

IBM PC Institute



*Personal Systems Reference*  
*IBM ThinkPad Notebooks*  
*1992 to 2001 - withdrawn*

*January 2001 - Version 214*



# IBM ThinkPad® 240 - withdrawn

IBM® ThinkPad®																																																																																																																																																																																														
Processor	Intel® Mobile Celeron™ 300, 366, or 400MHz <sup>1</sup> / 66MHz system bus																																																																																																																																																																																													
Processor features	No upgrade / processor on Ball Grid Array (H-PBGA)																																																																																																																																																																																													
L2 cache	128KB / onboard (full speed) / synchronous pipelined burst / ECC / write-back																																																																																																																																																																																													
Diskette drive	External 3.5" 1.44MB / connects to left side with FDD port / includes case and cable																																																																																																																																																																																													
CD-ROM	Option: External CD-ROM / via Portable Drive Bay and 24X-10X <sup>5</sup> CD-ROM UltraslimBay Drive																																																																																																																																																																																													
DVD-ROM	Option: External DVD-ROM / via Portable Drive Bay and DVD-ROM UltraslimBay Drive																																																																																																																																																																																													
Type-model	≈ 2609-21U																																																																																																																																																																																													
Processor	Celeron 300MHz																																																																																																																																																																																													
Disk - size / ms	6.4GB <sup>4</sup> / 13ms read / Ultra DMA/33 or PIO Mode 4																																																																																																																																																																																													
Preload (see side)	Windows 98 <sup>7</sup>																																																																																																																																																																																													
Avail / withdrawn date	June 1999 / February 2000																																																																																																																																																																																													
Type-model	≈ 2609-31U																																																																																																																																																																																													
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Type-model	≈ 2609-41U																																																																																																																																																																																													
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Disk - size / ms	12.0GB / 12ms read / ATA-66 or PIO4																																																																																																																																																																																													
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Display - size and type	10.4" TFT color (264.16mm) / Active Matrix																																																																																																																																																																																													
Display - technology	SVGA / 800x600 / 15ms refresh (typical) / 50 to 110 nits 16.7 million simultaneous colors / 250 to 1 contrast (typical)																																																																																																																																																																																													
Graphics - controller	NeoMagic™ MagicMedia128XD™ (NM2160C) / 128-bit accelerator / DDC2B / 2MB / SGRAM (embedded) / color space conversion																																																																																																																																																																																													
Graphics - features	Simultaneous LCD and CRT <sup>26</sup> / 180 degree tilt / no multiple-monitor support / ext SVGA to 1024x768 with 65,536 colors																																																																																																																																																																																													
Memory - std / max	64MB / 192MB <sup>33</sup>																																																																																																																																																																																													
Memory - features	SDRAM / non-parity / 66MHz / 3.3 volt / 64-bit 1 available socket for JEDEC 144-pin SO DIMM / std memory soldered to motherboard / socket accessed by removing three screws and keyboard																																																																																																																																																																																													
Disk controller / disk	EIDE / PCI 2.1 / supports one internal disk / customer can remove disk for upgrade (by removing three screws on base)																																																																																																																																																																																													
Keyboard	Keyboard palm rest / 95% size of current standard ThinkPad keyboards / 18mm key pitch																																																																																																																																																																																													
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / sensitivity / spare caps																																																																																																																																																																																													
Dimensions	10.2 x 8.0 x 1.05" (86 cubic inches) / 260mm x 202mm x 26.6mm																																																																																																																																																																																													
Weight <sup>2</sup>	Approximately 2.98 lbs (1.35 kg) with battery and disk																																																																																																																																																																																													
Case material	IBM ThinkPad UltraCarbon™ casing / Top: carbon-fiber reinforced plastic; Bottom: glass-fiber reinforced plastic																																																																																																																																																																																													
Battery - type	Li-Ion (3 cell) / intelligent / left side																																																																																																																																																																																													
Battery - life <sup>10</sup>	21U: 1.9 hrs 31U: 1.8 hrs 41U: 1.7 hrs Optional 6 cell battery 3.8 hrs (21U) or 3.6 hrs (31U) or 3.4 hrs (41U)																																																																																																																																																																																													
Charge time <sup>10</sup>	3.5 hrs on / 3.0 hrs off																																																																																																																																																																																													
Architecture	Intel 440DX PCIset / Intel 82371EB PIIX4M (EIDE, PCI to ISA bridge, USB) Texas Instruments® TI1211 PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)																																																																																																																																																																																													
Docking station	None																																																																																																																																																																																													
Port replicator	None (all standard ports already on back of system)																																																																																																																																																																																													
PC Card Std slots	1 Type I or 1 Type II / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video support																																																																																																																																																																																													
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)																																																																																																																																																																																													
Other features	APM-aware BIOS / Ultraslim AC adapter, barrel, 3-prong, 56 watts																																																																																																																																																																																													
Video (TV) out	None																																																																																																																																																																																													
MPEG decoder	None (software support for MPEG-1 in Windows 98)																																																																																																																																																																																													
Data/fax modem	56K <sup>37</sup> V.90 / integrated in system / Mini PCI Type IIIb / Lucent 1646 / not voice-capable																																																																																																																																																																																													
Audio	16-bit SoundBlaster Pro™ support / ESS 1946 / PCI / full duplex																																																																																																																																																																																													
Speaker	One internal speaker (.5 watt)																																																																																																																																																																																													
Audio features	Internal microphone / Fn+Insert and Fn+Delete volume control with mute																																																																																																																																																																																													
Audio in/out jacks	Microphone jack (mono) / headphone jack (stereo) / line-in jack (stereo)																																																																																																																																																																																													
Infrared ports	Infrared port on right side / IrDA 1.1 compatible / up to 4Mbps																																																																																																																																																																																													
Security	Power-on password / setup password / disk password / security keyhole																																																																																																																																																																																													
Limited warranty <sup>11</sup>	1 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)																																																																																																																																																																																													
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date																																																																																																																																																																																													
<table border="1"> <thead> <tr> <th>Color depth</th> <th>LCD</th> <th colspan="4">External Monitor</th> <th colspan="2">OPTIONS</th> <th>FEATURES</th> </tr> <tr> <th>Resolution</th> <th>TFT</th> <th>60Hz</th> <th>70Hz</th> <th>75Hz</th> <th>85Hz</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>640x480</td> <td>16M</td> <td>16M</td> <td>--</td> <td>16M</td> <td>16M</td> <td>- 32MB SO DIMM 3.3v NP SDRAM</td> <td>76H0294</td> <td>Wired for Management 1.1a compliant</td> </tr> <tr> <td>800x600</td> <td>16M</td> <td>16M</td> <td>--</td> <td>16M</td> <td>16M</td> <td>- 64MB SO DIMM 3.3v NP SDRAM</td> <td>20L0241</td> <td>DMI 2.0 compliant</td> </tr> <tr> <td>1024x768*</td> <td>64K</td> <td>64K</td> <td>64K</td> <td>64K</td> <td>--</td> <td>- 128MB SO DIMM 3.3v NP SDRAM</td> <td>01K1150</td> <td>PC 98 compliant</td> </tr> <tr> <td>1280x1024</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>--</td> <td>- 12GB disk, 12ms read, ATA-66</td> <td>05K9245</td> <td>ACPI ready (APM enabled)</td> </tr> <tr> <td colspan="6">* Virtual screen mode on 10.4" LCD</td> <td>- High-capacity 6-cell Li-Ion Battery</td> <td>02K6580</td> <td>Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card</td> </tr> <tr> <td colspan="6">All models:</td> <td>- Ultraslim 56 watt AC Adapter (3-prong)</td> <td>02K6545</td> <td>System Status Indicators</td> </tr> <tr> <td colspan="6">- C: drive is FAT16 of 2GB</td> <td>- V.90 PC Card Modem with XJACK<sup>24</sup></td> <td>10L7393</td> <td>Reset switch on bottom</td> </tr> <tr> <td colspan="6">- D: drive is FAT32 of remaining space</td> <td>- V.90 56K PC Card Modem with Cellular Capability<sup>24</sup></td> <td>02K4196</td> <td>Plug and Play 1.0a</td> </tr> <tr> <td colspan="6">Pressing F1 during startup brings up IBM BIOS Setup Utility</td> <td>- 10/100 Ethernet CardBus PC Card</td> <td>08L3147</td> <td>Standby, suspend, redisafe, and hibernation modes</td> </tr> <tr> <td colspan="6">- ThinkPad Proven™ solutions<sup>12</sup> (visit www.ibm.com/pc/us/thinkpad/proven)</td> <td>- 10/100 EtherJet plus 56K modem<sup>37</sup></td> <td>08L3167</td> <td>ENERGY STAR compliant</td> </tr> <tr> <td colspan="6"></td> <td>- Turbo 16/4 Token-Ring PC Card II</td> <td>34L1401</td> <td>International Warranty Service<sup>14</sup></td> </tr> <tr> <td colspan="6"></td> <td>- Smart Card Security Kit</td> <td>33L5075</td> <td>IBM SystemXtra<sup>35</sup></td> </tr> <tr> <td colspan="6"></td> <td>- IBM Portable Drive Bay (UltraslimBay)</td> <td>37L1511</td> <td>24 hour / 7 day<sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</td> </tr> <tr> <td colspan="6"></td> <td>- Zip 100MB UltraslimBay Drive</td> <td>37L1507</td> <td></td> </tr> <tr> <td colspan="6"></td> <td>- SuperDisk LS-120 UltraslimBay Drive</td> <td>20L1929</td> <td></td> </tr> <tr> <td colspan="6"></td> <td>- DVD-ROM UltraslimBay Drive</td> <td>05K8890</td> <td></td> </tr> <tr> <td 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Indicators	- C: drive is FAT16 of 2GB						- V.90 PC Card Modem with XJACK <sup>24</sup>	10L7393	Reset switch on bottom	- D: drive is FAT32 of remaining space						- V.90 56K PC Card Modem with Cellular Capability <sup>24</sup>	02K4196	Plug and Play 1.0a	Pressing F1 during startup brings up IBM BIOS Setup Utility						- 10/100 Ethernet CardBus PC Card	08L3147	Standby, suspend, redisafe, and hibernation modes	- ThinkPad Proven™ solutions <sup>12</sup> (visit www.ibm.com/pc/us/thinkpad/proven)						- 10/100 EtherJet plus 56K modem <sup>37</sup>	08L3167	ENERGY STAR compliant							- Turbo 16/4 Token-Ring PC Card II	34L1401	International Warranty Service <sup>14</sup>							- Smart Card Security Kit	33L5075	IBM SystemXtra <sup>35</sup>							- IBM Portable Drive Bay (UltraslimBay)	37L1511	24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support							- Zip 100MB UltraslimBay Drive	37L1507								- SuperDisk LS-120 UltraslimBay 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<p><b>WINDOWS 98 PRELOAD<sup>16</sup></b></p> <ul style="list-style-type: none"> <li>- Microsoft® Windows® 98 (Model 21U) or Microsoft® Windows® 98 Second Edition (Model 31U and 41U)</li> <li>• Online User's Guide</li> <li>• ThinkPad Configuration Program</li> <li>• ThinkPad Utilities</li> <li>• ThinkPad on the Net</li> <li>• Access ThinkPad</li> <li>• IBM Update Connector</li> <li>• RingCentral Fax</li> <li>• IBM Registration</li> <li>• IBM Global Network Dialer</li> <li>• Netscape Communicator</li> <li>• PC-Doctor</li> <li>• ConfigSafe®</li> <li>• Norton AntiVirus™ (OEM Version)</li> <li>• Universal Management Services (web)</li> <li>✦ Software Selections CD</li> <li>✦ Lotus® SmartSuite Millennium CD</li> <li>✦ Recovery CD-ROM (Windows 98)</li> <li>✦ Recovery CD-ROM (Windows 95)<sup>7</sup></li> </ul> <p>Disks are S.M.A.R.T.<sup>29</sup> compliant</p>																																																																																																																																																																																														

# IBM ThinkPad® 240X - withdrawn

<b>IBM® ThinkPad®</b>				
Processor	<b>Intel® Mobile Celeron™ 450MHz<sup>1</sup> or Intel Mobile Pentium® III 500MHz / 100MHz system bus</b>			
L2 cache	<i>Celeron: 128KB / onboard (at processor speed); Pentium III: 256KB / onboard (at processor speed)</i>			
Diskette drive	External 3.5" 1.44MB / connects to left side with FDD port / includes case and cable			
CD-ROM	<i>Option: External via USB port or via Portable Drive Bay 2000 and 24X-10X<sup>5</sup> CD-ROM Ultrabay 2000 Drive</i>			
LS-120 and CD-RW	<i>Option: External via Portable Drive Bay 2000 and drive option / no support for DVD in the Portable Drive Bay</i>			
Type-model	<b>2609-51U</b>	<b>2609-52U</b>	<b>2609-61U</b>	<b>2609-62U</b>
Processor	<b>Celeron 450MHz</b>	<b>Celeron 450MHz</b>	<b>Pentium III 500MHz</b>	<b>Pentium III 500MHz</b>
Disk - size / ms	<b>6.0GB<sup>2</sup> / 13ms read / Ultra DMA/33 or PIO Mode 4</b>		<b>12.0GB / 12ms read / ATA-66 or PIO4</b>	
Preload (see side)	<b>Windows 98<sup>7</sup> SE</b>	<b>Windows 2000</b>	<b>Windows 98<sup>7</sup> SE</b>	<b>Windows 2000</b>
Available date	June 2000	June 2000	June 2000	June 2000
Display - size and type	<b>10.4" TFT color (264.16mm) / Active Matrix</b>			
Display - technology	<b>SVGA / 800x600 / 15ms refresh (typical) / 50 to 110 nits</b> 16.7 million simultaneous colors / 150 to 1 contrast (typical)			
Graphics - controller	<b>Silicon Motion® Lynx EM+ SM712G™ / DDC2B / 2MB / SGRAM (embedded) / color space conversion / multiple monitor support<sup>26</sup> for Windows 98</b>			
Graphics - features	Simultaneous LCD and CRT <sup>26</sup> / 180 degree tilt / external SVGA to 1024x768 with 65,536 colors			
Memory - std / max	<b>64MB / 192MB<sup>33</sup></b>			
Memory - features	SDRAM / non-parity / <b>100MHz</b> / 3.3 volt / 64-bit 1 available socket for JEDEC 144-pin SO DIMM / std memory soldered to motherboard / socket accessed by removing three screws and keyboard			
Disk controller / disk	EIDE / PCI 2.1 / supports one internal disk / customer can remove disk for upgrade (by removing three screws on base)			
Keyboard	Keyboard palm rest / 95% size of current standard ThinkPad keyboards / 18mm key pitch			
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / sensitivity / spare caps			
Dimensions	10.2 x 8.0 x 1.05" (86 cubic inches) / 260mm x 202mm x 26.6mm			
Weight <sup>2</sup>	51U/52U: approximately 2.98 lbs (1.35 kg) with battery and disk 61U/62U: approximately 3.28 lbs (1.49 kg) with battery and disk			
Case material	IBM ThinkPad UltraCarbon™ casing / Top: carbon-fiber reinforced plastic; Bottom: glass-fiber reinforced plastic			
Battery - type	51U/52U: Li-Ion (3 cell); 61U/62U: Li-Ion (6 cell); All: intelligent / left side			
Battery - life <sup>10</sup>	51U/52U: 2.1 hrs      61U/62U: 4.2 hrs 51U/52U: Optional 6 cell battery for 4.2 hrs			
Charge time <sup>10</sup>	3.5 hrs on / 3.0 hrs off			
Architecture	<b>Intel 440MX PCiset (82443MX)</b> / combines Host Bridge and PIIX4 in single chip / TI1211 PCMCIA controller / NS PC97338 (FDC, IR, I/O) / PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)			
Docking station	None			
Port replicator	None (all standard ports already on back of system)			
PC Card Std slots	1 Type II or 1 Type I / CardBus 32-bit / PCMCIA 2.1 / no Zoomed Video support			
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	72 watt AC adapter			
Video (TV) out	None			
Data/fax modem	<b>56K<sup>37</sup> V.90 / Mini PCI Type IIIb / Lucent 1646</b>			
Audio	16-bit SoundBlaster Pro™ support / CS4281 PCI audio / CS4297A AC97 codec			
Speaker	One internal speaker (.5 watt)			
Audio features	Internal microphone / Fn+Insert and Fn+Delete volume control with mute			
Audio in/out jacks	Microphone jack (mono) / headphone jack (stereo) / line-in jack (stereo)			
Infrared ports	Infrared port on right side / IrDA 1.1 compatible / up to 4Mbps			
Security	Power-on password / setup password / disk password / security keyhole			
Limited warranty <sup>11</sup>	<b>1 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)			
Service options <sup>15</sup>	Service upgrades available based on specific ThinkPad purchased			

### WINDOWS 98 PRELOAD<sup>16</sup>

- Microsoft® Windows® 98 Second Edition
- Online User's Guide
- ThinkPad Configuration Program
- ThinkPad Utilities
- Access ThinkPad
- IBM Update Connector
- PC-Doctor
- ConfigSafe®
- Norton AntiVirus™ (OEM Version)
- Universal Manageability Services (web)
- ◆ Software Selections CD
- ◆ Lotus® SmartSuite® Millennium CD
- ◆ Recovery CD-ROM (Windows 98)
- ◆ Recovery CD-ROM (Windows 95)<sup>7</sup>

### WINDOWS 2000 PRELOAD<sup>16</sup>

- Windows 2000® Professional
- ThinkPad Utilities
- Online User's Guide
- ThinkPad Configuration Program
- PC-Doctor
- ConfigSafe
- Norton AntiVirus™ (OEM Version)
- IBM Update Connector
- Universal Manageability Services (web)
- ◆ Software Selections CD
- ◆ Lotus® SmartSuite® Millennium CD
- ◆ Recovery CD-ROM (Windows 2000)
- ◆ Recovery CD-ROM (Windows NT)<sup>40</sup>

Color depth LCD		External Monitor				OPTIONS				FEATURES
Resolution	TFT	60Hz	70Hz	75Hz	85Hz					
640x480	16M	16M	--	16M	16M	- 32MB SO DIMM 100MHz NP SDRAM	20L0253			Toll-free hardware support during the warranty period Personalized web-based support Wired for Management 1.1a compliant DMI 2.0-compliant PC 99-compliant ACPI ready (APM enabled) Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card System Status Indicators Reset switch on bottom Plug and Play 1.0a Standby, suspend, redisafe, and hibernation modes ENERGY STAR compliant International Warranty Service <sup>14</sup> IBM SystemXtra®. <sup>35</sup> 24 hour / 7 day <sup>30</sup> telephone, fax, electronic, and Internet (www.ibm.com/pc/us) support
800x600	16M	16M	--	16M	16M	- 64MB SO DIMM 100MHz NP SDRAM	20L0254			
1024x768*	64K	64K	64K	64K	--	- 128MB SO DIMM 100MHz NP SDRAM	20L0255			
1280x1024	--	--	--	--	--	- 12GB disk, 12ms read, ATA-66	05K9245			
						- High capacity 6-cell Li-Ion Battery	02K6580			
* Virtual screen mode on 10.4" LCD						- Ultraslim 72 watt AC Adapter	02K6699			
All models:						- DC Auto Adapter	02K3381			
- C: drive is FAT16 of 2GB						- V.90 56K Intern Modem with GSM	02K4280			
- D: drive is FAT32 of remaining space						- 10/100 EtherJet™ CardBus Adapter	34L5301			
Pressing F1 during startup brings up IBM BIOS Setup Utility						- IBM 16/4 Token-Ring CardBus Adap	34L4801			
Disks are S.M.A.R.T. <sup>29</sup> compliant						- Smart Card Security Kit	33L5075			
						- IBM Portable Drive Bay 2000	19K4480			
						- IBM MultiPort USB Hub	00N8215			
						- IBM 340MB microdrive	00N8073			
						- IBM USB Portable CD-ROM Drive	33L5151			
						- IBM USB Mobile Mouse	33L3243			
						- IBM USB Numeric Keypad	33L3225			
- ThinkPad Proven™ solutions <sup>12</sup> (visit <a href="http://www.ibm.com/pc/us/thinkpad/proven">www.ibm.com/pc/us/thinkpad/proven</a> )										

# IBM ThinkPad 300, 500, 700, 700C - withdrawn

IBM® ThinkPad®:	⩾ 300 monochrome	⩾ 500 sub-notebook	⩾ 700 monochrome	⩾ 700C color TFT
Processor type	<b>80386 SL</b>	<b>80486 SLC2</b>	<b>80486 SLC</b> <input checked="" type="checkbox"/>	<b>80486 SLC</b> <input checked="" type="checkbox"/>
Processor speed	<b>25 MHz</b>	<b>50/25 MHz</b>	<b>25 MHz</b>	<b>25 MHz</b>
Memory cache	64 KB external	16 KB internal	16 KB internal	16 KB internal
Coprocessor socket	Yes (for 387 SL)	No	Yes (for 387 SL)	Yes (for 387 SL)
Diskette drive	3.5" 1.44 MB	<b>External</b> 3.5" 1.44 MB	3.5" 1.44 MB	3.5" 1.44 MB
Price (retail USD)	\$ 1,999	\$ 1,999	\$ 2,750	\$ 4,350
Type - model	2615-065	2603-081	9552-300	9552-30B
Hard drive - size	<b>80 MB</b> <input checked="" type="checkbox"/> <b>120 MB</b>	<b>85 MB</b>	<b>82 MB</b> <input checked="" type="checkbox"/> <b>122 MB</b> <input checked="" type="checkbox"/>	<b>120 MB</b> <input checked="" type="checkbox"/>
Hard drive - speed	19 ms	15 ms	17 ms <input type="radio"/>	17 ms <input type="radio"/>
Available date	Oct 92	June 93	Oct 92	Oct 92
Withdrawal date	Oct 93	Dec 93	Oct 93	Oct 93
Display - type	VGA mono <input checked="" type="checkbox"/>	VGA mono	VGA mono <input checked="" type="checkbox"/>	<b>VGA color</b>
Display - grey scales	64 grey scales <input checked="" type="checkbox"/>	64 grey scales	64 grey scales <input checked="" type="checkbox"/>	256 colors 640x480
Display - technology	STN <input checked="" type="checkbox"/>	STN	STN <input checked="" type="checkbox"/>	Thin film transistor
Display - light source	LCD - Side-lit <input checked="" type="checkbox"/>	LCD - backlit	LCD - backlit <input checked="" type="checkbox"/>	Active matrix
Display - size (diag)	9.5 inch <input checked="" type="checkbox"/>	7.4 inch	9.5 inch <input checked="" type="checkbox"/>	10.4 inch
Display - contrast ratio	13 to 1 <input checked="" type="checkbox"/>	18 to 1	18 to 1 <input checked="" type="checkbox"/>	100 to 1
180 degree display tilt	Yes	Yes (external SVGA)	Yes	Yes
Memory - std / max	4 / 12 MB 80 ns	4 / 12 MB 80 ns	4 / 16 MB 80 ns	4 / 16 MB 80 ns
Mem - sockets empty	2 sockets (parity)	1 socket (non-parity)	2 sockets (parity)	2 sockets (parity)
SIMM/ICs available	2, 8 MB SIMMs	4, 8 MB ICs (3.3 volt)	2, 4, 8 MB ICs	2, 4, 8 MB ICs
Keyboard / # of keys	Full size alp/num/ 82	90% size alp/num/ 81	Full size alp/num/ 84	Full size alp/num/84
Fn key functions	Yes (back panel)	11 (in any appl)	None	None
Keyboard slope	Miniature (option)	No	8 degrees (legs)	8 degrees (legs)
Mouse/pointing	Yes	<b>TrackPoint II™</b>	<b>TrackPoint II</b>	<b>TrackPoint II</b>
Ext keyboard support	12 (in any appl)	No	Yes (with opt cable)	Yes (with opt cable)
Dimensions	12.1 x 8.5 x 1.7"	10.1 x 7.2 x 1.6"	11.7 x 8.3 x 1.9"	11.7 x 8.3 x 2.2"
Cubic inches	175 inches	116 inches	185 inches	214 inches
Carrying case	Blk nylon (option)	Blk nylon (option)	Blk nylon (option)	Blk nylon (option)
Color	Charcoal grey	Black	Black	Black
Weight (with battery)	5.9 pounds	3.8 pounds	6.5 pounds	7.6 pounds
Battery - type	Nickel hydride	<b>Sealed lead acid</b>	Nickel hydride	Nickel hydride
Batt - life (per battery)	3 to 10 hours	3 to 9 hours	3.8 to 7.5 hours	2 to 4 hours
Charge time - on / off	10 hrs / 2 hrs	2.5 hrs / 1.2 hrs	3 hrs / 2 hrs	1.5 hrs / 1.4 hrs
Battery - options	None	Nickel hydrid (\$49)	Yes - status indicator	Yes - status indicator
Architecture	AT bus	AT bus	Micro Channel®	Micro Channel
External AT/MCA port	No	No	Yes	Yes
Comm Ctrrdge (1 card)	No (fast parallel)	No	Yes (black)	Yes (black)
Docking Station	No	No	Yes (3550-002) blk	Yes (3550-002) blk
Port replicator	Yes	No	Yes (black)	Yes (black)
Modem/serial slot	None	No	Yes	Yes
PCMCIA 2.01 slots	Modem only	<b>1 Type I or 1 Type II</b>	None	None
Visible LEDs - closed	Yes - batt charge	Yes	Yes	Yes
Serial / parallel ports	Yes / Yes (EPP)	Yes (cable) / Yes (EPP)	Yes / Yes (DMA)	Yes / Yes (DMA)
APM-aware BIOS	APM-aware BIOS	APM-aware BIOS	APM-aware BIOS	APM-aware BIOS
Other features	Hrdw security loop	Hibernation mode	Hrdw security loop	Hrdw security loop
Preinstalled software	None	DOS 5.02, PRODIGY®	DOS 5.02, PRODIGY	DOS 5.02, PRODIGY
Warranty	1 year - carry in or EasyServ (opt onsite)	1 year - carry in or EasyServ (opt onsite)	<b>3 year</b> - carry in or EasyServ (opt onsite)	<b>3 year</b> - carry in or EasyServ (opt onsite)

The 700/720 family hard disks, batteries, and docking station are NOT compatible with 360, 750, 755. The 700/720 memory IS compatible with 360, 750, 755.

## FEATURES OF 500

**Most powerful sub-notebook** with 486SLC2  
**Lightweight 3.8 pounds**  
**Hibernation mode** saves memory to the hard drive and shuts system off  
 External VGA is SVGA (to 800 x 600)  
 Std external floppy (9 oz) plugs into back  
 Personalized nameplate in molded indentation  
**Coupon book with \$4,000 in savings**  
 Self charging battery with **integrated wall plug** and **no memory effect** (081, 171)

*ThinkPad 500 models 081 and 171 withdrawn due to problems with the sealed lead acid battery and replaced by models 08N and 17N with a nickel hydride battery*

## FEATURES OF 300

Upgradeable to TFT active color; 8.4"  
 Ethernet on planar for 10baseT, 10base2  
 Upgradeable to 120 MB (80 MB version)  
 External VGA is SVGA (to 1024 x 768)  
 2 level password security  
 Hot key setup in any application  
 Standby mode and rest mode  
 Rest mode lasts up to 2 weeks

## FEATURES OF 700/700C and 720/720C

**3 year international warranty**  
**700/720 mono upgradeable to TFT color**  
**700/700C upgradeable to 486SLC2 50/25**  
**Upgradeable to 120, 160, 240, or 340 MB**  
**Removable hard disk**  
**Pressure activated TrackPoint II**  
 Optional battery w/ power status indicators  
 Quick Charger holds 2 batt; discharge button  
**Coupon book with \$4,000 in savings**

## FEATURES OF ALL PRODUCTS

Suspend/resume mode; battery life indicator  
 Non-disruptive battery exchange  
 Simultaneous LCD and external CRT  
 US EPA Energy Star compliant  
**International warranty**

**IBM or dealer warranty/service**  
**30 day money back guarantee**  
**24 hour / 7 day fax support**  
**24 hour / 7 day bulletin board support**  
**24 hour / 7 day telephone support at 1-800-772-2227**

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight).  
 STN = Super twisted nematic;  = Upgradeable;  = Removable; ⩾ = Withdrawn

All trademarks are the property of their respective owners  
 No warranties are expressed or implied in this summary  
 (1THINKW) Compiled by Roger Dodson, IBM, May 1994

# IBM ThinkPad 310 (EMEA) - withdrawn

IBM® ThinkPad®:	⌘ 310	⌘ 310	⌘ 310D
	11.3" Dual Scan SVGA color	11.3" TFT SVGA color	11.3" Dual Scan SVGA color / 10 x CD-ROM
Processor type	<b>Pentium® 133/66 MHz</b> (P54CSLM) / 64 bit to transfers to L2 cache and memory		
Processor upgrade	None		
L2 cache	<b>256 KB</b> / write-back / direct mapped / 7 ns / synchronous pipelined burst		
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
Diskette drive	Internal 3.5" 1.44 MB (on left side)		
CD-ROM drive	External 3.5" 1.44 MB (connect to rear)		
Code name	<b>None</b> (upgrade available)	<b>None</b> (upgrade available)	<b>10 x CD-ROM</b> / bootable(left side) / CAV
Price			
Type - model	<b>2600-100</b>	<b>2600-300</b>	<b>2600-200</b>
Preload (see side)	<b>Windows 95 OSR2</b>		
Avail / withdrawn date	June 1997 / January 1998		
Disk - size / ms	<b>1.08GB</b> / 13ms read; 14ms write / PIO Mode 4		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	<b>11.3" Dual Scan SVGA color</b>	<b>11.3" TFT SVGA color</b>	<b>11.3" Dual Scan SVGA color</b>
Display - technology	11.3" SVGA color / 640x480 or 800x600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		11.3" SVGA color / 640x480 or 800x600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024x768 with 256 colors		
Memory - std / max	<b>16MB</b> / 64MB / one 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60 ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard		
Pointing device	TrackPoint III™ / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 1.9" (198 cubic inches)		
Weight	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	7.0 lbs (3.2 kg)
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Battery - life	2.5 hours		
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs / no non-disruptive battery exchange		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 <b>CardBus 32-bit PCI / Zoomed Video support in lower slot</b>		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	<b>16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715</b> Internal stereo speakers / .5 watt / Fn key volume control		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ Diskette and disk write protect and disable / Locking device keyhole on back (Kensington™ cable lock)		
Preinstalled software	Windows 95 with applications (listed on right)		
Warranty	<b>1 year</b> - carry-in		
BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.	Compatible in ThinkPad 310 family:		
Fn + F1 = Hot key help	- 2.1GB HDD 13/14 ms (user upgradeable)	11J8643	
Fn + F2 = Brightness/contrast	- NiMH Battery	11J8639	
Fn + arrows = Adjust brightness/contrast	- AC Adapter, 3 prong w/o power cord	11J8699	
Fn + F3 = LCD/CRT/Simultaneous	- AC Adapter, 3 prong with US power cord	11J8702	
Fn + F4 = Fuel gauge	- 8MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8635	
Fn + F5 = Audio volume	- 16MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8636	
Fn + arrows = Adjust volume	- 32MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8637	
Fn + F6 = Power mgmt and system info	- 10 x CD-ROM w/ external FDD/cable (dealer installable only)	11J8676	
Fn + F7 = Standby	- PCMCIA 28.8Kbps International	42H4319	
Fn + F8 = Hibernation			
Fn + Esc = Close Hot key icon			
			<p><b>WINDOWS 95 PRELOAD</b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 95 OSR2 (FAT16)</li> <li>- Notebook Manager</li> <li>- PhoenixCard Manager</li> <li>- (no diskette factory)</li> <li>1. IBM Anti-Virus</li> <li>2. IntelliQuest Registration Mailer</li> <li>3. ThinkPad Customization Icon</li> <li>- Lotus SmartSuite CD-ROM</li> <li>- Recovery CD-ROM with boot diskette</li> <li>- Windows 95 CD-ROM (no installation)</li> </ul> <p>Disk is not removable, but it can be upgraded via a dealer or service center (not customer installable).</p> <p>System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.</p> <p><b>FEATURES OF 310 MODELS</b></p> <p>Plug and Play 1.0a Standby and hibernation modes Color LED indicator US EPA Energy Star compliant Personalized nameplate indentation <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b></p>

# IBM ThinkPad® 310E and 310ED (EMEA) - withdrawn

IBM® ThinkPad®:	310E	310E	310ED
Processor type	12.1" Dual Scan SVGA color	11.3" TFT SVGA color	12.1" Dual Scan SVGA color / 10X CD-ROM
Processor upgrade	<b>Pentium® MMX™ 133/66MHz<sup>1</sup>   Pentium MMX 150/60MHz   Pentium MMX 133/66MHz</b>		
Processor features	None		
L2 cache	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory		
External FDD port	<b>256KB</b> / write-back / direct mapped / 7ns / synchronous pipelined burst		
Diskette drive	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
CD-ROM drive	Internal 3.5" 1.44MB (on left side)		External 3.5" 1.44MB (connect to rear)
Code name	<b>None</b> (upgrade available)		<b>10X<sup>6</sup> CD-ROM</b> / bootable (left side) / CAV
Price	LaCrosse-2		LaCrosse-2
Type - model	<b>2600-400</b>	<b>2600-600</b>	<b>2600-500</b>
Preload (see side)	<b>Windows 95 OSR2</b>		
Avail / withdrawn date	November 1997 / July 1998		
Disk - size / ms	<b>1.6GB<sup>4</sup></b> / 13ms read; 14ms write / PIO Mode 4 / SMART		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	<b>12.1" Dual Scan SVGA color</b>	<b>11.3" TFT SVGA color</b>	<b>12.1" Dual Scan SVGA color</b>
Display - technology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		11.3" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator / 1MB EDO DRAM / 70ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024x768 with 256 colors		
Memory - std / max	<b>16MB</b> / 64MB / one 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no slope) / no liftup keyboard		
Pointing device	TrackPoint® III / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 49 mm		
Weight <sup>2</sup>	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	7.1 lbs (3.2 kg)
Battery - life	3.0 hours	3.5 hours	3.0 hours
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange		
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 <b>CardBus 32-bit PCI / Zoomed Video support in lower slot</b>		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	<b>16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715</b> Internal stereo speakers / .5 watt / Fn key volume control		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ diskette and disk write protect and disable / security keyhole / electronic personalization		
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)		
Limited warranty <sup>11</sup>	<b>1 year</b> - carry-in		
BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.	<b>OPTIONS</b>		
Fn + F1 = Hot key help	- 2.1GB disk, 13/14ms (user upgradeable)	11J8643	<p>System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.</p> <p>No suspend mode; has standby and hibernation mode</p> <p style="text-align: center;"><b>FEATURES</b></p> <p>Plug and Play 1.0a Standby and hibernation modes Color LED indicator ENERGY STAR compliant Personalized nameplate indentation <b>International Warranty Service<sup>14</sup></b> <b>IBM SystemXtra™</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b> <b>IBM and dealer warranty/service</b></p>
Fn + F2 = Brightness/contrast	- 3.2GB disk, 13/14ms (user upgradeable)	05K8864	
Fn + arrows = Adjust brightness/contrast	- NiMH Battery	11J8639	
Fn + F3 = LCD/CRT/Simultaneous	- AC Adapter, 3 prong without power cord	11J8699	
Fn + F4 = Fuel gauge	- 16MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8636	
Fn + F5 = Audio volume	- 32MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8637	
Fn + arrows = Adjust volume	- 10X CD-ROM w/ external FDD/cable (dealer installable only)	11J8676	
Fn + F6 = Power mgmt and system info	- 20X-8X Portable CD-ROM	1969010	
Fn + F7 = Standby	- 20X-8X Portable Stereo CD-ROM	1969011	
Fn + F8 = Hibernation	- PCMCIA 33.6Kbps International Data/Fax	42H4319	
Fn + Esc = Close Hot key icon	- PCMCIA 33.6Kbps Modem w/ XJACK	55H6759	

# IBM ThinkPad® 310E and 310ED (EMEA) - Spring 1998 - withdrawn

IBM® ThinkPad®:	310E	310E	310ED
Processor type	12.1" Dual Scan SVGA color	12.1" TFT SVGA color	12.1" Dual Scan SVGA color / CD-ROM
Processor upgrade	<b>Pentium® MMX™ 166/66MHz<sup>1</sup></b>		
Processor features	None		
L2 cache	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory		
External FDD port	<b>256KB</b> / write-back / direct mapped / 7ns / synchronous pipelined burst		
Diskette drive	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)		
CD-ROM drive	Internal 3.5" 1.44MB (on left side)	External 3.5" 1.44MB (connect to rear)	
Price	None (dealer upgrade available)		<b>20X-8X<sup>2</sup> x CD-ROM</b> / bootable (left side) / CAV
Type - model	<b>2600-A00</b>	<b>2600-C00</b>	<b>2600-B00</b>
Preload (see side)	<b>Windows 95 OSR2</b>		
Avail / withdrawn date	March 1998 / September 1998		
Disk - size / ms	<b>2.1GB<sup>4</sup></b> / 13ms read; 14ms write / PIO Mode 4 / SMART		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	<b>12.1" Dual Scan SVGA color</b>	<b>12.1" TFT SVGA color</b>	<b>12.1" Dual Scan SVGA color</b>
Display - technology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio		12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator		
Graphics - memory	1MB EDO DRAM / 70ns		
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion		
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support		
Graphics - external	External SVGA to 1024 x 768 with 256 colors		
Memory - std / max	<b>16MB</b> / 64MB	<b>32MB</b> / 64MB	
Memory - implement	One 16MB SO-DIMM is installed in one of two sockets		
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system		
Memory - upgrade	1 socket available for two JEDEC 144 pin EDO SO-DIMM of 16 or 32MB		
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)		
Keyboard slope	Large palm rest / keyboard remains flat (no sloop) / no liftup keyboard		
Pointing device	TrackPoint® III / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (no optional cable)		
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 50 mm		
Weight <sup>2</sup>	6.6 pounds (3.0 kg)	6.6 pounds (3.0 kg)	6.9 lbs (3.1 kg)
Battery - life	3.0 hours	2.8 hours	3.0 hours
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange		
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side		
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33 Mhz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PCI1131 CardBus (PCI)		
Docking Station	None		
Port replicator	None		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 <b>CardBus 32-bit PCI / Zoomed Video support in lower slot</b>		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	<b>16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715</b> Internal stereo speakers / .5 watt / Fn key volume control		
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)		
Telephone	None		
Infrared ports	None		
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility) / diskette and disk write protect and disable / security keyhole / electronic personalization		
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)		
Limited warranty <sup>11</sup>	<b>1 year</b> - carry-in		
BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.	<b>OPTIONS</b>		System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.
Fn + F1 = Hot key help	- 2.1GB disk 13/14ms (user upgradeable)	11J8643	No suspend mode; has standby and hibernation mode
Fn + F2 = Brightness/contrast	- 3.2GB disk 13/14ms (user upgradeable)	05K8864	
Fn + arrows = Adjust brightness/contrast	- NiMH Battery	11J8639	
Fn + F3 = LCD/CRT/Simultaneous	- AC Adapter, 3 prong without power cord	11J8699	
Fn + F4 = Fuel gauge	- 16MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8636	
Fn + F5 = Audio volume	- 32MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8637	
Fn + arrows = Adjust volume	- 10X CD-ROM w/ external FDD/cable (dealer installable only)	11J8676	
Fn + F6 = Power mgmt and system info	- 20X-8X CD-ROM w/ external FDD/cable (dealer installable only)	05K8867	
Fn + F7 = Standby	- 20X-8X Portable CD-ROM	1969010	
Fn + F8 = Hibernation	- 20X-8X Portable Stereo CD-ROM	1969011	
Fn + Esc = Close Hot key icon	- PCMCIA 33.6Kbps International Data/Fax	42H4319	
	- PCMCIA 33.6Kbps Modem w/ XJACK	55H6759	
			<b>FEATURES</b>
			Plug and Play 1.0a
			Standby and hibernation modes
			Color LED indicator
			ENERGY STAR compliant
			Personalized nameplate indentation
			<b>International Warranty Service<sup>14</sup></b>
			<b>IBM SystemXtra™</b>
			<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b>
			<b>IBM and dealer warranty/service</b>

# IBM ThinkPad® 310ED (Retail models) - withdrawn

IBM® ThinkPad®:	⌘ 310ED	⌘ 310ED
Processor type	<b>Pentium® MMX™ 133/66MHz<sup>1</sup></b>	<b>Pentium MMX 166/66MHz</b>
Processor upgrade	None	
Processor features	MMX technology / P55CLM / 64-bit to transfers to L2 cache and memory	
L2 cache	<b>256KB</b> / write-back / direct mapped / 7ns / synchronous pipelined burst	
External FDD port	External FDD port (works with standard external diskette on CD-ROM-based model; or use if upgrade to CD-ROM)	
Diskette drive	External 3.5" 1.44MB (connect to rear)	
CD-ROM drive	<b>10x<sup>5</sup> CD-ROM</b> / bootable (left side) / CAV	<b>20X-8X<sup>6</sup> CD-ROM</b> / bootable (left side) / CAV
Price		
Type - model	<b>2600-50U</b>	<b>2600-B0U</b>
UPC code	<b>087944375975</b>	<b>087944395997</b>
Preload (see side)	<b>Windows 95 OSR2</b>	Windows 95 OSR2.5
Avail / withdrawn date	November 1997 / May 1998	March 1998 / September 1998
Disk - size / ms	<b>1.6GB<sup>4</sup></b> / 13ms/14ms / PIO 4 / SMART	<b>2.1GB</b> / 13ms read; 14ms write / PIO Mode 4 / SMART
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	
Display - size and type	<b>12.1" Dual Scan SVGA color</b>	
Display - technology	12.1" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	
Graphics - controller	C&T™ 65550 HiQV32™ / 64-bit SVGA accelerator / 1MB EDO DRAM / 70ns	
Graph - arch/data path	PCI 2.1 / interpolation / color space conversion	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt / Zoomed Video support	
Graphics - external	External SVGA to 1024 x 768 with 256 colors	
Memory - std / max	<b>16MB</b> / 64MB / one SO-DIMM used	<b>32MB</b> / 64MB / one SO-DIMM used
Memory - features	60ns / non-parity / 3.3 volt / EDO / memory installed from bottom of system	
Memory - upgrade	1 socket available for JEDEC 144 pin EDO SO-DIMM of 8, 16, or 32MB	
Keyboard / # of keys	Full size alp/num / 85 keys (9 Fn key functions)	
Keyboard slope	Large palm rest / keyboard remains flat (no slope) / no liftup keyboard	
Pointing device	TrackPoint® III / no drag lock keys	
Palm rest	Integrated palm rest / external keyboard support (no optional cable)	
Dimensions	11.7 x 8.9 x 2.0" (208 cubic inches) / 298 mm x 227 mm x 50 mm	
Weight <sup>2</sup>	7.1 lbs (3.2 kg)	6.9 lbs (3.1 kg)
Battery - life	3.0 hours	
Charge time - on / off	3.5 to 10 hrs / 2.0 hrs / no non-disruptive battery exchange	
Battery - type	NiMH / non-intelligent / battery unique to 310 / insert from right side	
Architecture	ISA (audio, diskette, serial, parallel) / ALI® Aladdin III M1521/M1523 chipset PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA) NS PC87336VJG (diskette, serial, parallel) / TI PC11131 CardBus (PCI)	
Docking Station	None	
Port replicator	None	
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / PCMCIA 2.1 compatible / PC Card Standard 95 <b>CardBus 32-bit PCI / Zoomed Video support in lower slot</b>	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	Universal AC Adapter 3 prong (45 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / Acer® BIOS	
Video in/out	None	
Data/fax modem	None	<b>56Kbps PC Card modem</b> ActionTec® DataLink / K56flex™
Audio support	<b>16-bit audio chip / 18 voice MIDI FM synthesis / Yamaha YMF715</b> Internal stereo speakers / .5 watt / Fn key volume control	
Audio jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / stereo mic jack (3.5 mm)	
Telephone	None	
Infrared ports	None	
Security	Power-on password / Setup password (for Notebook Manager and BIOS Utility)/ diskette and disk write protect and disable / security keyhole / electronic personalization	
Preinstalled software	Microsoft® Windows® 95 with applications (listed on right)	
Limited warranty <sup>11</sup>	<b>1 year</b> - carry-in	
BIOS Utility is entered by holding F2 while the ThinkPad logo is displayed after power on.	<b>OPTIONS</b>	
Fn + F1 = Hot key help	- 2.1GB disk 13/14ms (user upgradeable)	11J8643
Fn + F2 = Brightness/contrast	- 3.2GB disk 12ms (user upgradeable)	05K8864
Fn + arrows = Adjust brightness/contrast	- NiMH Battery	11J8639
Fn + F3 = LCD/CRT/Simultaneous	- AC Adapter, 3 prong, US pwr cord, 45 wa	11J8702
Fn + F4 = Fuel gauge	- 16MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8636
Fn + F5 = Audio volume	- 32MB SO DIMM 3.3v NP EDO 64-bit, gold	11J8637
Fn + arrows = Adjust volume	- PCMCIA 33.6Kbps International Data/Fax	42H4319
Fn + F6 = Power mgmt and system info	- PCMCIA 33.6Kbps Modem w/ XJACK	55H6759
Fn + F7 = Standby	- 56K PC Card Modem Kit	04K0052
Fn + F8 = Hibernation		
Fn + Esc = Close Hot key icon		
	System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.	
	No suspend mode; has standby and hibernation mode	
	<b>FEATURES</b>	
	Plug and Play 1.0a	
	Standby and hibernation modes	
	Color LED indicator	
	ENERGY STAR compliant	
	Personalized nameplate indentation	
	Year 2000 ready	
	<b>International Warranty Service<sup>14</sup></b>	
	<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b>	
	<b>IBM and dealer warranty/service</b>	

⌘ = Withdrawn from marketing

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# IBM ThinkPad 345 (non-US) - withdrawn

<b>IBM® ThinkPad®:</b>	⊗ <b>345CS</b> dual scan color	⊗ <b>345C</b> TFT color	<b>ThinkPad 345 is a fast, lightweight, full function, TFT or dual scan color notebook at a very attractive price point</b>	
Processor type	<b>IntelDX4</b>		⊕ <b>Entry priced ThinkPad</b>	
Processor speed	<b>75/25 MHz / 3.3 volt</b>		⊕ <b>Large color 10.4" dual scan or TFT display</b>	
Memory cache	16 KB internal (no L2 cache)		⊕ <b>Fast IntelDX4 75/25 MHz</b>	
Coprocessor socket	Integrated in DX4		⊕ <b>Lightweight (5.2 or 5.5 pounds)</b>	
Processor / L2 upgrade	None		⊕ <b>TrackPoint III</b>	
Diskette drive	3.5" 1.44 MB (not removable)			
Removable CD-ROM	None			
Price	\$	\$	\$	\$
Type - model	2610-EYF	2610-EYG	2610-FYF	2610-FYG
IDE disk - size	<b>360 MB</b>	<b>540 MB</b>	<b>360 MB</b>	<b>540 MB</b>
Hard drive - speed	13 ms	13 ms	13 ms	13 ms
Avail / withdrawn date	Sep 1995 / Jan 1996		Sep 1995 / Apr 1996	
Display - type	<b>VGA color / 640 x 480</b>		<b>VGA color / 640 x 480</b>	
Display - colors	256 simultaneous colors		256 simultaneous colors	
Display - technology	<b>Dual Scan</b> - passive matrix		<b>Black Matrix TFT - active matrix</b>	
Display - diagonal size	<b>10.4 inch</b>		<b>10.4 inch</b>	
Display - contrast ratio	20 to 1		100 to 1	
180 degree display tilt	Yes		Yes	
Graphics - controller	WD90C24A Rev C with 1 MB DRAM			
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 60 Hz)			
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT			
Memory - std / max	4 MB / 20 MB 70 ns / non-parity / 5 volt		Memory upgraded via	
Mem - sockets empty	1 socket		1 open socket for IC DRAM	
Mem - options available	4, 8, 16 MB IC DRAM		memory card for 20 MB max	
Keyboard / # of keys	Full size alp/num / 85 keys / quiet keyboard			
Fn key functions	7 (in any appl)			
Keyboard slope	None			
Mouse/pointing	<b>TrackPoint III™</b> (no drag lock)			
Ext keyboard support	Yes (with optional cable)			
Dimensions	11.7 x 8.3 x 1.9"		11.7 x 8.3 x 2.0"	
Cubic inches	184 inches		194 inches	
Color	Black		Black	
Weight (with battery)	5.2 pounds		5.5 pounds	
Battery - type	Nickel hydride (NiMH) / non-intelligent			
Batt - life (per battery)	2.5 to 5 hours			
Charge time - on / off	2 hrs / 1.5 hr			
Architecture	AT bus (ISA)			
Docking Station	None			
Port replicator	None			
PCMCIA™ 2.1 slots	1 Type I or 1 Type II or 1 Type III			
Serial / parallel ports	Yes (one 9 pin) 16550A / Yes (EPP)			
Other features	APM-aware BIOS / Selectable boot AC adapter, 35 watts, worldwide, 3 pin, not wallmount			
Audio support	Audio beep only			
Security	Power-on password Locking device keyhole (Kensington™ MicroSaver™ cablelock)			
Preinstalled software	IBM DOS 7.0, Windows™ 3.11, and all appls listed to right:			
Warranty	1 year - ThinkPad EasyServ only			
Warranty options	None			

<p><b>PREINSTALLED APPLICATIONS</b></p> <ul style="list-style-type: none"> <li>- IBM PC DOS 7.0</li> <li>- Windows 3.11</li> <li>- IBM PC Card Director for PCMCIA</li> <li>- IBM ThinkPad Demo</li> <li>- ThinkPad features; Diskette Factory</li> <li>1. Lotus® cc:Mail, for the IBM Global® network,</li> <li>2. Lotus Organizer 1.12</li> <li>3. Lotus ScreenCam 1.0,</li> <li>4. Triton CoSession™ Host,</li> <li>5. PRODIGY®,</li> <li>6. SofNet FaxWorks™ 3.0</li> <li>7. AlphaNet™ FollowFax™</li> <li>8. Sedona REPRINT™</li> <li>9. Video for Windows™ 1.1 Runtime</li> </ul>
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<p>The ThinkPad 345 family has the same physical design as the ThinkPad 340</p>	<p>Options for 345:</p> <ul style="list-style-type: none"> <li>- 4 MB IC DRAM 70 ns Parity 92G7232</li> <li>- 8 MB IC DRAM 70 ns Parity 92G7233</li> <li>- 16 MB IC DRAM 70 ns Parity 92G7234</li> <li>- 4 MB IC DRAM 70 ns non-Parity 92G7236</li> <li>- 8 MB IC DRAM 70 ns non-Parity 92G7237</li> <li>- 16 MB IC DRAM 70 ns non-Parity 92G7424</li> <li>- NiMH Battery Pack (Worldwide) 85G7637</li> <li>- NiMH Battery Pack (Japan) 95G7638</li> <li>- NiMH Battery Pack (EMEA) 85G7605</li> <li>- 35 watt AC Adapter (Worldwide) 85G6680</li> <li>- 35 watt AC Adapter (Japan) 85G6682</li> <li>- 35 watt AC Adapter (EMEA) 85G6683</li> </ul>	<p><b>FEATURES OF 345 FAMILY</b></p> <p>3 power saving modes: standby, suspend, and hibernation</p> <p>Personalized nameplate in molded indentation</p> <p>Battery life indicator</p> <p>Non-disruptive battery exchange</p> <p>US EPA Energy Star compliant</p>
<p>PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:</p> <ol style="list-style-type: none"> <li>① automatic config of many PCMCIA cards;</li> <li>② visual/audible confirmation of insertion/removal of cards;</li> <li>③ ability to automatically launch an appl (e.g. async emulation) when card inserted;</li> <li>④ status and info on PCMCIA cards installed.</li> </ol>	<p>IC DRAM parity memory from the above options will work but without parity</p>	<p><b>HELPPWARE</b></p> <p><b>International Warranty Service</b>  <b>24 hour / 7 day telephone, bulletin board, fax, and electronic support</b>  <b>IBM or dealer warranty/service</b>  <b>Online Housecall (remote diagnostics)</b>  <b>30 day money back guarantee</b></p>
<p>Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.</p>		
<p>Hard disk and diskette drive are not removable. Keyboard does not lift up.</p>		

**ThinkPad EasyServ™:** customer calls 1-800-565-3344 in Canada, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).  
 □ = Upgradeable; ○ = Removable; ⊗ = Withdrawn from marketing

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 No warranties are expressed or implied in this summary  
 (345) Compiled by Roger Dodson, IBM. May 1996

# IBM ThinkPad 350, 350C, 500, 510Cs - withdrawn

IBM® ThinkPad®:	≧ 350 monochrome	≧ 350C passive color	≧ 500 sub-notebook	≧ 510Cs color sub-notebook
Processor type	All: <b>80486 SL</b> (no math co)		<b>80486 SLC2</b>	<b>Blue Lightning 486BL2-50</b>
Processor speed	All: <b>25 MHz</b>		<b>50/25 MHz</b>	<b>50/25 MHz</b>
Memory cache	All: 8 KB internal (no L2)		16 KB internal (no L2)	16 KB internal (no L2 cache)
Coprocessor socket	All: No		No	No
Diskette drive	All: 3.5" 1.44 MB		<b>External</b> 3.5" 1.44 MB	<b>External</b> 3.5" 1.44 MB (9 oz.)
Price (retail USD)	\$ 1,499	\$ 1,899	\$ 799	\$ 1,799
Type - model	2618-J0A	2618-L0A	2603-08N	2604-C2U
Hard drive - size	<b>125 MB</b>	<b>250 MB</b>	<b>85 MB</b>	<b>200 MB</b>
Hard drive - speed	15 ms	12 ms	15 ms	17 ms
Avail / withdrawal date	June 93 / withd Sep 94	June 93 / withd Sep 94	Dec 93 / withd Jan 95	June 94 / w May 95
Display - type	VGA mono	<b>VGA color</b>	VGA mono	<b>VGA color</b>
Display - grey scales	64 grey scales	256 colors 640 x 480	64 grey scales	256 colors 640 x 480
Display - technology	STN	STN - passive matrix	STN	STN - passive matrix
Display - light source	LCD - Backlit	LCD - Backlit	LCD - backlit	LCD - backlit
Display - size (diag)	9.5 inch	9.2 inch	7.24 inch	7.7 inch
Display - contrast ratio	18 to 1	13 to 1; Single scan	18 to 1	14 to 1; Single scan
180 degree display tilt	Yes (external SVGA)	Yes (external SVGA)	Yes (external SVGA)	Yes (external SVGA)
Graphics - controller	All: 65530 / External VGA is ISO capable (75Hz)		WD90C26	WD90C24A2 / 1 MB video mem
Graphics - vendor	All: Chips & Technologies, Inc.		Western Digital	Western Digital
Graphics - arch/data path	All: Local bus / 16 bit / Peripheral Interface		ISA 16 bit	VL-Bus / VESA 32 bit local bus
Memory - std / max	All: 4 / 20 MB 80 ns		4 / 12 MB 80 ns	4 / 20 MB 80 ns
Mem - sockets empty	All: 1 socket (non-parity)		1 socket (non-parity)	1 socket (non-parity)
Mem - options available	All: 4, 8, 16 MB SIMMs		4, 8 MB ICs (3.3 volt)	4, 8, 16 MB ICs (3.3 volt)
Keyboard / # of keys	All: Full size alp/num/ 85		90% size alp/num/ 81	90% size alp/num/ 81
Fn key functions	All: 2 (in any appl)		11 (in any appl)	15 (in any appl)
Keyboard slope	All: Yes (back panel)		No	No
Mouse/pointing	All: <b>TrackPoint II™</b>		<b>TrackPoint II</b>	<b>TrackPoint II</b>
Ext keyboard support	All: Yes (with opt cable)		No	Yes (on MultiPort)
Dimensions	11.7 x 8.3 x 1.9"	11.7 x 8.3 x 2.0"	10.1 x 7.2 x 1.6"	10.1 x 7.2 x 1.7"
Cubic inches	184 inches	194 inches	116 inches	124 inches
Carrying case	Many options	Many options	Many options	Many options
Color	Black	Black	Black	Black
Weight (with battery)	5.2 pounds	5.8 pounds	3.4 pounds / 3.7 (170M)	4.0 pounds
Battery - type	Nickel hydride (NiMH)	Nickel hydride (NiMH)	Nickel hydride (NiMH)	Nickel hydride (NiMH)
Batt - life (per battery)	2.7 to 9 hours	2 to 7.5 hours	3.5 to 9 hours	2.5 to 8 hours
Charge time - on / off	2 hrs / 1 hr	2 hrs / 1 hr	3 hrs / 1.5 hrs	2.5 hrs / 1.5 hrs
Architecture	All: AT bus (ISA)		AT bus (ISA)	AT bus (ISA)
Docking Station	All: No		No (withdrawn 500)	No
Port replicator	All: No		No had sealed lead	Yes (MultiPort ships standard)
Modem/serial slot	All: Modem only		No acid battery)	No
PCMCIA 2.01 slots	All: <b>1 Type I or 1 Type II</b>		<b>1 Type I or 1 Type II</b>	<b>1 Type I or 1 Type II</b>
Visible LEDs - closed	All: Yes		Yes	Yes
Serial / parallel ports	All: Yes / Yes		Yes (cable) / Yes (EPP)	Yes (MultiPort) / Yes (EPP)
APM-aware BIOS	All: APM-aware BIOS		APM-aware BIOS	APM-aware BIOS
Other features	All: Wallmount AC adapter		Hibernation mode	Microsaver™ security connector
	All: Personalized nameplate in indentation		Personalized nameplate	Hibernation mode
	All: Coupon book with \$4,000 in savings		Coupon book w/ sav	Personalized nameplate in indentation
Preinstalled software	All: IBM DOS 5.02, PRODIGY®		IBM DOS 6.1, PRODIGY	Personal greeting screen at startup
			After July 1 only on	IBM DOS 6.3, Windows 3.1,
			17N: see below	Demo, and 8 appls listed below
Warranty	All: 1 year - carry in or EasyServ (opt onsite)		1 year - carry in or EasyServ (opt onsite)	1 year - carry in or EasyServ (optional onsite for \$40 a year)

<p><b>FEATURES OF 500 and 510Cs</b></p> <p>500: External cable has 2 connectors for serial port and external diskette drive</p> <p>510: External cable has 1 connector for external diskette drive (serial port on MultiPort).</p> <p><b>MultiPort:</b> A port replicator with connectors for diskette drive, external display, mouse/ keyboard, and serial device (ships with 510Cs). Plugs into 160 pin connector on back.</p> <p>3 power saving modes: doze, suspend, hibernation.</p> <p>Batteries in 500 and 510Cs are NOT compatible</p> <p>≧ Withdrawn from marketing</p>	<p><b>SOFTWARE PREINSTALLED ON 500-17N (after July 1, 1994) and 510Cs</b></p> <p>IBM DOS 6.3, Windows 3.1, Demo, and 8 appls:</p> <p>① Lotus cc:Mail, ② Lotus Organizer 1.12, ③ Lotus ScreenCam 1.0, ④ Official Airline Guide Flight Disk 1.0, ⑤ Triton CoSession Host, ⑥ PRODIGY, ⑦ America Online, ⑧ SofNet FaxWorks 3.0</p> <p>EasyPlaying (PC Card Director™) is preloaded and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers).</p>	<p><b>FEATURES OF ALL PRODUCTS</b></p> <p>Suspend/resume mode; battery life indicator</p> <p>Non-disruptive battery exchange</p> <p>Simultaneous LCD and external CRT</p> <p>US EPA Energy Star compliant</p> <p><b>International travelers warranty IBM or dealer warranty/service 30 day money back guarantee 24 hour / 7 day fax support 24 hour / 7 day bulletin board support 24 hour / 7 day telephone support at 1-800-772-2227</b></p> <p>ThinkPad 500 memory (4, 8 MB IC 3.3 volt) is compatible with ThinkPad 510Cs.</p> <p>ThinkPad 510Cs MultiPort is NOT compatible with ThinkPad 500.</p>
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**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.

♣ Price decrease effective July 13 (350C) and Aug 18 (510), 1994.

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No warranties are expressed or implied in this summary  
(1THINK) Compiled by Roger Dodson, IBM. April 1995

# IBM ThinkPad 355 - withdrawn

IBM® ThinkPad®:	355	355Cs	355C
	monochrome	dual scan color	TFT color
Processor type	All: <b>80486 SX</b> (no math coprocessor)		
Processor speed	All: <b>33MHz</b> 3.3 volt (SL Enhanced)		
Memory cache	All: 8KB internal (no L2 cache)		
Coprocessor socket	All: No		
Removable diskette	All: 3.5" 1.44MB ○		
Price (retail USD)	\$ 1,899	\$ 2,599	\$ 3,399
Type - model	2619-I15	2619-K20	2619-L50
Removable disk - size	<b>125MB</b> ■	<b>170MB</b> ■	<b>125MB</b> ■
Hard drive - speed	15ms ○	15ms ○	15ms ○
Available date	June 94	June 94	July 94
Display - type	VGA mono	<b>VGA color</b>	<b>VGA color</b>
Display - grey scales	64 greyscales 640x480	256 colors 640 x 480	256 colors 640 x 480
Display - technology	STN	STN - passive matrix	<b>TFT - active matrix</b>
Display - light source	LCD - Backlit	LCD - Backlit	LCD - Backlit
Display - size (diag)	9.5 inch	9.5 inch <b>Dual scan</b>	8.4 inch
Display - contrast ratio	18 to 1	20 to 1	100 to 1
180 degree display tilt	Yes	Yes	Yes
Graphics - controller	All: WD90C24A2 with 1MB DRAM / Graphics WinMarks 4.0 = 3.7		
Graphics - vendor	All: Western Digital / External SVGA to 1024x768 with 256 colors		
Graph - arch/data path	All: VL-Bus / 32-bit VESA local bus / Simultaneous LCD and CRT		
Memory - std / max	All: 4 / 20MB 70ns		
Mem - sockets empty	All: 1 socket (non-parity)		
Mem - options available	All: 4, 8, 16MB ICs (5.0 volts)		
Keyboard / # of keys	All: Full size alp/num/ 85		Fn + F2 = Fuel gauge
Fn key functions	All: 10 (in any appl)		Fn + F3 = Standby
Keyboard slope	All: Yes (legs pop out)		Fn + F4 = Suspend
Mouse/pointing	All: <b>TrackPoint II™</b>		Fn + F5 = Audio off/down
Ext keyboard support	All: Yes (with optional cable)		Fn + F6 = Audio on/up
Dimensions	11.7 x 8.3 x 1.7"	11.7 x 8.3 x 2.0"	11.7 x 8.3 x 1.9"
Cubic inches	165 inches	194 inches	185 inches
Carrying case	Many options	Many options	Many options
Color	Black	Black	Black
Weight (with battery)	5.6 pounds	6.2 pounds	6.1 pounds
Battery - type	Nickel hydride	Nickel hydride	Nickel hydride
Batt - life (per battery)	4.6 to 10 hours	3 to 7 hours	3.5 to 7 hours
Charge time - on / off	2 hrs / 1.5 hr	2 hrs / 1.5 hr	2 hrs / 1.5 hr
Architecture	All: AT bus (ISA)		
Docking Station	All: No		
Port replicator	All: No		
Data/fax modem	All: 2400 data / 4800 receive fax / 9600 send fax		
PCMCIA 2.01 slots	All: <b>1 Type I or 1 Type II or 1 Type III</b>		
Serial / parallel ports	All: Yes (one 9 pin) / Yes		
Other features	All: APM-aware BIOS / Selectable boot		
	All: Wallmount AC adapter without powercord with retractable prongs, 30 watts		
	All: <b>Hibernation mode</b> saves memory to disk and shuts off system		
Security	All: Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base		
Preinstalled software	All: MS DOS 6.21, Windows 3.1, Demo, and 8 applications: ① Works for Windows, ② ThinkPad Fitness, ③ ThinkPad Index, ④ Official Airline Guide Flight Disk® 1.0, ⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online™, ⑧ SofNet FaxWorks™ 3.0		
Warranty	All: 1 year - carry in to retailer or EasyServ (optional onsite for \$40)		
The ThinkPad 355 family has the same physical design as the ThinkPad 360, 750, and 755.	Compatible in all 355, 360, 750, and 755 family: - Hard disks (170, 250, 340, 540, 810MB) - 1.44MB diskette drive - CDPD Mobile Communications Module - Keyboard/mouse connector - 355 battery does not work in ThinkPad 750/755, but 750/755 battery will work in 355 - Quick Charger - AC Adapter		<b>FEATURES</b> 3 power saving modes: standby, suspend, and hibernation Personalized nameplate in molded indentation External VGA is ISO capable (75Hz) Upgradeable disks: 170MB, 250MB, 340MB, 540MB, 810MB (all 2.5 inch) Battery life indicator Non-disruptive battery exchange US EPA Energy Star compliant <b>IBM or retailer warranty/service</b> <b>30 day money back guarantee</b> <b>24 hour / 7 day fax support</b> <b>24 hour / 7 day bulletin board support</b> <b>24 hour / 7 day telephone support at 1-800-772-2227</b>
EasyPlaying (PC Card Director™) is preinstalled and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers). This utility ships with ThinkPads 355, 360, 510Cs, and 755 family.	Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 355 (or 360). IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.		
Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in Flash memory.	ThinkPad 750 and 755 options compatible ONLY in ThinkPad 355C: - TV tuner		

**ALL 355 MODELS**  
**Liftable (pop-up) keyboard to access and remove:**  
 ① diskette drive  
 ② disk  
 ③ battery  
 ④ memory

*Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ (355C only) to insert TV Tuner (on screen TV/VCR playback), or ④ to add other third party options.*

*An intelligent battery (standard in ThinkPad 750 and 755) is optional. The ThinkPad 355 battery is lower cost, easy to use because no storage-switch control is required, and shows % of remaining power (compared to hours of remaining power).*

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back within 2 business days (no shipping charges, most shipping is overnight). STN = Super twisted nematic; ■ = Upgradeable; ○ = Removable  
 All trademarks are the property of their respective owners  
 No warranties are expressed or implied in this summary  
 (355) Compiled by Roger Dodson, IBM. August 1998

# IBM ThinkPad 360 - withdrawn

IBM® ThinkPad®:	≈ 360	≈ 360Cs	≈ 360C	≈ 360P	≈ Traveling Multimedia
	monochrome	dual scan color	TFT color	color pen	preconfigured system
Processor type	All: <b>80486 SX</b> (no math coprocessor)			The 360P supports pen based applications	
Processor speed	All: <b>33 MHz</b> 3.3 volt (SL Enhanced)				
Memory cache	All: 8 KB internal (no L2 cache)			A preconfigured, multimedia <b>360Cs</b> ;	
Coprocessor socket	All: No			Available June 94;	
Removable diskette	All: 3.5" 1.44 MB ○			Withdrawn May 1995 Part #2337290	
Price (retail USD)	\$ 1,899	\$ 2,299	\$ 2,349	\$ 2,299 ✱	\$ 2,599 ✱
Type - model	2620-00D	2620-00F	2620-20D	2620-30D	2620-30F
Removable disk - size	<b>170 MB</b> □	<b>340 MB</b> □	<b>170 MB</b> □	<b>340 MB</b> □	<b>170 MB</b> □
Hard drive - speed	15 ms ○	14 ms ○	15 ms ○	14 ms ○	15 ms ○
Available date	May 94 / withd	May 95	May 94 / withd	Dec 95	Dec 95
Display - type	VGA mono		VGA color		VGA color
Display - grey scales	64 greyscales 640x480		256 colors 640 x 480		256 colors 640 x 480
Display - technology	STN		STN - passive matrix		STN - passive matrix
Display - light source	LCD - Backlit		LCD - Backlit		LCD - Backlit
Display - size (diag)	9.5 inch		9.5 inch <b>Dual scan</b>		9.5 inch <b>Dual scan</b>
Display - contrast ratio	18 to 1		20 to 1		18 to 1
180 degree display tilt	Yes		Yes		Yes
Graphics - controller	All: WD90C24A2 with 1 MB DRAM / Graphics WinMarks 4.0 = 3.7			Includes untethered stylus to write on pen-enabled screen	
Graphics - vendor	All: Western Digital / External SVGA to 1024 x 768 with 256 colors				
Graph - arch/data path	All: VL-Bus / 32 bit VESA local bus / Simultaneous LCD and CRT				
Memory - std / max	All: 4 / 20 MB 70 ns			Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ (360C only) to insert TV Tuner (on screen TV/VCR playback), or ④ to add other third party options.	
Mem - sockets empty	All: 1 socket (non-parity)				
Mem - options available	All: 4, 8, 16 MB ICs (5.0 volts)				
Keyboard / # of keys	All: Full size alp/num/ 85		Fn + F2 = Fuel gauge		Fn + F7 = Ext display/LCD
Fn key functions	All: 10 (in any appl)		Fn + F3 = Standby		Fn + F8 = Reverse video (mono)
Keyboard slope	All: Yes (legs pop out)		Fn + F4 = Suspend		Fn + F9 = Hi-intensity text (mono)
Mouse/pointing	All: <b>TrackPoint II™</b>		Fn + F5 = Audio off/down		Fn + F11 = Power mgmt
Ext keyboard support	All: Yes (with optional cable)		Fn + F6 = Audio on/up		Fn + F12 = Hibernation mode
Dimensions	11.7 x 8.3 x 1.7"		11.7 x 8.3 x 2.0"		11.7 x 8.3 x 2.1"
Cubic inches	165 inches		194 inches		204 inches
Carrying case	Many options		Many options		Many options
Color	Black		Black		Black
Weight (with battery)	5.6 pounds		6.2 pounds		6.8 pounds
Battery - type	Nickel hydride		Nickel hydride		Nickel hydride
Batt - life (per battery)	4.6 to 10 hours		3 to 7 hours		3.3 to 7 hours
Charge time - on / off	2 hrs / 1.5 hr		2 hrs / 1.5 hr		2 hrs / 1.5 hr
Architecture	All: AT bus (ISA)			An intelligent battery (standard in ThinkPad 750 and 755) is optional. The ThinkPad 360 battery is lower cost, easy to use because no storage-switch control is required, and shows % of remaining power (compared to hours of remaining power).	
Docking Station	All: <b>Yes</b> (Dock I and II; same as 750/755)				
Port replicator	All: <b>Yes</b> (Port Replicator I and II)				
Modem/serial slot	All: No				
PCMCIA 2.01 slots	All: <b>2 Type I or 2 Type II or 1 Type III</b>				
Serial / parallel ports	All: Yes (one 9 pin) / Yes (EPP)				
Other features	All: APM-aware BIOS / Selectable boot				
	All: Wallmount AC adapter without powercord with retractable prongs, 30 watts				
	All: <b>Hibernation mode</b> saves memory to disk and shuts off system				
	All: Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base				
Security					
Preinstalled software	All: IBM DOS 6.3, Windows 3.1, Demo, and 8 applications:			<b>360P</b> includes software to left and	
	① Lotus® cc:Mail, e-mail for Advantis® network, ② Lotus Organizer 1.12,			① PenDOS® 2.2, ② IBM ThinkWrite,	
	③ Lotus ScreenCam 1.0, ④ Official Airline Guide Flight Disk® 1.0,			③ Windows for Pen Computing 1.0	
	⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online™, ⑧ SofNet FaxWorks™ 3.0				
Warranty	All: 1 year - carry in or EasyServ (optional onsite for \$40) / International travelers warranty				

**ALL 360 MODELS**  
Liftable (pop-up) keyboard to access and remove diskette drive, disk, battery, and memory

<p>The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755.</p> <p>EasyPlaying (PC Card Director™) is preinstalled and on the utility diskette for DOS, Windows and OS/2; it provides status and info on PCMCIA cards installed. In Windows and OS/2, it can register an appl for PCMCIA cards and execute them automatically. Auto Configurator and Memory Device Driver enables supported PCMCIA cards by sensing them automatically (so do not need to install their device drivers). This utility ships with ThinkPads 360, 510Cs, and 755 family.</p> <p>Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in Flash memory.</p>	<p>Compatible in all 360, 750, and 755 family:</p> <ul style="list-style-type: none"> <li>- Hard disks (170, 250, 340, 540, 810 MB)</li> <li>- 1.44 MB diskette drive</li> <li>- Dock I and Dock II</li> <li>- Port Replicator I and Port Replicator II</li> <li>- CDPD Mobile Module (not pen models)</li> <li>- FDD (diskette) External Attachment kit</li> <li>- Keyboard/mouse connector</li> <li>- 360 battery does not work in ThinkPad 750/755, but 750/755 battery will work in 360</li> <li>- Quick Charger</li> <li>- AC Adapter</li> </ul> <p>Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.</p> <p>ThinkPad 750 and 755 options compatible ONLY in ThinkPad 360C:</p> <ul style="list-style-type: none"> <li>- TV tuner and AD card</li> </ul>	<p><b>FEATURES OF 360 FAMILY</b></p> <p>3 power saving modes: standby, suspend, and hibernation</p> <p>Personalized nameplate in molded indentation</p> <p>External VGA is ISO capable (75 Hz)</p> <p>Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch)</p> <p>Battery life indicator</p> <p>Non-disruptive battery exchange</p> <p>US EPA Energy Star compliant</p> <p><b>International travelers warranty</b></p> <p><b>IBM or dealer warranty/service</b></p> <p><b>30 day money back guarantee</b></p> <p><b>24 hour / 7 day fax support</b></p> <p><b>24 hour / 7 day bulletin board support</b></p> <p><b>24 hour / 7 day telephone support at 1-800-772-2227</b></p> <p>Winstone 94 for 360C = 26.4</p>
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**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 STN = Super twisted nematic; □ = Upgradeable; ○ = Removable  
 ✱ Price decrease effective January 26, 1995; ≈ Withdrawn from marketing  
 All trademarks are the property of their respective owners  
 No warranties are expressed or implied in this summary  
 (360THINK) Compiled by Roger Dodson, IBM, December 1995

# IBM ThinkPad 360CSE / CE - withdrawn

<b>IBM® ThinkPad®:</b>	≧ <b>360CSE</b> dual scan color	≧ <b>360CE</b> TFT color	The 360CSE / CE is the same as the 360 (older models) except:			
Processor type	<b>80486 DX2</b>		<b>360</b>		<b>360CSE / CE</b>	
Processor speed	50/25 MHz 3.3 volt (SL Enhanced)		Mono, Dual scan, TFT, Pen		Dual scan, TFT	
Memory cache	8 KB internal (no L2 cache)		486SX - 33 MHz		486DX2 - 50/25 MHz	
Coprocessor socket	Integrated in 486DX2		No math cop possible		Integrated math cop	
Removable diskette	3.5" 1.44 MB ○ / supports internal 2.88 MB diskette		170, 340 MB std models		170, 340, 540 MB std	
Removable CD-ROM	None				More preloaded apps	
Price (retail USD)	\$ 2,399 ↘	\$ 2,699 ↘	\$ 3,049 ↘	\$ 2,799	\$ 3,099	\$ 3,449
Type - model	2620-80D	2620-80F	2620-80G	2620-90D	2620-90F	2620-90G
Removable disk - size	170 MB □	340 MB □	540 MB □	170 MB □	340 MB □	540 MB □
Hard drive - speed	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○
Available date	Oct 94 / withdrawn Dec 95			Oct 94 / withdrawn Dec 95		
Display - type	VGA color / 640 x 480			VGA color / 640 x 480		
Display - colors	256 simultaneous colors			256 simultaneous colors		
Display - technology	Dual scan - passive matrix			TFT - active matrix		
Display - size (diag)	9.5 inch			8.4 inch		
Display - contrast ratio	20 to 1			100 to 1		
180 degree display tilt	Yes			Yes		
Graphics - controller	WD90C24A or A2 with 1 MB DRAM					
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz)					
Graph - arch/data path	VL-Bus local bus / 32 bit / Simultaneous LCD and CRT					
Memory - std / max	4 MB / 20 MB 70 ns / non-parity / 5.0 volt					
Mem - sockets empty	1 socket					
Mem - options available	4, 8, 16 MB ICs					
Keyboard / # of keys	Full size alp/num / 85 keys					
Fn key functions	8 (in any appl)					
Keyboard slope	Yes (legs pop out)					
Mouse/pointing	TrackPoint II™					
Ext keyboard support	Yes (with optional cable)					
Dimensions	11.7 x 8.3 x 2.0"			11.7 x 8.3 x 1.9"		
Cubic inches	194 inches			185 inches		
Color	Black			Black		
Weight (with battery)	6.2 pounds			6.1 pounds		
Battery - type	Nickel hydride (NiMH)			Nickel hydride (NiMH)		
Batt - life (per battery)	2.9 to 7 hours			3.2 to 7 hours		
Charge time - on / off	2 hrs / 1.5 hr			2 hrs / 1.5 hr		
Architecture	AT bus (ISA)					
Docking Station	Dock I and II					
Port replicator	Port Replicator I and II					
Modem/serial slot	No					
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III					
Serial / parallel ports	Yes (one 9 pin) 16550B / Yes (EPP)					
Other features	APM-aware BIOS / Selectable boot Some models will have Wallmount AC adapter without powercord with retractable prongs, 30 watts <b>Hibernation mode</b> saves memory to disk and shuts off system Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base					
Security	Power-on password / Hard disk password / Hardware security loop / PCMCIA card lock / Optional Security Base					
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, and all apps listed to right:					
Warranty	1 year - carry in or EasyServ (optional onsite for \$40)					

**ALL 360 MODELS**  
**Liftable (pop-up) keyboard to access and remove diskette drive, disk, battery, and memory**

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure; \$135) to the Port Replicator Model I and II and Dock I and II.

- Diskette drive can be removed
- ① to reduce weight
  - ② to insert cellular modem (CDPD)
  - ③ to insert TV Tuner (for on screen TV and VCR playback)
  - ④ to insert 2.88 MB diskette
  - ⑤ to add other third party options

#### PREINSTALLED APPLICATIONS

- IBM PC DOS 6.3
  - Windows 3.11
  - IBM PC Card Director for PCMCIA
  - IBM ThinkPad Demo
  - Online Users Guide
  - ThinkPad features
1. Lotus® cc:Mail, e-mail for Advantis® network,
  2. Lotus Organizer 1.12,
  3. Lotus ScreenCam 1.0,
  4. Official Airline Guide Flight Disk® 1.0,
  5. Triton CoSession™ Host,
  6. PRODIGY®,
  7. America Online™ SM,
  8. SofNet FaxWorks™ 3.0
  9. Taxi™
  10. Second Nature Screen Saver
  11. Farallon® Replica™
  12. AlphaNet™ FollowFax™
  13. Sedona REPRINT™
  14. COMPEL™ Personal Edition
  15. Reuters™ Money® Network

<p>The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755 family.</p> <p>PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:</p> <ol style="list-style-type: none"> <li>① automatic config of many PCMCIA cards;</li> <li>② visual/audible confirmation of insertion/removal of cards;</li> <li>③ ability to automatically launch an appl (e.g. async emulation) when card inserted;</li> <li>④ status and info on PCMCIA cards installed.</li> </ol> <p>Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.</p>	<p>Compatible in all 360 family, 360CSE / CE, 750 family, 755 family, 755CSE / CE, 755CD:</p> <ul style="list-style-type: none"> <li>- Disks: 170 MB IDE disk 66G2849</li> <li>250 MB IDE disk 84G2391</li> <li>340 MB IDE disk 66G2849</li> <li>540 MB IDE disk 84G2150</li> <li>810 MB IDE disk 84G8250</li> <li>- Dock I (1 slot / 1 bay) 3450001</li> <li>- Dock II (2 slot / 2 bay) 84G3587</li> <li>- Port Replicator I (w/ PCMCIA) 66G3510</li> <li>- Port Replicator II 66G3520</li> <li>- 1.44 MB diskette std in newer 66G0108</li> <li>- 2.88 MB diskette 66G0108</li> </ul> <p>Options for 360 (not pen), 360CSE / CE, 750 (not pen), 755, 755CSE / CE:</p> <ul style="list-style-type: none"> <li>- CDPD Mobile module 71G2560</li> </ul> <p>Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC Memory from ThinkPad 700, 720, 750, and 755 will work but without parity.</p> <p>Options only for TFT models - 360C, 360CE, 750C, 755C, 755CE, 755CD</p> <ul style="list-style-type: none"> <li>- TV Tuner 66G3689</li> </ul>	<p><b>FEATURES OF 360 FAMILY</b></p> <p>3 power saving modes: standby, suspend, and hibernation</p> <p>Personalized nameplate in molded indentation</p> <p>External VGA is ISO capable (75 Hz)</p> <p>Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch)</p> <p>Battery life indicator</p> <p>Non-disruptive battery exchange</p> <p>US EPA Energy Star compliant</p>																			
	<p>Battery compatibility:</p> <table border="1"> <thead> <tr> <th></th> <th>All 360</th> <th>All 750</th> <th>C/CS</th> <th>755 CE/CD</th> </tr> </thead> <tbody> <tr> <td>84G2392 360 NiMH battery</td> <td>Y</td> <td>N</td> <td>N</td> <td>N</td> </tr> <tr> <td>66G2846 750 NiMH battery</td> <td>Y</td> <td>Y</td> <td>Y</td> <td>N</td> </tr> <tr> <td>85G1513 NiMH Batt Pack II</td> <td>N</td> <td>N</td> <td>N</td> <td>Y</td> </tr> </tbody> </table> <p>Y = battery supported; N = not supported</p>		All 360	All 750	C/CS	755 CE/CD	84G2392 360 NiMH battery	Y	N	N	N	66G2846 750 NiMH battery	Y	Y	Y	N	85G1513 NiMH Batt Pack II	N	N	N	Y
	All 360	All 750	C/CS	755 CE/CD																	
84G2392 360 NiMH battery	Y	N	N	N																	
66G2846 750 NiMH battery	Y	Y	Y	N																	
85G1513 NiMH Batt Pack II	N	N	N	Y																	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

□ = Upgradeable; ○ = Removable; ↘ Price decrease effective February 14, 1995.

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No warranties are expressed or implied in this summary  
(360E) Compiled by Roger Dodson, IBM. December 1995

# IBM ThinkPad 360PE - withdrawn

<b>IBM® ThinkPad®:</b> <b>⋈ 360PE</b> dual scan color - pen		<b>The ThinkPad 360PE has the same features as 360CSE except:</b> ⤵ <b>Pen enabled display</b> ⤵ <b>Untethered batteryless stylus (pen)</b> ⤵ <b>Display folds down to flat position to write on</b> ⤵ <b>16 bit audio codec</b> (vs no audio) ⤵ <b>Audio in and audio out jacks</b> ⤵ <b>PenDOS, Pen Windows, and Monologue preinstalled</b> ⤵ <b>35 watt universal AC adapter</b> (vs 30 watt)	
Processor type <b>80486 DX2</b> Processor speed <b>50/25 MHz</b> 3.3 volt (SL Enhanced) Memory cache         8 KB internal (no L2 cache) Coprocessor socket    Integrated in 486DX2 Removable diskette    3.5" 1.44 MB ○ / supports internal 2.88 MB diskette Removable CD-ROM     None			
Price (retail USD)     \$3,699                     \$4,049 Type - model            2620-BOF                2620-BOG Removable disk - size <b>340 MB</b> □ ○ <b>540 MB</b> □ ○ Hard drive - speed     14 ms                     14 ms Avail / withdrawn date April 1995 / June 96    July 1995 / June 1996		<b>ALL 360 MODELS</b> <b>Liftable (pop-up) keyboard to access and remove diskette drive, disk, battery, and memory</b>	
Display - type <b>VGA color / 640 x 480</b> Display - colors       256 simultaneous colors Display - technology <b>Dual scan</b> - passive matrix Display - size (diag) <b>9.5 inch / 20 to 1 contrast ratio</b> Display - pen enabled <b>Pen enabled screen / folds flat / includes untethered batteryless stylus</b>		The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.  Diskette drive can be removed ① to reduce weight ② to add other third party options	
Graphics - controller   WD90C24A or A2 with 1 MB DRAM Graphics - vendor       Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz) Graph - arch/data path   VL-Bus local bus / 32 bit / Simultaneous LCD and CRT			
Memory - std / max     4 MB / 20 MB    70 ns / non-parity / 5.0 volt Mem - sockets empty    1 socket Mem - options available 4, 8, 16 MB ICs			
Keyboard / # of keys    Full size alp/num / 85 keys Fn key functions        8 (in any appl) Keyboard slope          Yes (legs pop out) Mouse/pointing         TrackPoint II™ Ext keyboard support    Yes (with optional cable)		<b>Memory options:</b> 4 MB IC DRAM 70 ns 5v parity        92G7232 8 MB IC DRAM 70 ns 5v parity        92G7233 16 MB IC DRAM 70 ns 5v parity        92G7234 4 MB IC DRAM 70 ns 5v non-parity    92G7236 8 MB IC DRAM 70 ns 5v non-parity    92G7237 16 MB IC DRAM 70 ns 5v non-parity    92G7424	
Dimensions             11.7 x 8.3 x 2.1" Cubic inches            204 inches Color                     Black Weight (with battery)   6.8 pounds			
Battery - type          Nickel hydride (NiMH) Batt - life (per battery) 3 to 7 hours Charge time - on / off   2 hrs / 1.5 hr			
Architecture            AT bus (ISA) Docking Station        Dock I and II Port replicator         Port Replicator I and II PCMCIA™ 2.1 slots <b>2 Type I or 2 Type II or 1 Type III</b> Serial / parallel ports   Yes (one 9 pin) / Yes (EPP)			
Audio support <b>16 bit audio codec on planar / Crystal Semiconductor™ CS4248 / int speaker</b> Audio in/out jack       Input jack / output jack Other features          APM-aware BIOS / Selectable boot AC adapter, 35 watts, worldwide, not wallmount Hibernation mode saves memory to disk and shuts off system			
<b>Security</b> Power-on password / Hard disk password / Hardware security loop (secures unit, prevents opening keyboard) / PCMCIA card lock / Optional Security Base			
Preinstalled software   IBM DOS 6.3, Windows™ 3.11, pen op systems, and all appls listed to right: Warranty                1 year - ThinkPad EasyServ only Warranty options        Onsite via special bid only / ThinkPad EasyServ Overnight Repair Option		<b>PREINSTALLED APPLICATIONS</b>  - IBM PC DOS 6.3 - <b>PenDOS® 2.2</b> - <b>IBM ThinkWrite 1.21</b> - Windows 3.11 - <b>Windows for Pen computing® 1.0</b> - IBM PC Card Director for PCMCIA - Online Users Guide - ThinkPad features 1. Lotus® cc:Mail, for the IBM Global® network 2. Lotus Organizer 1.12 3. Lotus ScreenCam 1.0 4. Official Airline Guide Flight Disk® 1.0 5. Triton CoSession™ Host 6. PRODIGY® 7. America Online™ 8. SofNet FaxWorks™ 3.0 9. Taxi™ 10. Second Nature Screen Saver 11. Farallon® Replica™ 12. AlphaNet™ FollowFax™ 13. Sedona REPRINT™ 14. COMPEL™ Personal Edition 15. Reuters™ Money® Network 16. Monologue™	
The ThinkPad 360 family has the same physical design as the ThinkPad 750 and 755 family. PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides: ① automatic config of many PCMCIA cards; ② visual/audible confirmation of insertion/removal of cards; ③ ability to automatically launch an appl (e.g. async emulation) when card inserted; ④ status and info on PCMCIA cards installed. Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.		Compatible in all 360 family, all 750 family, and all 755 family: - Disks: 170 MB IDE                    66G2847 250 MB IDE                        84G2391 340 MB IDE                        66G2849 540 MB IDE                        84G2150 810 MB IDE                        84G8250 - Dock I (1 slot / 1 bay)                3545001 - Dock II (2 slot / 2 bay)                3546001 - Port Replicator I (w/ PCMCIA)        66G3510 - Port Replicator II                     66G3520 - 1.44 MB diskette                        std in newer	
ThinkPad 360PE supported batteries: - 360 NiMH battery                      84G2392 - 750 NiMH battery                      66G2846 - 750 QuickCharger                     66G2843		<b>OPTIONS FOR 360PE:</b> - AC Adapter, 35 watts                    85G6680 - AC Adapter, 40 watts                    49G2165 - AC Adapter, 40 w, wallmount        84G2148 - Car Battery Adapter                     49G2167	
		Memory from ThinkPad 350, 500, and 510Cs is NOT compatible in 360. IC DRAM memory from ThinkPad 700, 720, 750, and 755 will work but without parity.	
		<b>FEATURES OF 360 FAMILY</b> 3 power saving modes: standby, suspend, and hibernation Personalized nameplate in molded indentation External VGA is ISO capable (75 Hz) Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB (all 2.5 inch) Battery life indicator Non-disruptive battery exchange US EPA Energy Star compliant	
		<b>HELPWARE</b> <b>1 year warranty</b> <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, and electronic support</b> <b>IBM or dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b> <b>30 day money back guarantee</b>	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 □ = Upgradeable; ○ = Removable; ⋈ = Withdrawn from marketing

All trademarks are the property of their respective owners  
 No warranties are expressed or implied in this summary  
 (360PE) Compiled by Roger Dodson, IBM. June 1996

# IBM ThinkPad 365 (non-CD-ROM models) - withdrawn

<b>IBM® ThinkPad®:</b>	⋈ 365CS	⋈ 365C					<b>ThinkPad 365 strengths:</b>
	10.4" dual scan				10.4" TFT		<ul style="list-style-type: none"> <li>⊕ <b>Entry-priced notebook</b></li> <li>⊕ <b>Extensive software preload</b></li> <li>⊕ <b>Infrared port</b></li> <li>⊕ <b>Optional Port Replicator with battery charger and palm rest</b></li> </ul>
Processor	<b>Cyrix Cx486DX4™ 75/25 MHz</b> / integrated math coprocessor						<p style="text-align: center;"><b>SELECTASYSTEM PRELOAD</b></p> <ul style="list-style-type: none"> <li>- IBM DOS 7.0</li> <li>- Windows 3.11</li> <li>- OS/2® Warp 3.0 (dual boot) with selected BonusPak applications</li> <li>- IBM PC Card Director™ 1.4</li> <li>- IBM ThinkPad Demo</li> <li>- Online Users Guide</li> <li>- ThinkPad features ; Diskette Factory</li> <li>1. Lotus® cc:Mail™, e-mail for IBM Global® Network</li> <li>2. Lotus Organizer™</li> <li>3. Lotus ScreenCam™</li> <li>4. Triton CoSession™ Host</li> <li>5. PRODIGY®</li> <li>6. SofNet FaxWorks™</li> <li>7. Video For Windows™ Runtime</li> <li>8. Puma TranXit™</li> <li>9. Compuserv for Windows</li> <li>10. NetFinity for Windows and OS/2</li> </ul> <p style="text-align: center;"><b>WINDOWS 95 PRELOAD</b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 95</li> <li>- IBM ThinkPad Demo</li> <li>- Online Users Guide</li> <li>- ThinkPad features; Diskette Factory</li> <li>1. Lotus® cc:Mail™, e-mail for IBM Global® network</li> <li>2. Lotus Organizer™</li> <li>3. Lotus ScreenCam™</li> <li>4. Triton CoSession™ Host</li> <li>5. PRODIGY®</li> <li>6. SofNet FaxWorks™</li> <li>7. Puma TranXit™</li> <li>8. Compuserve for Windows</li> </ul>
Processor upgrade	None						
Memory cache	8 KB in DX4 (write back) / no L2 cache						
Diskette drive	Internal 3.5" 1.44 MB (not removable)						
CD-ROM	None (cannot upgrade)						
Price							
Type - model <b>all 2625</b>	203	W11	205	W12	2625-305	2625-W13	
Part number	38H5711	41H8660	38H5712	41H8661	38H5714	41H8662	
Preload (see side)	SelSys	Win 95	SelSys	Win 95	SelectaSystem	Windows 95	
Disk - capacity	<b>340 MB</b>	<b>340 MB</b>	<b>540 MB</b>	<b>540 MB</b>	<b>540 MB</b>	<b>540 MB</b>	
Disk - ms / interface	13 ms / EIDE		13 ms / EIDE		13 ms / EIDE		
Avail / withdrawn date	Nov 1995 / Jun 96		Nov 1995 / Jun 96		Nov 95 / Jun 96		
Display - diagonal size	<b>10.4" Dual scan</b>			<b>10.4" Black Matrix TFT</b> - active matrix			
Display - type	<b>VGA color / 640 x 480</b>			<b>VGA color / 640 x 480</b>			
Display - colors	256 simultaneous colors			<b>262,144 simultaneous colors</b>			
Display - contrast	30 to 1			100 to 1			
Graphics - controller	Chips and Technologies™ 65545			Chips and Technologies 65545			
Graphics - memory	512 KB DRAM			1 MB DRAM			
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz						
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt						
Memory - std / max	<b>8 MB / 24 MB</b> 70 ns / non-parity / 3.3 volt / fast page						
Memory - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB						
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)			<b>Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); diskette drive is not removable</b>			
Keyboard slope	Yes (legs pop out)						
Pointing	<b>TrackPoint III™</b>						
Ext keyboard support	Yes (with option cable or Port Replicator)						
Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)						
Weight (with battery)	5.9 pounds			5.8 pounds			
Battery - type	NiMH / non-intelligent						
Battery - life	3 to 9 hours						
Charge time - on / off	6 hrs / 2 hrs						
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 100 pin external expansion) VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)						
Docking Station	None						
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)						
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III						
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)						
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS						
MPEG decoder	None						
Data/fax modem	None						
Audio support	None						
Audio in/out jacks	None						
Infrared ports	<b>Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps</b>						
Security	Power-on password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)						
Preinstalled software	Choice of two preloaded configurations (listed to right)						
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in						
<p>The <b>Port Replicator and Charger</b> provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.</p> <p>The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.</p> <p>Port Replicator and Charger connectors:</p> <ul style="list-style-type: none"> <li>- Serial (RS-232, 9 pin)</li> <li>- Parallel (EPP, ECP, 25 pin)</li> <li>- External display (15 pin)</li> <li>- Keyboard</li> <li>- Mouse</li> <li>- Diskette drive (26 pin)</li> <li>- Game with MIDI support (15 pin)</li> <li>- Audio in (3.5 mm)</li> <li>- Audio out (3.5 mm)</li> <li>- DC input connector</li> <li>- Spare battery connector (to charge 2nd battery)</li> </ul>			<p>Options for ThinkPad 365:</p> <ul style="list-style-type: none"> <li>- 4 MB SO DIMM 3.3v non-parity 72 pin 92G7287</li> <li>- 16 MB SO DIMM 3.3v non-parity 72 pin 92G7293</li> <li>- 720 MB EIDE HDD 13 ms PIO Mode 3 38H6306</li> <li>- 810 MB EIDE HDD 13 ms PIO Mode 4 42H4012</li> <li>- 1.08 GB EIDE HDD 13 ms Mode 4 69H7956</li> <li>- Port Replicator and Charger 38H6303</li> <li>- NiMH Battery Pack 38H6304</li> </ul> <p>Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt</p> <p>Fn + F2 = Battery gauge            Fn + F3 = Standby            Fn + F4 = Suspend            Fn + F7 = LCD/CRT/Simultaneous            Fn + F8 = Reverse video            Fn + F11 = Power mgmt            Fn + F12 = Hibernation            PgUp = Speaker enable            PgDn = Speaker disable</p> <p>System enters hibernation mode when keyboard is lifted up.</p>				
<p>Disk is not removable (like 755/760 systems), but it can be upgraded via tools</p>							
<p><b>FEATURES OF 365 MODELS</b></p> <p>Product Map            LED indicator panel            Plug and Play 1.0a            Non-disruptive battery exchange            Doze, standby, suspend, safe suspend, and hibernation modes            US EPA Energy Star compliant            Personalized nameplate in indentation            Personalization screen at startup  <b>International Warranty Service</b>  <b>24 hour / 7 day telephone, bulletin board, fax, and electronic support</b>  <b>IBM or dealer warranty/service</b>  <b>Online Housecall (remote diagnostics)</b>  <b>30 day money back guarantee</b></p>							

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 ⋈ = Withdrawn from marketing

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 No warranties are expressed or implied in this summary  
 (365) Compiled by Roger Dodson, IBM. June 1996

# IBM ThinkPad 365 (CD-ROM models) - withdrawn

IBM® ThinkPad®:	⋈ 365CSD	⋈ 365CD	ThinkPad 365 (CD-ROM models) strengths		
Processor	Cyrix Cx 486DX4™ 75/25 MHz / integrated math coprocessor				
Processor upgrade	None				
Memory cache	8 KB in DX4 (write-back) / no L2 cache				
Diskette (not internal)	External 3.5" 1.44 MB (connects to back of system) / use simultaneously w/ CD-ROM				
CD-ROM (not remove)	<b>5.25" CD-ROM / double speed / multi-session / XA / front loaded / ATAPI</b>				
Price					
Type - model	<b>all 2625</b>	2625-A05	2625-W14	2625-B05	2625-W15
Part number		38H5724	41H8663	38H5726	41H8664
Preload (see side)		SelectaSystem	Windows 95	SelectaSystem	Windows 95
Disk - capacity		<b>540 MB</b>	<b>540 MB</b>	<b>540 MB</b>	<b>540 MB</b>
Disk - ms / interface		13 ms / EIDE	13 ms / EIDE	13 ms / EIDE	13 ms / EIDE
Avail / withdrawn date		Nov 1995 / Jun 96	Nov 95 / Jun 96	Nov 95 / Jun 96	Nov 95 / Jun 96
Display - diagonal size	<b>10.4" Dual scan</b>		<b>10.4" Black Matrix TFT</b> - active matrix		
Display - type	<b>VGA color / 640 x 480</b>		<b>VGA color / 640 x 480</b>		
Display - color	256 simultaneous colors		<b>262,144 simultaneous colors</b>		
Display - contrast	30 to 1		100 to 1		
Graphics - controller	Chips and Technologies™ 65545 with 1 MB DRAM				
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz				
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt				
Memory - std / max	<b>8 MB / 24 MB</b> 70 ns / non-parity / 3.3 volt / fast page				
Mem - upgrade	1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB				
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)		<b>Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); CD-ROM is not removable</b>		
Keyboard slope	Yes (legs pop out)				
Pointing	<b>TrackPoint III™</b>				
Ext keyboard support	Yes (with option cable or Port Replicator)				
Dimensions (cubic in)	11.7 x 8.3 x 2.0" (194 cubic inches)				
Weight (with battery)	6.4 pounds		6.3 pounds		
Battery - type	NiMH / non-intelligent				
Battery - life	2.5 to 9 hours				
Charge time - on / off	6 hrs / 2 hrs				
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, 240 pin external expansion) VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk)				
Docking Station	None				
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)				
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III				
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS				
MPEG decoder	None				
Data/fax modem	None				
Audio support	<b>16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688 with OPL3 Internal speaker / .5 watt / dial volume control / internal microphone</b>				
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) Joystick/MIDI port (includes Joystick/MIDI cable)				
Infrared ports	<b>Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps</b>				
Security	Power-on password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)				
Preinstalled software	Choice of two preloaded configurations (listed to right)				
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in				
<p><b>The Port Replicator and Charger</b> provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.</p> <p>The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.</p> <p>Port Replicator and Charger connectors:</p> <ul style="list-style-type: none"> <li>- Serial (RS-232, 9 pin)</li> <li>- Parallel (EPP, ECP, 25 pin)</li> <li>- External display (15 pin)</li> <li>- Keyboard</li> <li>- Mouse</li> <li>- Diskette drive (26 pin)</li> <li>- Game with MIDI support (15 pin)</li> <li>- Audio in (3.5 mm)</li> <li>- Audio out (3.5 mm)</li> <li>- DC input connector</li> <li>- Spare battery connector (to charge 2nd battery)</li> </ul>		<p>Options for ThinkPad 365:</p> <ul style="list-style-type: none"> <li>- 4 MB SO DIMM 3.3v non-parity 72 pin 92G7287</li> <li>- 16 MB SO DIMM 3.3v non-parity 72 pin 92G7293</li> <li>- 720 MB EIDE HDD 13 ms PIO Mode 3 38H6306</li> <li>- 810 MB EIDE HDD 13 ms PIO Mode 4 442H4012</li> <li>- 1.08 GB EIDE HDD 13 ms Mode 4 69H7956</li> <li>- Port Replicator and Charger 38H6303</li> <li>- NiMH Battery Pack 38H6304</li> </ul> <p>Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt</p> <p>Fn + F2 = Battery guage            Fn + F3 = Standby            Fn + F4 = Suspend            Fn + F7 = LCD/CRT/Simultaneous            Fn + F8 = Reverse video            Fn + F11 = Power mgmt            Fn + F12 = Hibernation            PgUp = Speaker enable            PgDn = Speaker disable</p> <p>System enters hibernation mode when keyboard is lifted up.</p>			
		<p>Disk is not removable (like 755/760 systems), but it can be upgraded via tools</p> <p><b>FEATURES OF 365 MODELS</b></p> <p>Product Map            LED indicator panel            Plug and Play 1.0a            Non-disruptive battery exchange            Doze, standby, suspend, safe suspend, and hibernation modes            US EPA Energy Star compliant            Personalized nameplate in indentation            Personalization screen at startup  <b>International Warranty Service</b>  <b>24 hour / 7 day telephone, bulletin board, fax, and electronic support</b>  <b>IBM or dealer warranty/service</b>  <b>Online Housecall (remote diagnostics)</b>  <b>30 day money back guarantee</b></p>			
<p><b>ThinkPad EasyServ™:</b> customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.</p> <p>⋈ = Withdrawn from marketing</p>					

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 No warranties are expressed or implied in this summary  
 (365CD) Compiled by Roger Dodson, IBM. June 1996



# IBM ThinkPad 365E - withdrawn

<b>IBM® ThinkPad®:</b> >= 365E 10.4" dual scan	<b>ThinkPad 365 strengths:</b> ⇨ <b>Entry-priced notebook</b> ⇨ <b>Extensive software preload</b> ⇨ <b>Infrared port</b> ⇨ <b>Optional Port Replicator with battery charger and palm rest</b>	
Processor Processor upgrade Memory cache Diskette drive CD-ROM	<b>IBM 5x86c™ 100/33 MHz</b> (Cyrix) / integrated math coprocessor None 16 KB in 5x86c (write back) / no L2 cache Internal 3.5" 1.44 MB (not removeable) None (can not upgrade)	
Price Type - model Preload (see side) Disk - capacity Disk - ms / interface Available date Withdrawn date	2625-W9A Windows 95 <b>540 MB</b> 13 ms / EIDE / PIO Mode 3 May 1996 October 1996	
Display - diagonal size Display - type Display - colors Display - contrast	<b>10.4" Dual scan</b> <b>VGA color / 640 x 480</b> 256 simultaneous colors 30 to 1	
Graphics - controller Graphics - memory Graphics - external Graph - arch/data path	Chips and Technologies™ 65545 1 MB DRAM External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt	
Memory - std / max Memory - upgrade	<b>8 MB / 24 MB</b> 70 ns / non-parity / 3.3 volt / fast page 1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB	
Keyboard / # of keys Keyboard slope Pointing Ext keyboard support	Full size alp/num / 85 (8 Fn key functions) Yes (legs pop out) <b>TrackPoint III™</b> Yes (with option cable or Port Replicator)	<b>Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); diskette drive is not removable</b>
Dimensions (cubic in) Weight (with battery) Battery - type Battery - life Charge time - on / off	11.7 x 8.3 x 2.0" (194 cubic inches) 5.9 pounds NiMH / non-intelligent 2.5 hours 6 hrs / 2 hrs	
Architecture Docking Station Port replicator PCMCIA™ 2.1 slots Serial / parallel ports Other features	ISA (audio, PCMCIA, diskette, serial, parallel, 100 pin external expansion) VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk) None Port Replicator and Charger (with built-in battery charger and palm rest) 2 Type I or 2 Type II or 1 Type III One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional) APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS	
MPEG decoder Data/fax modem Audio support Audio in/out jacks Infrared ports	None None None None <b>Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps</b>	
Security	Power-on password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)	
Preinstalled software Warranty	Windows 95 with utilities and applications (listed to right) <b>1 year - ThinkPad EasyServ</b> (optional Overnight Repair Option) or carry-in	
<p>The <b>Port Replicator and Charger</b> provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.</p> <p>The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.</p> <p>Port Replicator and Charger connectors:</p> <ul style="list-style-type: none"> <li>- Serial (RS-232, 9 pin)</li> <li>- Parallel (EPP, ECP, 25 pin)</li> <li>- External display (15 pin)</li> <li>- Keyboard</li> <li>- Mouse</li> <li>- Diskette drive (26 pin)</li> <li>- Game with MIDI support (15 pin)</li> <li>- Audio in (3.5 mm)</li> <li>- Audio out (3.5 mm)</li> <li>- DC input connector</li> <li>- Spare battery connector (to charge 2nd battery)</li> </ul>	<p>Options for ThinkPad 365:</p> <ul style="list-style-type: none"> <li>- 4 MB SO DIMM 3.3v non-parity 72 pin 92G7287</li> <li>- 16 MB SO DIMM 3.3v non-parity 72 pin 92G7293</li> <li>- 810 MB EIDE HDD 13 ms Mode 4 42H4012</li> <li>- 1.08 GB EIDE HDD 13 ms Mode 4 69H7956</li> <li>- Port Replicator and Charger (old) 38H6303 replaced by 75H7529</li> <li>- NiMH Battery Pack 38H6304</li> <li>- 35 watt AC Adapter - 2 pin 85G6719</li> </ul> <p>Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt</p> <ul style="list-style-type: none"> <li>Fn + F2 = Battery guage</li> <li>Fn + F3 = Standby</li> <li>Fn + F4 = Suspend</li> <li>Fn + F7 = LCD/CRT/Simultaneous</li> <li>Fn + F8 = Reverse video</li> <li>Fn + F11 = Power mgmt</li> <li>Fn + F12 = Hibernation</li> <li>PgUp = Speaker enable</li> <li>PgDn = Speaker disable</li> </ul> <p>System enters hibernation mode when keyboard is lifted up</p> <p>Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver</p>	
<p><b>ThinkPad EasyServ™:</b> customer calls IBM HelpCenter, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).</p>		<p>All trademarks are the property of their respective owners                  No warranties are expressed or implied in this summary (365E) Compiled by Roger Dodson, IBM. October 1996</p>

## WINDOWS 95 PRELOAD

- Microsoft Windows 95
- Online Users Guide
- Diskette Factory
- PC Card Director 1.4
- 1. Triton™ CoSession™ Host
- 2. Puma TranXit™
- 3. NetFinity for Windows
- 4. CompuServ™ for Windows

## FEATURES OF 365 MODELS

- Product Map
- LED indicator panel
- Plug and Play 1.0a
- Non-disruptive battery exchange
- Doze, standby, suspend, safe suspend, and hibernation modes
- US EPA Energy Star compliant
- Personalized nameplate in indentation
- Personalization screen at startup
- International Warranty Service**
- 24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support**
- IBM and dealer warranty/service**
- Online Housecall (remote diagnostics)**

# IBM ThinkPad 365ED - withdrawn

<b>IBM® ThinkPad®:</b>	<b>&gt; 365ED</b> 10.4" dual scan - CD-ROM		<b>ThinkPad 365 (CD-ROM models) strengths</b>
Processor Processor upgrade Memory cache Diskette (not internal) CD-ROM (not remove)	<b>IBM 5x86c™ 100/33 MHz</b> (Cyrix) / integrated math coprocessor None 16 KB in 5x86c (write-back) / no L2 cache External 3.5" 1.44 MB (connects to back of system) / use simultaneously w/ CD-ROM <b>5.25" CD-ROM / 4 x speed / multi-session / XA / front loaded / ATAPI</b>		<ul style="list-style-type: none"> <li>⇨ <b>Entry-priced CD-ROM notebook</b></li> <li>⇨ <b>Integrated audio, microphone, speaker</b></li> <li>⇨ <b>Simultaneous external diskette</b></li> <li>⇨ <b>Joystick/MIDI port</b></li> <li>⇨ <b>Infrared port</b></li> <li>⇨ <b>MPC2 compliant</b></li> </ul>
Price Type - model Preload (see side) Disk - capacity Disk - ms / interface Available date Withdrawn date	2625-W9G Windows 95 <b>540 MB</b> 13 ms / EIDE / PIO Mode 3 May 1996 October 1996		<b>WINDOWS 95 PRELOAD</b> <ul style="list-style-type: none"> <li>- Microsoft Windows 95</li> <li>- Online Users Guide</li> <li>- Diskette Factory</li> <li>- PC Card Director 1.4</li> </ul> <ol style="list-style-type: none"> <li>1. Triton CoSession™ Host</li> <li>2. Puma TranXit™</li> <li>3. NetFinity for Windows</li> <li>4. CompuServ™ for Windows</li> </ol>
Display - diagonal size Display - type Display - color Display - contrast	<b>10.4" Dual scan</b> <b>VGA color / 640 x 480</b> 256 simultaneous colors 30 to 1		
Graphics - controller Graphics - external Graph - arch/data path	Chips and Technologies™ 65545 with 1 MB DRAM External SVGA to 1024 x 768 w/ 256 colors up to 70 Hz VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt		
Memory - std / max Mem - upgrade	<b>8 MB / 24 MB</b> 70 ns / non-parity / 3.3 volt / fast page 1 socket for one JEDEC 72 pin SO DIMM of 4 or 16 MB		
Keyboard / # of keys Keyboard slope Pointing Ext keyboard support	Full size alp/num / 85 (8 Fn key functions) Yes (legs pop out) <b>TrackPoint III™</b> Yes (with option cable or Port Replicator)	<b>Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); CD-ROM is not removable</b>	
Dimensions (cubic in) Weight (with battery) Battery - type Battery - life Charge time - on / off	11.7 x 8.3 x 2.0" (194 cubic inches) 6.4 pounds NiMH / non-intelligent 2.3 hours 6 hrs / 2 hrs		
Architecture Docking Station Port replicator PCMCIA™ 2.1 slots Serial / parallel ports Other features	ISA (audio, PCMCIA, diskette, serial, parallel, 240 pin external expansion) VL-Bus 2.0 / 32 bit / 25 MHz (graphics, disk) None Port Replicator and Charger (with built-in battery charger and palm rest) 2 Type I or 2 Type II or 1 Type III One 9 pin; 16550A / one (IEEE P1284, EPP, ECP, bidirectional) APM-aware BIOS / Universal AC adapter (35 watts) / Phoenix™ BIOS		
MPEG decoder Data/fax modem Audio support Audio in/out jacks Infrared ports	None None <b>16 bit audio chip / 18 voice MIDI FM Synthesis / ESS1688 with OPL3 Internal speaker / .5 watt / dial volume control / internal microphone</b> Input jack (stereo) / microphone jack / output jack (stereo) Joystick/MIDI port (includes Joystick/MIDI cable) <b>Infrared port in back / IrDA 1.0 compatible / up to 115 Kbps</b>		
Security	Power-on password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)		
Preinstalled software Warranty	Windows 95 with utilities and applications (listed to right) <b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		
<p>The <b>Port Replicator and Charger</b> provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.</p> <p>The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.</p> <p>Port Replicator and Charger connectors:</p> <ul style="list-style-type: none"> <li>- Serial (RS-232, 9 pin)</li> <li>- Parallel (EPP, ECP, 25 pin)</li> <li>- External display (15 pin)</li> <li>- Keyboard</li> <li>- Mouse</li> <li>- Diskette drive (26 pin)</li> <li>- Game with MIDI support (15 pin)</li> <li>- Audio in (3.5 mm)</li> <li>- Audio out (3.5 mm)</li> <li>- DC input connector</li> <li>- Spare battery connector (to charge 2nd battery)</li> </ul>	<p>Options for ThinkPad 365:</p> <ul style="list-style-type: none"> <li>- 4 MB SO DIMM 3.3v non-parity 72 pin 92G7287</li> <li>- 16 MB SO DIMM 3.3v non-parity 72 pin 92G7293</li> <li>- 810 MB EIDE HDD 13 ms Mode 4 42H4012</li> <li>- 1.08 GB EIDE HDD 13 ms Mode 4 69H7956</li> <li>- Port Replicator and Charger (old) 38H6303 replaced by 75H7529</li> <li>- NiMH Battery Pack 38H6304</li> <li>- 35 watt AC Adapter - 2 pin 85G6719</li> </ul> <p>Setup is entered by Ctrl + Alt + F11 from any full-screen DOS prompt</p> <p>Fn + F2 = Battery guage          Fn + F3 = Standby          Fn + F4 = Suspend          Fn + F7 = LCD/CRT/Simultaneous          Fn + F8 = Reverse video          Fn + F11 = Power mgmt          Fn + F12 = Hibernation          PgUp = Speaker enable          PgDn = Speaker disable</p> <p>System enters hibernation mode when keyboard is lifted up</p> <p>Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver</p>		<b>FEATURES OF 365 MODELS</b> <p>Product Map          LED indicator panel          Plug and Play 1.0a          Non-disruptive battery exchange          Doze, standby, suspend, safe suspend, and hibernation modes          US EPA Energy Star compliant          Personalized nameplate in indentation          Personalization screen at startup  <b>International Warranty Service</b>  <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b>  <b>IBM and dealer warranty/service Online Housecall (remote diagnostics)</b></p>

**ThinkPad EasyServ™:** customer calls IBM HelpCenter, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

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 No warranties are expressed or implied in this summary  
 (365ED) Compiled by Roger Dodson, IBM. October 1996



# IBM ThinkPad 365X (Fall 1996 models) - withdrawn

<b>IBM® ThinkPad®:</b> >= 365X		
10.4" SVGA TFT or 11.3" SVGA DSTN color		
Processor type	<b>Pentium® 120/60 or 133/66MHz</b> / 64-bit transfer to memory	
Processor upgrade	None	
L2 cache	None (not upgradeable)	
Diskette drive	Internal 3.5" 1.44MB m (not removable)	
External FDD port	External FDD port (used if purchase CD-ROM upgrade)	
Internal CD-ROM	None standard / 4 x or 8 x CD-ROM option available which includes an external diskette drive (not customer install)	
Price		
Type - model	2625-3E9	2625-2E9
Preload (see side)	<b>Windows 95</b>	<b>Windows 95</b>
Avail / withdrawn date	October 1996 / July 1997	October 1996 / October 1997
Pentium speed	<b>120/60MHz</b>	<b>133/66MHz</b>
Disk - size / ms	<b>810MB</b> / 13ms ○ / PIO Mode 4	<b>1.08GB</b> / 13ms ○ / PIO Mode 4
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	
Display - size and type	<b>10.4 inch TFT color</b>	<b>11.3 inch DSTN color</b>
Display - technology	<b>SVGA</b> / 640x480 or 800x600 <b>Black Matrix TFT</b> - active matrix 65,536 simultaneous colors / 100 to 1	<b>SVGA</b> / 640x480 or 800x600 <b>Dual scan</b> 256 simultaneous colors / 30 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1 MB fast page DRAM / 70ns	
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt	
Memory - std / max	<b>8MB</b> / 40MB	
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32MB	
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)	
Keyboard slope	Yes (legs pop out)	
Pointing / palm rest	<b>TrackPoint III™</b> / external keyboard support (w/ option cable or Port Replicator)	
Dimensions	11.7 x 8.3 x 1.9" (185 cu in)	
Weight	6.1 pounds (2.76 kg)	5.9 pounds (2.67 kg)
Battery - type	NiMH/non-intelligent	<b>Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); diskette drive is not removable</b>
Battery - life	2.5 hours	
Charge time - on / off	1.5 hrs / 1.2 hrs	
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)	
Docking Station	None	
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)	
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot	
Video in/out	None	
MPEG decoder	None	
Data/fax modem	None	
Audio support	<b>16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688</b> <b>One internal speaker / .5 watt / dial volume control / internal microphone</b>	
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port	
Infrared ports	<b>Infrared port in back / IrDA 1.0 compatible / up to 115Kbps</b>	
Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Security keyhole (requires cable) / keyboard lock (requires cable)	
Preinstalled software	Microsoft Windows 95 wth applications (listed on right)	
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	
<p>The <b>Port Replicator and Charger</b> provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.</p> <p>The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.</p> <p>Port Replicator and Charger connectors:</p> <ul style="list-style-type: none"> <li>- Serial (RS-232, 9 pin)</li> <li>- Parallel (EPP, ECP, 25 pin)</li> <li>- External display (15 pin)</li> <li>- Keyboard</li> <li>- Mouse</li> <li>- Diskette drive (26 pin)</li> <li>- Game with MIDI support (15 pin)</li> <li>- Audio in (3.5 mm)</li> <li>- Audio out (3.5 mm)</li> <li>- DC input connector</li> <li>- Spare battery connector (to charge 2nd battery)</li> </ul>		<p>Options for ThinkPad 365X:</p> <ul style="list-style-type: none"> <li>- <b>8MB SO DIMM 3.3v NP EDO 64-bit</b>    <b>92G7340</b></li> <li>- <b>16MB SO DIMM 3.3v NP EDO 64-bit</b>    <b>92G7341</b></li> <li>- <b>32MB SO DIMM 3.3v NP EDO 64-bit</b>    <b>92G7342</b></li> <li>- 810MB EIDE HDD 13ms                    42H4012</li> <li>- 1.08GB EIDE HDD 13ms                   69H7956</li> <li>- 1.4GB EIDE HDD 3L 12.5 mm            82H8161</li> <li>- 2.1GB HDD 13ms                            82H8175</li> <li>- Port Replicator and Charger            75H7529</li> <li>- NiMH Battery Pack                        38H6304</li> <li>- 35 watt AC Adapter (2 pin barrel)      85G6719</li> <li>- 35 watt AC Adapter (slim, 2 pin)       76H0139</li> <li>- 365X 4 x CD-ROM Drive                  73H7225</li> <li>- 8 x CD-ROM                                  83H6726</li> </ul> <p>Fn + F2 = Battery guage Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation</p> <p>Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver</p>
		<p><b>WINDOWS 95 PRELOAD</b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 95</li> <li>- Online User's Guide</li> <li>- ThinkPad Features</li> <li>- PC Card Director 4.0</li> <li>- Diskette Factory</li> <li>1. Triton CoSession™ Host</li> <li>2. Compuserv for Windows</li> <li>3. NetFinity for Windows 95</li> <li>4. Puma TranXit™</li> <li>- Lotus SmartSuite 96 CD-ROM</li> </ul>
		<p>Easy-Setup is entered by holding F1 when turning on.</p> <p>810MB = DMA Mode 2 or PIO Mode 4 1.08GB = DMA Mode 2 or PIO Mode 4</p>
		<p><b>FEATURES OF 365 MODELS</b></p> <p>Quick Setup Guide LED indicator panel Plug and Play 1.0a Doze, standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b> <b>(http://www.pc.ibm.com/support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b></p>

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
○ = Removable

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No warranties are expressed or implied in this summary  
(365X96) Compiled by Roger Dodson, IBM. May 1999

# IBM ThinkPad 365XD - withdrawn

<b>IBM® ThinkPad®:</b> <b>365XD</b> 10.4" SVGA DSTN / 10.4" SVGA TFT / 11.3" SVGA DSTN		Key differences between 365ED and 365XD:	
Processor type	<b>Pentium® 100/66 or 120/60MHz</b> / 64-bit transfer to memory	<b>365ED</b>	<b>365XD</b>
Processor upgrade	None	5x86c 100/33MHz	Pentium 100, 120, 133
L2 cache	None (not upgradeable)	8MB fast page (to 24MB)	8MB EDO (to 40MB)
Diskette drive	External 3.5" 1.44MB (connects to back of system) / enclosed in a case with a cable / use simultaneously with CD-ROM	VL-Bus graphics and disk	PCI graphics and disk
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	10.4" VGA 640 x 480 LCD	10.4" or 11.3" SVGA
CD-ROM (not remove)	<b>5.25" CD-ROM / 4 x speed</b> / multi-session / XA / front loaded / ATAPI	540MB disk standard	810MB, 1.08, 1.35GB
Price		Phoenix BIOS	IBM BIOS
Type - model	≈ 2625-6E3	≈ 2625-DEF	≈ 2625-DEE
Preload (see side)	<b>Windows 95</b>	<b>Windows 95</b>	<b>OS/2 Warp Connect</b>
Avail / withdrawn date	May 1996 / January 1997	May 96 / Jan 97	July 1996 / Jan 1997
Pentium speed	<b>100/66MHz</b>	<b>120/60MHz</b>	<b>120/60MHz</b>
Disk - size / ms	<b>810MB</b> / 13ms ○ / PIO Mode 4	<b>1.08GB</b> / 13ms ○ / PIO Mode 4	<b>1.08GB</b> / 13ms ○ / PIO Mode 4
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	<b>10.4 inch DSTN color</b>	<b>10.4 inch TFT color</b>	<b>11.3 inch DSTN color</b>
Display - technology	<b>SVGA</b> / 640x480 or 800x600 <b>Dual scan</b> 256 sim colors / 25 to 1 contrast ratio	<b>SVGA</b> / 640x480 or 800x600 <b>Black Matrix TFT</b> - active matrix 65,536 sim col / 100 to 1 contrast ratio	<b>SVGA</b> / 640x480 or 800x600 <b>Dual scan</b> 256 sim colors / 30 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1MB fast page DRAM / 70ns		
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors		
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt		
Memory - std / max	<b>8MB</b> / 40MB		
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32 MB		
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)		
Keyboard slope	Yes (legs pop out)		
Pointing / palm rest	<b>TrackPoint III™</b> / external keyboard support (w/ option cable or Port Replicator)		
Dimensions	11.7 x 8.3 x 1.9" (185 cubic inches)		
Weight	6.4 pounds (2.9 kg)		
Battery - type	NiMH / non-intelligent	<b>Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); CD-ROM is not removable</b>	
Battery - life	2.5 hours		
Charge time - on / off	1.5 hrs / 1.2 hrs		
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)		
Docking Station	None		
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)		
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	<b>16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688</b> <b>One internal speaker / .5 watt / dial volume control / internal microphone</b>		
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port		
Infrared ports	<b>Infrared port in back / IrDA 1.0 compatible / up to 115Kbps</b>		
Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / keyboard lock (requires Kensington)		
Preinstalled software	Microsoft Windows 95 wth applications (listed on right)		
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		
<p>The <b>Port Replicator and Charger</b> provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.</p> <p>The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.</p> <p>Port Replicator and Charger connectors:</p> <ul style="list-style-type: none"> <li>- Serial (RS-232, 9 pin)</li> <li>- Parallel (EPP, ECP, 25 pin)</li> <li>- External display (15 pin)</li> <li>- Keyboard</li> <li>- Mouse</li> <li>- Diskette drive (26 pin)</li> <li>- Game with MIDI support (15 pin)</li> <li>- Audio in (3.5 mm)</li> <li>- Audio out (3.5 mm)</li> <li>- DC input connector</li> <li>- Spare battery connector (to charge 2nd battery)</li> </ul>		<p>Options for ThinkPad 365XD:</p> <ul style="list-style-type: none"> <li>- <b>8MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7340</b></li> <li>- <b>16MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7341</b></li> <li>- <b>32MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7342</b></li> <li>- 810MB EIDE HDD 13ms 42H4012</li> <li>- 1.08GB EIDE HDD 13ms 69H7956</li> <li>- 1.4GB EIDE HDD 3L 12.5 mm 82H8161</li> <li>- 2.1GB HDD 13ms 82H8175</li> <li>- Port Replicator and Charger 75H7529</li> <li>- NiMH Battery Pack 38H6304</li> <li>- 35 watt AC Adapter (2 pin barrel) 85G6719</li> <li>- 35 watt AC Adapter (slim, 2 pin) 76H0139</li> <li>- 8 x CD-ROM 83H6726</li> </ul> <p>Fn + F2 = Battery guage Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation</p> <p>Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver</p>	
		<p>Easy-Setup is entered by holding F1 when turning on.</p> <p>810MB = DMA Mode 2 or PIO Mode 4 1.08GB = DMA Mode 2 or PIO Mode 4</p>	
		<p><b>FEATURES OF 365 MODELS</b></p> <p>Quick Setup Guide LED indicator panel Plug and Play 1.0a Doze, standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b> (<a href="http://www.pc.ibm.com">http://www.pc.ibm.com</a>) support <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b></p>	

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(365XD) Compiled by Roger Dodson, IBM. May 1999

# IBM ThinkPad 365XD (Fall 1996+ models) - withdrawn

<b>IBM® ThinkPad®:</b> >= 365XD		10.4" SVGA TFT / 11.3" SVGA DSTN / 11.3" SVGA TFT - CD-ROM	
Processor type	<b>Pentium® 120/60 or 133/66MHz</b> / 64-bit transfer to memory		
Processor upgrade	None		
L2 cache	None (not upgradeable)		
Diskette drive	External 3.5" 1.44MB (connects to back of system) / enclosed in a case with a cable / use simultaneously with CD-ROM		
External FDD port	External FDD port (works with standard external diskette; no kit required)		
CD-ROM (not remove)	<b>5.25" CD-ROM / 4 x speed   5.25" CD-ROM / 6 x speed</b> (all systems upgradeable to 8 x CD-ROM)		
CD-ROM features	Multi-session / XA / front loaded / ATAPI / not bootable / upgradeable		
Type - model (code)	2625-4E9 (Clark 4)	2625-GE9 (Clark 4.5)	2625-1E9 (Clark 4)
Preload (see side)	<b>Windows 95</b>	<b>Windows 95 OSR2</b>	<b>Windows 95</b>
Avail / withdrawn date	October 1996 / July 1997	Feb 1997 / July 1997	October 1996 / October 1997
Pentium speed	<b>120/60MHz</b>	<b>120/60MHz</b>	<b>133/66MHz</b>
Disk - size / ms	<b>810MB</b> / 13ms ○	<b>1.08GB</b> / 13ms ○	<b>1.35 GB</b> / 13ms ○ / PIO Mode 4
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	<b>10.4 inch TFT color</b>	<b>11.3 inch TFT color</b>	<b>11.3 inch DSTN color</b>
Display - technology	<b>SVGA</b> / 640x480 or 800x600 <b>Black Matrix TFT</b> - active matrix 65,536 sim col / 100 to 1 contrast ratio	<b>SVGA</b> / 640x480 or 800x600 <b>Black Matrix TFT</b> - active matrix 65,536 sim col / 100 to 1 cont ratio	<b>SVGA</b> / 640x480 or 800x600 Dual scan 256 sim colors / 30 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9320 / 32-bit SVGA accelerator / 1 MB fast page DRAM / 70 ns		
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 w/ 256 colors		
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt		
Memory - std / max	<b>8MB</b> / 40MB		
Memory - features	70ns / non-parity / 3.3 volt / EDO / 1 socket for one JEDEC 144 pin EDO SO DIMMs of 8, 16, or 32 MB		
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions)		
Keyboard slope	Yes (legs pop out)		
Pointing / palm rest	<b>TrackPoint III™</b> / external keyboard support (w/ option cable or Port Replicator)		
Dimensions	11.7 x 8.3 x 1.9" (185 cubic inches)		
Weight	6.4 pounds (2.9 kg)	6.1 pounds (2.77 kg)	6.2 pounds (2.79 kg)
Battery - type	NiMH / non-intelligent	<b>Liftable (pop-up) keyboard to access and remove battery (and upgrade memory and disk); CD-ROM is not removable</b>	
Battery - life	2.0 hours		
Charge time - on / off	1.5 hrs / 1.2 hrs		
Architecture	ISA (audio, PCMCIA, diskette, serial, parallel, infrared) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics)		
Docking Station	None		
Port replicator	Port Replicator and Charger (with built-in battery charger and palm rest)		
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	<b>16-bit audio chip / 18 voice MIDI FM Synthesis / ESS1688</b> <b>One internal speaker / .5 watt / dial volume control / internal microphone</b>		
Audio in/out jacks	Input jack (stereo) / microphone jack / output jack (stereo) / no joystick port		
Infrared ports	<b>Infrared port in back / IrDA 1.0 compatible / up to 115Kbps</b>		
Security	Power-on pwd / Hard disk pwd / Supervisor pwd / Security keyhole (requires cable) / keyboard lock (requires cable)		
Preinstalled software	Microsoft Windows 95 wth applications (listed on right)		
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		
<p>The <b>Port Replicator and Charger</b> provide cable management, a battery charger for an optional second battery, a palm rest when installed on the system, and has complete port replication.</p> <p>The Port Replicator can charge a battery whether or not a ThinkPad is connected to it. When the ThinkPad is attached to the Port Replicator, it will attempt to recharge the battery in ThinkPad first (if there is one) before charging the battery in the Port Replicator.</p> <p>Port Replicator and Charger connectors:</p> <ul style="list-style-type: none"> <li>- Serial (RS-232, 9 pin)</li> <li>- Parallel (EPP, ECP, 25 pin)</li> <li>- External display (15 pin)</li> <li>- Keyboard</li> <li>- Mouse</li> <li>- Diskette drive (26 pin)</li> <li>- Game with MIDI support (15 pin)</li> <li>- Audio in (3.5 mm)</li> <li>- Audio out (3.5 mm)</li> <li>- DC input connector</li> <li>- Spare battery connector (to charge 2nd battery)</li> </ul>		<p>Options for ThinkPad 365XD:</p> <ul style="list-style-type: none"> <li>- <b>8MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7340</b></li> <li>- <b>16MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7341</b></li> <li>- <b>32MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7342</b></li> <li>- 810MB EIDE HDD 13ms 42H4012</li> <li>- 1.08GB EIDE HDD 13ms 69H7956</li> <li>- 1.4GB EIDE HDD 3L 12.5 mm 82H8161</li> <li>- 2.1GB HDD 13ms 82H8175</li> <li>- Port Replicator and Charger 75H7529</li> <li>- NiMH Battery Pack 38H6304</li> <li>- 35 watt AC Adapter (2 pin barrel) 85G6719</li> <li>- 35 watt AC Adapter (slim, 2 pin) 76H0139</li> <li>- 8 x CD-ROM 83H6726</li> <li>- 2.1GB HDD 13ms 4000 rpm 82H8175</li> </ul> <p>Fn + F2 = Battery gauge Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation</p> <p>Disk is not removable (like 755/760 systems), but it can be upgraded via a screwdriver</p>	
		<p><b>WINDOWS 95 PRELOAD MODELS 4E9 and 1E9</b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 95</li> <li>- Online User's Guide</li> <li>- ThinkPad Features Program</li> <li>- PC Card Director 4.0</li> <li>- Diskette Factory</li> <li>1. Triton CoSession™ Host</li> <li>2. CompuServ for Windows</li> <li>3. NetFinity for Windows 95</li> <li>4. Puma TranXit™</li> <li>- Lotus SmartSuite 96 CD-ROM</li> </ul> <p><b>WINDOWS 95 PRELOAD MODELS GE9 and FE9</b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 95 OSR2</li> <li>- Online User's Guide</li> <li>- ThinkPad Features Program</li> <li>- PC Card Director 4.0</li> <li>- Diskette Factory</li> <li>1. Triton CoSession™ Host</li> <li>2. CompuServ for Windows</li> <li>3. NetFinity for Windows 95</li> <li>4. Puma TranXit™</li> <li>5. IntelliLink Connect</li> <li>6. IBM Anti-Virus</li> <li>7. IGN/Netscape Internet</li> <li>8. IntelliQuest Registration Mailer</li> <li>9. Ergonomics</li> <li>- Lotus SmartSuite 96 CD-ROM</li> </ul>	
		<p>Easy-Setup is entered by holding F1 when turning on.</p> <p>810MB = DMA Mode 2 or PIO Mode 4 1.08GB = DMA Mode 2 or PIO Mode 4 1.35GB = DMA Mode 2 or PIO Mode 4</p> <p><b>FEATURES OF 365 MODELS</b></p> <p>Quick Setup Guide LED indicator panel Plug and Play 1.0a Doze, standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b></p>	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
○ = Removable

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No warranties are expressed or implied in this summary  
(365XD96) Compiled by Roger Dodson, IBM. May 1999

# IBM ThinkPad 370C (non-US) - withdrawn

<b>IBM® ThinkPad®:</b>		≧ <b>370C</b> TFT color		<b>ThinkPad 370C is positioned between the ThinkPad 360 and ThinkPad 755 family</b>	
Processor type		<b>IntelDX4</b>		<b>Advantages over ThinkPad 360CE</b>	
Processor speed		<b>75/25 MHz / 3.3 volt</b>		⊕ <b>DX4 75/25 MHz</b> (vs DX2 50/25)	
Memory cache		16 KB internal (no L2 cache)		⊕ <b>10.4" color TFT</b> (vs 8.4" color TFT)	
Coprocessor socket		Integrated in DX4		⊕ <b>Black Matrix TFT</b> (vs not Black Matrix)	
Processor / L2 upgrade		None		⊕ <b>36 MB max mem</b> (vs 20 MB max memory)	
Removable diskette		3.5" 1.44 MB ○ / supports internal 2.88 MB diskette			
Removable CD-ROM		None			
Price				<b>ALL 370C MODELS</b>	
Type - model		9545-QPC	9545-QPD	84G2152	<b>Liftable (pop-up) keyboard to access and remove diskette drive, disk, battery, and memory</b>
Removable disk - size		<b>340 MB</b> □ ○	<b>540 MB</b> □ ○	84G6539	
Hard drive - speed		14 ms	14 ms	84G2153	
Available date		May 1995	May 1995	92G7232	
Withdrawn date		May 1996	May 1996	92G7233	
Display - type		<b>VGA color / 640 x 480</b>		92G7234	The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.  Diskette drive can be removed ① to reduce weight ② to insert cellular modem (CDPD) ③ to insert TV Tuner (for on screen TV and VCR playback) ④ to insert 2.88 MB diskette ⑤ to add other third party options
Display - colors		256 simultaneous colors		92G7236	
Display - technology		<b>Black Matrix TFT - active matrix</b>		92G7237	
Display - diagonal size		<b>10.4 inch / 100 to 1 contrast ratio / 180 degree tilt</b>		92G7424	
Graphics - controller		WD90C24A Rev B with 1 MB DRAM			
Graphics - vendor		Western Digital / External SVGA to 1024 x 768 with 256 colors (up to 75 Hz)			
Graph - arch/data path		VL-Bus local bus / 32 bit / Simultaneous LCD and CRT			
Memory - std / max		4 MB / 36 MB 70 ns / non-parity / 5 volt			
Mem - sockets empty		1 socket			
Mem - options available		2, 4, 8, 16 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter			
Keyboard / # of keys		Full size alp/num / 85 keys			
Fn key functions		8 (in any appl)			
Keyboard slope		Yes (legs pop out)			
Mouse/pointing		<b>TrackPoint II™</b>			
Ext keyboard support		Yes (with optional cable)			
Dimensions		11.7 x 8.3 x 2.0"			
Cubic inches		194 inches			
Color		Black			
Weight (with battery)		6.3 pounds			
Battery - type		Nickel hydride (NiMH) / intelligent			
Batt - life (per battery)		2.9 to 8 hours			
Charge time - on / off		2 hrs / 1.5 hr			
Architecture		AT bus (ISA)			
Docking Station		Dock I and II			
Port replicator		Port Replicator I and II			
PCMCIA™ 2.1 slots		<b>2 Type I or 2 Type II or 1 Type III</b>			
Serial / parallel ports		Yes (one 9 pin) 16550B / Yes (EPP)			
Other features		APM-aware BIOS / Selectable boot AC adapter, 35 watts, worldwide, 3 pin, not wallmount Audio beep only			
Audio support		Power-on password / Hard disk password / Supervisor Password / Hardware security loop (secures unit and prevents opening keyboard) / PCMCIA card lock / Optional Security Base			
Security					
Preinstalled software		IBM DOS 7.0, Windows™ 3.11, and all appls listed to right:			
Warranty		1 year - ThinkPad EasyServ only			
Warranty options		Onsite via special bid only			

<p>The ThinkPad 370 family has the same physical design as the ThinkPad 360, 750, and 755 family.</p> <p>PC Card Director™ (EasyPlaying) is preinstalled and on the utility diskette for DOS, Windows and OS/2. It provides:</p> <ol style="list-style-type: none"> <li>automatic config of many PCMCIA cards;</li> <li>visual/audible confirmation of insertion/removal of cards;</li> <li>ability to automatically launch an appl (e.g. async emulation) when card inserted;</li> <li>status and info on PCMCIA cards installed.</li> </ol> <p>Easy-Setup is entered by holding F1 when turning on. Easy-Setup, BIOS, and diagnostics are located in flash memory.</p>		<p>Compatible in all 360 family, 370 family, 750 family, and 755 family:</p> <table border="0"> <tr><td>- Disks:</td><td>170 MB IDE</td><td>66G2847</td></tr> <tr><td></td><td>250 MB IDE</td><td>84G2391</td></tr> <tr><td></td><td>340 MB IDE</td><td>66G2849</td></tr> <tr><td></td><td>540 MB IDE</td><td>84G2150</td></tr> <tr><td></td><td>810 MB IDE</td><td>84G8250</td></tr> <tr><td></td><td>1.2 GB IDE</td><td>85G8562</td></tr> <tr><td>- Dock I (1 slot / 1 bay)</td><td></td><td>3545001</td></tr> <tr><td>- Dock II (2 slot / 2 bay)</td><td></td><td>3546001</td></tr> <tr><td>- Port Replicator I (w/ PCMCIA)</td><td></td><td>66G3510</td></tr> <tr><td>- Port Replicator II</td><td></td><td>66G3520</td></tr> <tr><td>- 1.44 MB diskette</td><td></td><td>std in newer</td></tr> <tr><td>- 2.88 MB diskette</td><td></td><td>66G0108</td></tr> </table> <p>Options for 370C:</p> <table border="0"> <tr><td>- TV Tuner</td><td>66G3689</td></tr> <tr><td>- CDPD Mobile module</td><td>71G2560</td></tr> <tr><td>- Car Battery Adapter</td><td>49G2167</td></tr> <tr><td>- FDD External Attachment Kit</td><td>66G3618</td></tr> </table> <p>IC DRAM memory from ThinkPad 700, 720, 750, and 755 will work but without parity</p>		- Disks:	170 MB IDE	66G2847		250 MB IDE	84G2391		340 MB IDE	66G2849		540 MB IDE	84G2150		810 MB IDE	84G8250		1.2 GB IDE	85G8562	- Dock I (1 slot / 1 bay)		3545001	- Dock II (2 slot / 2 bay)		3546001	- Port Replicator I (w/ PCMCIA)		66G3510	- Port Replicator II		66G3520	- 1.44 MB diskette		std in newer	- 2.88 MB diskette		66G0108	- TV Tuner	66G3689	- CDPD Mobile module	71G2560	- Car Battery Adapter	49G2167	- FDD External Attachment Kit	66G3618	<p><b>FEATURES OF 370C FAMILY</b></p> <p>3 power saving modes: standby, suspend, and hibernation</p> <p>Personalized nameplate in molded indentation</p> <p>External VGA is ISO capable (75 Hz)</p> <p>Upgradeable disks: 170 MB, 250 MB, 340MB, 540 MB, 810 MB, 1.2 GB (all 2.5 inch)</p> <p>Battery life indicator</p> <p>Non-disruptive battery exchange</p> <p>US EPA Energy Star compliant</p>	
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**ThinkPad EasyServ™:** customer calls 1-800-565-3344 in Canada, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

□ = Upgradeable; ○ = Removable; ≧ = withdrawn from marketing

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(370) Compiled by Roger Dodson, IBM. June 1996

# IBM ThinkPad 380 - withdrawn

<b>IBM® ThinkPad®:</b>	<b>× 380</b> 12.1" SVGA DSTN	
Processor type	<b>Pentium® 150/60 MHz</b> / 64 bit transfer to L2 cache / 64 bit transfer to memory	
Processor upgrade	None	
L2 cache	<b>256 KB</b> / write-through / direct mapped / 8 ns / synchronous pipelined burst	
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side	
External FDD port	None since diskette internal	
CD-ROM	None standard / 8 x CD-ROM internal option available (not customer install)	
Type - model (code)	<b>2635-10U</b>	<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up</b>
Preload (see side)	<b>Windows 95 OSR2</b>	
Avail / withdrawn date	May 1997 / January 1998	
Pentium speed	<b>150/60 MHz</b>	
Disk - size / ms	<b>1.08 GB</b> / 13 ms / PIO Mode 4	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer	
Display - size and type	<b>12.1 inch DSTN color</b>	
Display - technology	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Dual scan</b> 65,536 simultaneous colors / 30 to 1 contrast	
Graphics - controller	<b>NeoMagic™ MagicGraph128ZV™</b> (NM2093) / 128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw	
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors	
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt	
Memory - std / max	<b>16 MB</b> / 80 MB / non-parity / 3.3 volt / EDO	
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw	
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator	<p style="text-align: center;"><b>WINDOWS 95 PRELOAD</b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 95 OSR2 (FAT16)</li> <li>- Online User's Guide</li> <li>- ThinkPad Features Program</li> <li>- SystemSoft CardWorks™</li> <li>- Diskette Factory and Utilities</li> <li>1. Triton CoSession™ Host</li> <li>2. NetFinity for Windows 95</li> <li>3. Puma TranXit™</li> <li>4. IntelliLink Connect</li> <li>5. IBM Anti-Virus</li> <li>6. IGN/Netscape Navigator browser</li> <li>7. Media Player</li> <li>8. IntelliQuest Registration Mailer</li> <li>9. CompuServe WinCIM</li> <li>10. Lotus Organizer</li> <li>11. Ergonomics</li> <li>12. Marketing Demo</li> <li>- Lotus SmartSuite CD-ROM</li> <li>- Recovery CD-ROM with boot diskette</li> <li>- Windows 95 CD-ROM (no installation)</li> </ul>
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator	
Pointing / palm rest	TrackPoint III™ / no drag lock keys	
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)	
Weight	6.6 pounds (2.96 kg)	
Battery - type / life	NiMH / non-intelligent / 2.2 hrs	
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs	
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCiset / Intel 82371MX PIIX / NS PC87338	
Docking Station	None	
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator	
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>Zoomed Video support in lower slot</b> / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Univers AC adapter, barrel (35 watts) / Selectable boot	
Video in/out	None	
Data/fax modem	None	
Audio support	<b>16 bit audio chip</b> / 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex	
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port	
Infrared ports	<b>Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps</b>	
Security	Power-on password / Hard disk password / security keyhole	
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)	
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	
Service options	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years	
<b>The ThinkPad Enhanced Port Replicator</b>	provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:	
	- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator	
	Port Replicator connectors:	
	- USB	
	- Serial (9 pin); parallel (EPP, ECP, 25 pin)	
	- External display (15 pin)	
	- Keyboard	
	- Mouse	
	- Audio in (3.5 mm)	
	- Audio out (3.5 mm)	
	- Joystick/MIDI port (15 pin) - not on system	
	- External diskette drive connt - not on system	
	- Power connector (requires AC power; can not run on battery)	
	Features of the PC Card slots:	
	- Two Type III slots (side by side)	
	- PC Card Standard 95 compliant	
	- CardBus compliant (PCI 2.1 / 32 bit)	
	- 8/16 bit PC Card support (no Zoomed Video)	
	- Texas Instruments PCI1131 controller	
	- Requires no PCI-to-PCI bridge	
	Options for ThinkPad 380:	
	- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>92G7340</b>	
	- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>92G7341</b>	
	- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>92G7342</b>	
	- <b>64 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>76H0268</b>	
	- ThinkPad 560 Port Replicator            46H4209	
	- ThinkPad 380/385 Port Replicator       84G1316	
	- ThinkPad Enhanced Port Replicator    11J8997	
	- Li-Ion Battery Pack                        73H9793	
	- 35 watt AC Adapter (slim, barrel)      76H0139	
	- 8 x CD-ROM                                  73H9795	
	- 2.1 GB HDD 13 ms                         73H9797	
	- 3.2 GB Disk 13 ms                         02K0487	
	- 5.1 GB Disk 12 ms                         02K0506	
	- 33.6 Kbps Modem with XJACK            55H6759	
	- 56K PC Card Modem Kit                    04K0052	
	Easy-Setup is entered by holding F1 when turning on.	
	1.08 GB = DMA Mode 2 or PIO Mode 4	
	1.35 GB = DMA Mode 2 or PIO Mode 4	
	2.1 GB = DMA Mode 2 or PIO Mode 4	
	3.2 GB = Ultra DMA/33 or PIO Mode 4	
	5.1 GB = Ultra DMA/33 or PIO Mode 4	
	<b>FEATURES OF 380 MODELS</b>	
	Quick Setup Guide	
	System Status Indicators	
	Plug and Play 1.0a	
	Standby, suspend, safe suspend (RediSafe), and hibernation modes	
	US EPA Energy Star compliant	
	Personalization screen at startup	
	<b>International Warranty Service</b>	
	<b>IBM SystemXtra Program</b>	
	<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b>	
	<b>(http://www.pc.ibm.com) support</b>	
	<b>IBM and dealer warranty/service</b>	
	<b>Online Housecall (remote diagnostics)</b>	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

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No warranties are expressed or implied in this summary  
(380) Compiled by Roger Dodson, IBM. December 1997



# IBM ThinkPad 380D - withdrawn

<b>IBM® ThinkPad®:</b>	<b>× 380D</b> 12.1" SVGA DSTN or TFT / 8 x CD-ROM																																
Processor type	<b>Pentium® 150/60 MHz or 150/60 MHz with MMX™ technology/</b> 64 bit transfer to L2 cache / 64 bit transfer to memory None																																
Processor upgrade	None																																
L2 cache	<b>256 KB</b> / write-through / direct mapped / 8 ns / synchronous pipelined burst																																
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side																																
External FDD port	None since diskette internal																																
CD-ROM	<b>5.25" CD-ROM / 8 x speed/</b> multi-session / XA / ATAPI / not bootable / not removable / on right side																																
Type - model (code)	<b>2635-2AU</b>	<b>2635-3AU</b>	<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up</b>																														
Preload (see side)	<b>Windows 95 OSR2</b>	<b>Windows 95 OSR2</b>																															
Avail / withdrawn date	May 1997 / January 1998	May 1997 / January 1998																															
Pentium speed	<b>150/60 MHz</b>	<b>150/60 MHz with MMX technology</b>																															
Disk - size / ms	<b>1.35 GB</b> / 13 ms / PIO Mode 4	<b>2.1 GB</b> / 13 ms / PIO Mode 4																															
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer																																
Display - size and type	<b>12.1 inch DSTN color</b>	<b>12.1 inch TFT color</b>																															
Display - technology	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Dual scan</b> 65,536 sim colors / 30 to 1 contrast	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Black Matrix TFT</b> - active matrix 65,536 simultaneous colors / 100 to 1 contrast ratio																															
Graphics - controller	<b>NeoMagic™ MagicGraph128ZV™</b> (NM2093) / 128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw																																
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Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)																																
Weight	7.1 pounds (3.2 kg)	6.9 pounds (3.1 kg)																															
Battery - type / life	NiMH / non-intelligent / 2.0 hrs		Li-Ion / non-intelligent / 2.6 hrs																														
Charge time - on / off	3.5 to 9 hrs / 2.5 to 3.5 hrs																																
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCiset / Intel 82371MX PIIX / NS PC87338																																
Docking Station	None																																
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator																																
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>Zoomed Video support in lower slot</b> / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)																																
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)																																
Other features	APM-aware BIOS / Univers AC adapter, barrel (35 watts) / Selectable boot																																
Video in/out	None																																
Data/fax modem	None																																
Audio support	<b>16 bit audio chip</b> / 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex Input/microphone jack (stereo) / output jack (stereo) / no joystick port <b>Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps</b>																																
Audio in/out jacks																																	
Infrared ports																																	
Security	Power-on password / Hard disk password / security keyhole																																
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)																																
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years																																
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<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 OSR2 (FAT16) - Online User's Guide - ThinkPad Features Program - SystemSoft CardWorks™ - Diskette Factory and Utilities 1. Triton CoSession™ Host 2. NetFinity for Windows 95 3. Puma TranXit™ 4. IntelliLink Connect 5. IBM Anti-Virus 6. IGN/Netscape Navigator browser 7. Media Player 8. IntelliQuest Registration Mailer 9. CompuServe WinCIM 10. Lotus Organizer 11. Ergonomics 12. Marketing Demo - Lotus SmartSuite CD-ROM - Recovery CD-ROM with boot diskette - Windows 95 CD-ROM (no installation)																																	
Fn + F2 = Battery guage Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation																																	
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<b>FEATURES OF 380 MODELS</b> Quick Setup Guide System Status Indicators Plug and Play 1.0a Standby, suspend, safe suspend (RediSafe), and hibernation modes US EPA Energy Star compliant Personalization screen at startup <b>International Warranty Service</b> <b>IBM SystemXtra Program</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>																																	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

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 No warranties are expressed or implied in this summary  
 (380D) Compiled by Roger Dodson, IBM. December 1997

# IBM ThinkPad 380E - withdrawn

<b>IBM® ThinkPad®:</b>	<b>380E</b> 12.1" SVGA FRSTN	
Processor type	<b>Pentium® MMX 150/60 MHz</b> / 64 bit transfer to L2 cache / 64 bit transfer to memory	
Processor upgrade	None	
L2 cache	<b>256 KB</b> / write-through / direct mapped / 8 ns / synchronous pipelined burst	
Diskette drive	Internal 3.5" 1.44 MB / on right side	
External FDD port	None since diskette internal	
CD-ROM	None standard / internal 8 x CD-ROM option available (not customer install)	
Type - model (code)	<b>2635-40U</b>	<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up</b>
Preload (see side)	<b>Windows 95 OSR2</b>	
Avail / withdrawn date	September 1997 / July 1997	
Disk - size / ms	<b>2.1 GB</b> / 13 ms / PIO Mode 4	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer	
Display - size and type	<b>12.1 inch FRSTN color</b>	
Display - technology	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Dual scan</b> / Fast Response Super Twisted Nematic (FRSTN) / 150 ms / 70 nits 65,536 simultaneous colors / 35 to 1 contrast ratio	
Graphics - controller	<b>NeoMagic™ MagicGraph128ZV™</b> (NM2093) / 128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw	
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors	
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt	
Memory - std / max	<b>16 MB</b> / 80 MB / non-parity / 3.3 volt / EDO	
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw	
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator	
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator	
Pointing / palm rest	TrackPoint III™ / no drag lock keys	
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)	
Weight	6.7 pounds (3.0 kg)	
Battery - type / life	NiMH / non-intelligent / 2.0 hrs	
Charge time - on / off	3.5 to 10 hrs / 2.8 hrs	
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCISet / Intel 82371MX PIIx / NS PC87338	
Docking Station	None	
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad Enhanced Port Replicator	
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>Zoomed Video support in lower slot</b> / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)	
Video in/out	None	
MPEG decoder	None (software support for MPEG-1 in Windows 95)	
Data/fax modem	None	
Audio support	<b>16 bit audio chip</b> / 20 voice MIDI FM Synthesis / CS4236B One internal speaker / .5 watt / dial volume control / int mic / full duplex spk/mic	
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port	
Infrared ports	<b>Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps</b>	
Security	Power-on password / Hard disk password / security keyhole / personalization	
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)	
Warranty	<b>1 year</b> - ThinkPad EasyServ (depot repair service) or carry-in	
Service options	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years	
<b>The ThinkPad Enhanced Port Replicator</b> provide cable management, additional I/O ports, and CardBus PC Card slots. Features include: - Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator Port Replicator connectors: - USB - Serial (9 pin); parallel (EPP, ECP, 25 pin) - External display (15 pin) - Keyboard - Mouse - Audio in (3.5 mm) - Audio out (3.5 mm) - Joystick/MIDI port (15 pin) - not on system - External diskette drive conntr - not on system - Power connector (requires AC power; can not run on battery) Features of the PC Card slots: - Two Type III slots (side by side) - PC Card Standard 95 compliant - CardBus compliant (PCI 2.1 / 32 bit) - 8/16 bit PC Card support (no Zoomed Video) - Texas Instruments PCI1131 controller - Requires no PCI-to-PCI bridge		<b>OPTIONS</b> <b>- 8 MB SO DIMM 3.3v NP EDO 64 bit 92G7340</b> <b>- 16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341</b> <b>- 16 MB SO DIMM NP EDO 64 bit (new) 01K1124</b> <b>- 32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342</b> <b>- 64 MB SO DIMM 3.3v NP EDO 64 bit 76H0268</b> - ThinkPad 560 Port Replicator 46H4209 - ThinkPad 380/385 Port Replicator 84G1316 - ThinkPad Enhanced Port Replicator 11J8997 - ThinkPad 380/385 Li-Ion Battery (old) 73H9793 - ThinkPad 380/385 Li-Ion Battery 02K6507 - 35 watt AC Adapter (barrel, slim) 76H0139 - 56 watt AC Adapter (barrel; 3 prong) 83H6739 - 8 x CD-ROM 73H9795 - 2.1 GB Disk 13 ms 73H9797 - 3.2 GB Disk 13 ms 02K0487 - 5.1 GB Disk 12 ms 02K0506 - 33.6 Kbps Modem with XJACK 55H6759 - 56K PC Card Modem Kit 04K0052 - 56K PC Card Modem/Cellular Capable 02K4196
		<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 OSR2 (FAT16) - Online User's Guide - ThinkPad Features Program - SystemSoft CardWorks™ - Diskette Factory and Utilities 1. Artisoft CoSession™ Host 2. NetFinity for Windows 95 3. Puma TranXit™ 4. IBM Anti-Virus 5. IBM Global Network (IGN Dialer) 6. Netscape Navigator browser 7. Media Player 8. IntelliQuest Registration Mailer 9. Ergonomics 10. PointCast (with ThinkPad channel) 11. Marketing Demo 12. Voyetra Audio Station 13. Quicken SE - Lotus SmartSuite CD-ROM - Recovery CD-ROM with boot diskette - Windows 95 CD-ROM (no installation) Fn + F2 = Battery guage Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation
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		<b>FEATURES OF 380 MODELS</b> Quick Setup Guide System Status Indicators Plug and Play 1.0a Standby, suspend, safe suspend (RediSafe), and hibernation modes US EPA Energy Star compliant Personalization screen at startup <b>International Warranty Service</b> <b>IBM SystemXtra Program</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

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 No warranties are expressed or implied in this summary  
 (380E) Compiled by Roger Dodson, IBM. June 1998

# IBM ThinkPad® 380ED - withdrawn

IBM® ThinkPad®			
Processor type	<b>Pentium® MMX™ 166/66MHz<sup>1</sup></b> / 64-bit transfer to L2 cache / 64-bit transfer to memory	<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up</b>	
Processor upgrade	None		
L2 cache	<b>256KB</b> / write-through / direct mapped / 8ns / synchronous pipelined burst		
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side		
External FDD port	None since diskette internal		
CD-ROM	<b>5.25" CD-ROM / 20X-8X<sup>5</sup> speed</b> / CAV / multi-session / XA / ATAPI / not bootable / not removable / on right side		
Type - model	⚡ <b>2635-5AU</b>	⚡ <b>2635-6AU</b>	⚡ <b>2635-7AU</b>
Preload (see side)	<b>Windows 95 OSR2</b>	<b>Windows 95 OSR2</b>	<b>Windows 95 OSR2</b>
Avail / withdrawn date	September 1997 / September 1998	September 1997 / September 1998	September 1997 / September 1998
Disk - size / ms	<b>2.1GB<sup>4</sup></b> / 13ms / PIO Mode 4	<b>3.0GB</b> / 13ms / PIO Mode 4	<b>5.1GB</b> / 12ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer		
Display - size and type	<b>12.1 inch FRSTN color</b>	<b>12.1 inch TFT color</b>	
Display - technology	<b>SVGA</b> / 640x480 or 800x600 <b>Dual scan</b> / FRSTN / 150ms / 70 nits 65,536 sim colors / 35 to 1 contrast	<b>SVGA</b> / 640x480 or 800x600 <b>Active Matrix TFT</b> / 75ms / 100 nits 65,536 simultaneous colors / 100 to 1 contrast ratio	
Graphics - controller	<b>NeoMagic™ MagicGraph128ZV™</b> (NM2093) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw		
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024 x 768 with 256 colors		
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt		
Memory - std / max	<b>16MB</b> / 80MB / non-parity / 3.3 volt / EDO		
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw		
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator		
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator		
Pointing / palm rest	TrackPoint® III / no drag lock keys		
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)		
Weight <sup>2</sup>	7.0 pounds (3.2 kg)		
Battery - type / life <sup>10</sup>	Li-Ion / non-intelligent / 2.0 hrs	Li-Ion / non-intelligent / 2.5 hrs	
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs		
Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCISet / Intel 82371MX PIIX / NS PC87338		
Docking Station	None		
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>Zoomed Video support in lower slot</b> / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)		
Video in/out	None		
MPEG decoder	None (software support for MPEG-1 in Windows 95)		
Data/fax modem	None		
Audio support	<b>16-bit audio</b> / 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236B One internal speaker / .5 watt / dial volume control / int mic / full duplex spk/mic		
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port		
Infrared ports	<b>Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps</b>		
Security	Power-on password / Hard disk password / security keyhole / personalization		
Preinstalled software	Microsoft® Windows® 95 OSR2 wth applications (listed on right)		
Limited warranty <sup>11</sup>	<b>1 year</b> - ThinkPad EasyServ (door-to-door depot repair service) or carry-in		
Service options <sup>15</sup>	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years		
<b>The ThinkPad Enhanced Port Replicator</b>	<b>OPTIONS</b>		
provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:	- <b>8MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7340</b> - <b>16MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7341</b> - <b>16MB SO DIMM NP 64-bit (new)</b> <b>01K1124</b> - <b>32MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7342</b> - <b>64MB SO DIMM 3.3v NP EDO 64-bit</b> <b>76H0268</b>		
- Dual IBM lock slots to secure the ThinkPad 380, PC Cards, and Port Replicator	- ThinkPad 560 Port Replicator    46H4209 - ThinkPad 380/385 Port Replicator    84G1316 - ThinkPad Enhanced Port Replicator    11J8997 - ThinkPad 380/385 Li-Ion Battery (old)    73H9793 - ThinkPad 380/385 Li-Ion Battery    02K6507 - 35 watt AC Adapter (barrel; slim)    76H0139 - 56 watt AC Adapter (barrel; 3 prong)    83H6739 - 8X CD-ROM    73H9795 - 2.1GB Disk 13ms    73H9797 - 3.2GB Disk 13ms    02K0487 - 5.1GB Disk 12ms    02K0506 - 33.6Kbps Modem with XJACK    55H6759 - 56K PC Card Modem Kit    04K0052		
Port Replicator connectors:			
- USB			
- Serial (9 pin), parallel (EPP, ECP, 25 pin)			
- External display (15 pin)			
- Keyboard			
- Mouse			
- Audio in (3.5 mm)			
- Audio out (3.5 mm)			
- Joystick/MIDI port (15 pin) - not on system			
- External diskette drive conntr - not on system			
- Power connector (requires AC power; can not run on battery)			
Features of the PC Card slots:			
- Two Type III slots (side by side)			
- PC Card Standard 95 compliant			
- CardBus compliant (PCI 2.1 / 32-bit)			
- 8/16-bit PC Card support (no Zoomed Video)			
- Texas Instruments PCI1131 controller			
- Requires no PCI-to-PCI bridge			
	Easy-Setup is entered by holding F1 when turning on.		
	1.08GB = DMA Mode 2 or PIO Mode 4 1.35GB = DMA Mode 2 or PIO Mode 4 2.1GB = DMA Mode 2 or PIO Mode 4 3.0GB = DMA Mode 2 or PIO Mode 4 5.1GB = Ultra DMA/33 or PIO Mode 4		
	<b>FEATURES</b>		
	Quick Setup Guide System Status Indicators Plug and Play 1.0a Standby, suspend, safe suspend (RediSafe), and hibernation modes ENERGY STAR compliant Personalization screen at startup <b>International Warranty Service<sup>14</sup></b> <b>IBM SystemXtra™</b> <b>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>		

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⚡ Withdrawn from marketing

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# IBM ThinkPad® 380XD - withdrawn

IBM® ThinkPad®			
Processor type	Intel® Pentium® MMX™ 233/66 or 266/66MHz <sup>1</sup> / 64-bit to L2 cache and memory		
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module		
L2 cache	512KB / write-through / direct mapped / 8.5ns data; 15ns tag / sync pipelined burst		
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side		
External FDD port	None since diskette internal		
CD-ROM	5.25" CD-ROM / 24X-10X <sup>5</sup> speed / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side		
Type - model	2635-8AU	2635-BAU (Auth Assb Prog)	2635-9AU
Processor	233/66MHz	233/66MHz	233/66MHz
Preload (see side)	Windows 95 OSR2	None	Windows 95 OSR2
Avail / withdrawn date	March 1998 / September 1998	March 1998 / Sept 1998	March 1998 / Sept 1998
Disk - size / ms	3.2GB <sup>4</sup> / 13ms / PIO Mode 4	Blank	4.0GB / 13ms / PIO 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer		
Display - size and type	12.1 inch HPA color	12.1 inch TFT color	
Display - technology	SVGA / 640x480 or 800x600 Dual scan / HPA / 150ms / 100 nits 16 mil sim colors / 50 to 1 contrast	SVGA / 640x480 or 800x600 Active Matrix TFT / 75ms / 100 nits 16.7 million simultaneous colors / 100 to 1 contrast ratio	
Graphics - controller	NeoMagic™ MagicGraph128XD™ (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw		
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors		
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt		
Memory - std / max	32MB / 96MB / non-parity / 3.3 volt / EDO / 60ns		
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw		
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator		
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator		
Pointing / palm rest	TrackPoint® III / no drag lock keys		
Dimensions / weight <sup>2</sup>	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.1 pounds (3.2 kg)		
Battery - type / life <sup>10</sup>	Li-Ion / non-intelligent / 8AU: 3.5 hrs; 9AU: 4.5 hrs; AAU: 4.0 hrs		
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs		
Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O) Intel Triton 430TX PCiset / Intel PIIX4 (EIDE, USB, PCI to ISA bridge) Texas Instruments® TI1250A PCMCIA controller		
Docking station	None		
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / CardBus 32-bit PCI / Zoomed video PCMCIA 2.1 compatible / PC Card Standard 95		
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)		
Video in/out	None		
MPEG decoder	None (software support for MPEG-1 in Windows 95)		
Data/fax modem	None		
Audio	16-bit / CS4237B / SRS 3D audio / FM synthesis		
Speakers	Two front stereo speakers (.5 watt) / one subwoofer above keyboard (1 watt)		
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic		
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port		
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps		
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup		
Preinstalled software	Microsoft® Windows® 95 OSR2 wth applications (listed on right)		
Limited warranty <sup>11</sup>	1 year - ThinkPad EasyServ (door-to-door depot repair service) or carry-in		
Service options <sup>15</sup>	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years		
<b>The ThinkPad Enhanced Port Replicator</b> provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:	<b>OPTIONS</b>		
- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator	- 8MB SO DIMM 3.3v NP EDO 64-bit	92G7340	
Port Replicator connectors:	- 16MB SO DIMM 3.3v NP EDO 64-bit	92G7341	
- USB, serial (9 pin), parallel (25 pin)	- 16MB SO DIMM NP EDO 64-bit (new)	01K1124	
- External display (15 pin)	- 32MB SO DIMM 3.3v NP EDO 64-bit	92G7342	
- Keyboard and mouse	- 64MB SO DIMM 3.3v NP EDO 64-bit	76H0268	
- Audio in (3.5 mm) and audio out (3.5 mm)	- ThinkPad 560 Port Replicator	46H4209	
- Joystick/MIDI port (15 pin) - not on system	- ThinkPad 380/385 Port Replicator	84G1316	
- External diskette drive conntr - not on system	- ThinkPad Enhanced Port Replicator	11J8997	
- Power connector (requires AC power; can not run on battery)	- ThinkPad 380/385 Li-Ion Battery (old)	73H9793	
Features of the PC Card slots:	- ThinkPad 380/385 Li-Ion Battery	02K6507	
- Two Type III slots (side by side)	- 56 watt AC Adapter (barrel; 3 prong)	83H6739	
- PC Card Standard 95 compliant	- 4.0GB disk, 13ms	05K8871	
- CardBus compliant (PCI 2.1 / 32-bit)	- 6.4GB disk, 13ms, Ultra DMA/33	02K0518	
- 8/16-bit PC Card support (no Zoomed Video)	- 33.6Kbps Modem with XJACK	55H6759	
- Texas Instruments PCI1131 controller	- 56K PC Card Modem Kit	04K0052	
- Requires no PCI-to-PCI bridge	- 56K PC Card Modem/Cellular cpble	02K4196	
	- 10/100 Ethernet CardBus PC Card	08L3147	
	Easy-Setup is entered by holding F1 when turning on.		
	<b>WINDOWS 95 PRELOAD<sup>16</sup></b> <ul style="list-style-type: none"> <li>• Microsoft Windows 95 OSR2.1 (FAT16)</li> <li>• Internet Explorer 4.0</li> <li>• Online User's Guide</li> <li>• ThinkPad Configuration Program</li> <li>• SystemSoft CardWorks™</li> <li>• Diskette Factory and Utilities</li> <li>• Artisoft ConfigSafe</li> <li>• NetFinity for Windows 95</li> <li>• Puma TranXit™</li> <li>• IBM Anti-Virus</li> <li>• IBM Global Network (IGN Dialer)</li> <li>• Netscape Navigator browser</li> <li>• Intel LANDesk Client Manager (via web)</li> <li>• IntelliQuest Registration Mailer</li> <li>• Ergonomics</li> <li>• PointCast (with ThinkPad channel)</li> <li>• Marketing Demo</li> <li>• Tivoli Lightweight Client Framework</li> <li>• ThinkPad on the Net</li> <li>• Personalization Editor</li> <li>• ThinkPad Customization</li> <li>• Lotus SmartSuite 97</li> </ul> ◇ Recovery CD-ROM with boot diskette ◇ Windows 95 CD-ROM (no installation)		
	3.2GB = DMA Mode 2 or PIO Mode 4 4.0GB = DMA Mode 2 or PIO Mode 4 5.1GB = Ultra DMA/33 or PIO Mode 4 All disks are SMART compliant		
	<b>Fn + F2 = Battery gauge</b> <b>Fn + F3 = Standby</b> <b>Fn + F4 = Suspend</b> <b>Fn + F7 = LCD/CRT/Simultaneous</b> <b>Fn + F11 = Power mgmt</b> <b>Fn + F12 = Hibernation</b>		
	<b>FEATURES</b> <b>Wired for Management 1.1a</b> <b>DMI 2.0 compliant</b> <b>PC 97 compliant</b> Setup Guide and User's Guide System Status Indicators Plug and Play 1.0a Standby, suspend, safe suspend (RediSafe), and hibernation modes ENERGY STAR compliant <b>International Warranty Service<sup>14</sup></b> <b>IBM SystemXtra™</b> <b>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b> <b>IBM and dealer warranty/service</b>		

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

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# IBM ThinkPad® 380XD (Pentium II) - withdrawn

IBM® ThinkPad®		
Processor type	<b>Intel® Mobile Pentium® II 233/66 or 266/66MHz<sup>1</sup></b> / 64-bit to L2 cache and memory	
Processor features	No upgrade / processor, L2 cache, and memory cntr (North Bridge) on Mobile Module	
L2 cache	<b>512KB</b> / write-back / 4 way set associative / sync pipelined burst / ECC / 1/2 speed	
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side	
External FDD port	None since diskette internal	
CD-ROM	<b>5.25" CD-ROM / 24X-10X speed</b> / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side	
Type - model	<b>2635-EAU</b>	<b>2635-FAU</b>
Processor	<b>233/66MHz</b>	<b>266/66MHz</b>
Preload (see side)	<b>Windows 95</b>	
Avail / withdrawn date	May 1998 / December 1998	May 1998 / December 1998
Disk - size / ms	<b>4.0GB<sup>4</sup></b> / 13ms / PIO Mode 4	<b>5.1GB</b> / 12ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer	
Display - size and type	<b>12.1 inch HPA color</b>	<b>12.1 inch TFT color</b>
Display - technology	<b>SVGA</b> / 640 x 480 or 800 x 600 Dual scan / HPA / 150ms / 100 nits <b>16 mil</b> sim colors / 50 to 1 contrast	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Active Matrix TFT</b> / 75ms / 100 nits <b>16.7 million</b> simultaneous colors / 100 to 1 contrast ratio ratio
Graphics - controller	<b>NeoMagic™ MagicGraph128XD™</b> (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw	
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024 x 768 with 65,536 colors	
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt	
Memory - std / max	<b>32MB</b> / 96MB / non-parity / 3.3 volt / EDO / 60ns	
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB / socket accessed from bottom via screw	
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator	
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator	
Pointing / palm rest	TrackPoint® III / no drag lock keys	
Dimensions / weight <sup>2</sup>	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.2 pounds (3.3 kg)	
Battery - type / life <sup>10</sup>	Li-Ion / non-intelligent / EAU: 3.1 hrs; FAU: 4.0 hrs	
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs	
Architecture	PCI 2.1 / 32-bit / 33Mhz (EIDE, graphics, PCMCIA, USB) ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O) Intel <b>440BX</b> PCset / Intel <b>PIIX4</b> (EIDE, USB, PCI to ISA bridge) Texas Instruments® <b>TI1250A</b> PCMCIA controller	
Docking station	None	
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator	
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32-bit PCI</b> / Zoomed video PCMCIA 2.1 compatible / PC Card Standard 95	
USB / serial / parallel	<b>One USB</b> / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)	
Video in/out	None	
MPEG decoder	None (software support for MPEG-1 in Windows 95)	
Data/fax modem	None	
Audio	<b>16-bit</b> / CS4237B / SRS 3D audio / FM synthesis	
Speakers	Two front stereo speakers (.5 watt) / one subwoofer above keyboard (1 watt)	
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic	
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port	
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps	
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup	
Preinstalled software	Microsoft® Windows® 95 OSR2.1 with applications (listed on right)	
Limited warranty <sup>11</sup>	<b>1 year</b> - ThinkPad EasyServ <sup>31</sup> (door-to-door depot repair service) or carry-in	
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date	
<b>The ThinkPad Enhanced Port Replicator</b> provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:	<b>OPTIONS</b>	
- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator	- <b>8MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7340</b>	
Port Replicator connectors:	- <b>16MB SO DIMM 3.3v NP EDO 64-bit</b> <b>01K1124</b>	
- USB, serial (9 pin), parallel (25 pin)	- <b>32MB SO DIMM 3.3v NP EDO 64-bit</b> <b>92G7342</b>	
- External display (15 pin)	- <b>64MB SO DIMM 3.3v NP EDO 64-bit</b> <b>76H0268</b>	
- Keyboard and mouse	- ThinkPad 560 Port Replicator 46H4209	
- Audio in (3.5 mm) and audio out (3.5 mm)	- ThinkPad 380/385 Port Replicator 84G1316	
- Joystick/MIDI port (15 pin) - not on system	- ThinkPad Enhanced Port Replicator 11J8997	
- External diskette drive connt - not on system	- ThinkPad 380/385 Li-Ion Battery 02K6507	
- Power connector (requires AC power; can not run on battery)	- 56 watt AC Adapter (barrel; 3 prong) 83H6739	
Features of the PC Card slots:	- 4.0GB disk, 13ms 05K8871	
- Two Type III slots (side by side)	- 6.4GB disk, 13ms, Ultra DMA/33 02K0518	
- PC Card Standard 95 compliant	- V.90 PC Card Modem with XJACK <sup>24</sup> 10L7393	
- CardBus compliant (PCI 2.1 / 32-bit)	Easy-Setup is entered by holding F1 when turning on.	
- 8/16-bit PC Card support (no Zoomed Video)		
- Texas Instruments PCI1131 controller		
- Requires no PCI-to-PCI bridge		
	<b>WINDOWS 95 PRELOAD<sup>16</sup></b>	
	<ul style="list-style-type: none"> <li>- Microsoft Windows 95 OSR2.1 (FAT16)</li> <li>- Internet Explorer 4.0</li> <li>- Online User's Guide</li> <li>- ThinkPad Configuration Program</li> <li>- SystemSoft CardWorks™</li> <li>- Diskette Factory and Utilities</li> <li>- ConfigSafe</li> <li>- NetFinity for Windows 95</li> <li>- Puma TranXit™</li> <li>- IBM Anti-Virus</li> <li>- IBM Global Network (IGN Dialer)</li> <li>- Netscape Navigator browser</li> <li>- Intel LANDesk Client Manager (via web)</li> <li>- IntelliQuest Registration Mailer</li> <li>- Ergonomics</li> <li>- PointCast (with ThinkPad channel)</li> <li>- Marketing Demo</li> <li>- Tivoli Lightweight Client Framework</li> <li>- ThinkPad on the Net</li> <li>- Personalization Editor</li> <li>- ThinkPad Customization</li> <li>- Lotus® SmartSuite 97</li> </ul>	
	<ul style="list-style-type: none"> <li>◇ Recovery CD-ROM with boot diskette</li> <li>◇ Windows 95 CD-ROM (no installation)</li> </ul>	
	4.0GB = DMA Mode 2 or PIO Mode 4 5.1GB = Ultra DMA/33 or PIO Mode 4 6.4GB = Ultra DMA/33 or PIO Mode 4 All disks are SMART compliant	
	Fn + F2 = Battery guage Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation	
	<b>FEATURES</b>	
	<b>DMI 2.0 compliant</b>	
	<b>PC 97 compliant</b>	
	<b>Wired for Management 1.1a</b>	
	Setup Guide, User's Guide, Options by IBM Catalog, Introducing Windows 95 book	
	System Status Indicators	
	Plug and Play 1.0a	
	Standby, suspend, safe suspend (RediSafe), and hibernation modes	
	ENERGY STAR compliant	
	<b>International Warranty Service<sup>14</sup></b>	
	<b>IBM SystemXtra™ Program</b>	
	<b>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b>	

# IBM ThinkPad® 380Z - withdrawn

## IBM® ThinkPad®

Processor	Intel® Mobile Pentium® II 233 or 300MHz <sup>1</sup> / 66MHz system bus					<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; removable disk; keyboard does not lift up</b>
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module					
L2 cache	512KB / sync pipelined burst / ECC / half speed					
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side					
External FDD port	None since diskette internal					
CD-ROM	5.25" CD-ROM / 24X-10X <sup>5</sup> speed / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side					
Type - model	2635-HGU	2635-JGU	2635-HBU	2635-JBU	2635-JCU (AAP)	
Processor	Pentium II 233MHz	Pentium II 300MHz	Pentium II 233MHz	Pentium II 300MHz	Pentium II 300MHz	
Preload (see side)	Windows 98	Windows 98	NT 4.0	NT 4.0	None	
Disk - size / ms	4.0GB* / 13ms read / 14ms write / SMART					
Disk controller	EIDE / PCI 2.1 / supports one internal disk / disk can be removed and upgraded by customer					
Avail / withdrawn date	September 1998 / HGU withdrawn March 1999; others withdrawn June 1999					

Display - size and type	13.3 inch TFT color	All models: - C: drive is FAT16 of 2GB - D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space
Display - technology	XGA / 640x480 or 800x600 or 1024x768 / Active Matrix TFT / 75ms / 100 nits 16.7 million simultaneous colors / 100 to 1 contrast ratio ratio	

Graphics - controller	NeoMagic™ MagicMedia256AV™ (NM2200) / PCI 2.1 / 128-bit engine, 256-bit memory interface / DDC2B / Direct3D 2.5MB / SDRAM (embedded) / motion compensation / color space conversion / interpolation in X and Y axis
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Graphics - external	External SVGA to 1024x768 with 16.7 million colors at 85Hz
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt / multiple-monitor support <sup>26</sup>

Memory - std / max	32MB / 96MB or 160MB* / non-parity / 3.3 volt / EDO / 60ns
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 16, 32, or 64MB / socket accessed from bottom via screw

Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace

Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches); 300.0mm x 233.0mm x 62.0mm
Weight <sup>2</sup>	7.2 pounds (3.3 kg) with battery and disk

Battery - type / life <sup>10</sup>	Li-Ion / non-intelligent / Hxx: 3.1 hrs; Jxx: 3.3 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs

Architecture	Intel 440BX PCiset / Intel PIIX4E (EIDE, PCI to ISA bridge, USB) Texas Instruments® TI1250A PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) ISA (audio, diskette, serial, parallel, infrared)
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Docking station	None
Port replicator	ThinkPad Port Replicator with Advanced EtherJet / ThinkPad 560 Port Replor
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts)

Video in/out	None
MPEG decoder	None (software support for MPEG-1 in Windows 98)
Data/fax/modem	None
Audio	16-bit / CS4237B / SRS 3D audio / FM synthesis
Speakers	Two front stereo speakers (.5 watt) / one subwoofer above keyboard (1 watt)
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps

Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup
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Limited warranty <sup>11</sup>	1 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / service agreements up to 5 years from purchase date

<b>WINDOWS 98 PRELOAD<sup>16</sup></b>
<ul style="list-style-type: none"> <li>- Microsoft® Windows® 98</li> <li>• Online User's Guide</li> <li>• ThinkPad Configuration Program</li> <li>• ThinkPad Utilities</li> <li>• IBM Update Connector</li> <li>• RingCentral Fax</li> <li>• Ergonomics</li> <li>• IBM Registration</li> <li>• Puma IntelliSync 97 (infrared)</li> <li>• IBM Global Network Dialer</li> <li>• Netscape Navigator web browser</li> <li>• Lotus® SmartSuite 97 (CD)</li> <li>• ConfigSafe</li> <li>• Norton AntiVirus (OEM Version)</li> <li>• ThinkPad on the Net (TCC CD)</li> <li>◆ Customization Center CD-ROM</li> <li>◆ Lotus SmartSuite 97 CD-ROM</li> <li>◆ Product Recovery CD-ROM (with boot diskette)</li> </ul>

<b>WINDOWS NT PRELOAD<sup>16</sup></b>
<ul style="list-style-type: none"> <li>- Windows NT® Workstation 4.0</li> <li>- Service Pack 3</li> <li>• Online User's Guide</li> <li>• Artisoft ConfigSafe</li> <li>• ThinkPad Configuration Program</li> <li>• ThinkPad Utilities</li> <li>• Diskette Factory</li> <li>• Puma IntelliSync 97 (infrared)</li> <li>• IBM Registration</li> <li>• Ergonomics</li> <li>• SystemSoft CardWizard</li> <li>• Norton AntiVirus (TCC CD)</li> <li>◆ Product Recovery CD-ROM (with boot diskette)</li> </ul>

4.0GB = Ultra DMA/33** or PIO Mode 4
6.4GB = Ultra DMA/33** or PIO Mode 4
All disks are SMART compliant

<b>The ThinkPad Port Replicator with Advanced EtherJet Feature</b> provides cable management, additional I/O ports, CardBus PC Card slots, and 10/100 ethernet with Wake on LAN™. Features:
- 10/100 ethernet (Intel 82558, Wake on LAN)
- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator
Connectors:
- USB, serial (RS-232, 9 pin), parallel (25 pin), external display, keyboard, mouse
- Audio in and out (3.5 mm)
- Joystick/MIDI port (15 pin) - not on system
- External diskette drive connector (no support)
- Power connector
Features of the PC Card slots:
- Two Type III slots (side by side)
- PC Card Standard 95 compliant
- CardBus compliant (PCI 2.1 / 32-bit)
- PCMCIA 2.1 (no Zoomed Video)
- TI 1250A controller
- Requires no PCI-to-PCI bridge

<b>OPTIONS</b>
- 16MB SO DIMM 3.3v NP EDO 64-bit 01K1124
- 32MB SO DIMM 3.3v NP EDO 64-bit 92G7342
- 64MB SO DIMM 3.3v NP EDO 64-bit 76H0268
- ThinkPad 560 Port Replicator 46H4209
- Port Replicator w/ Advanced EtherJet 05K4872
- ThinkPad 380/385 Li-Ion Battery 02K6507
- 56 watt AC Adapter (barrel; 3 prong) 83H6739
- 4.0GB disk**, 13ms 05K8871
- 6.4GB disk**, 13ms, Ultra DMA/33 02K0518
- V.90 PC Card Modem with XJACK <sup>24</sup> 10L7393
- 56K PC Card Modem/Cellular cpble 02K4196
- 10/100 Ethernet CardBus PC Card 08L3147
- ThinkPad Proven™ solutions <sup>12</sup> (visit <a href="http://www.ibm.com/pc/us/thinkpad/proven">www.ibm.com/pc/us/thinkpad/proven</a> )
Easy-Setup is entered by holding F1 when turning on.

<b>FEATURES</b>
<b>Wired for Management 1.1a compliant</b>
<b>DMI 2.0 compliant</b>
<b>PC 97 compliant</b>
<b>ACPI ready</b> (APM enabled)
Setup Guide and User's Guide
System Status Indicators
Plug and Play 1.0a
Standby, suspend, safe suspend (RediSafe), and hibernation modes
ENERGY STAR compliant
<b>International Warranty Service<sup>14</sup></b>
<b>IBM SystemXtra<sup>®</sup>,<sup>35</sup></b>
<b>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (<a href="http://www.ibm.com/pc/us">www.ibm.com/pc/us</a>) support</b>

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\* Maximum memory capacity with 128MB SO DIMM from ThinkPad Proven vendor

\*\* Bus length limits EIDE controller (only on 380Z) to DMA Multi-Word Mode 1 (13MB/sec)

No warranties are expressed or implied in this summary (380Z) © IBM Corp. July 1999

# IBM ThinkPad 385D (Retail models) - withdrawn

<b>IBM® ThinkPad®:</b>	<b>× 385D</b> 12.1" SVGA DSTN or TFT / 8 x CD-ROM		
Processor type	<b>Pentium® 150/60 MHz or 150/60 MHz with MMX™ technology/</b> 64 bit transfer to L2 cache / 64 bit transfer to memory		
Processor upgrade	None		
L2 cache	<b>256 KB</b> / write-through / direct mapped / 8 ns / synchronous pipelined burst		
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side		
External FDD port	None since diskette internal		
CD-ROM	<b>5.25" CD-ROM / 8 x speed/</b> multi-session / XA / ATAPI / not bootable / not removable / on right side		
Type - model	<b>2635-2EU</b>	<b>2635-3EU</b>	<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up</b>
Preload (see side)	<b>Windows 95 OSR2</b>	<b>Windows 95 OSR2</b>	
Avail / withdrawn date	May 1997 / January 1998	May 1997 / January 1998	
Pentium speed	<b>150/60 MHz</b>	<b>150/60 MHz with MMX technology</b>	
Disk - size / ms	<b>1.35 GB</b> / 13 ms / PIO Mode 4	<b>2.1 GB</b> / 13 ms / PIO Mode 4	
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / not removeable / upgrade only by IBM or dealer		
Display - size and type	<b>12.1 inch DSTN color</b>	<b>12.1 inch TFT color</b>	
Display - technology	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Dual scan</b> 65,536 sim colors / 30 to 1 contrast	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Black Matrix TFT</b> - active matrix 65,536 simultaneous colors / 100 to 1 contrast ratio ratio	
Graphics - controller	<b>NeoMagic™ MagicGraph128ZV™</b> (NM2093) / 128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw		
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors		
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt		
Memory - std / max	<b>16 MB</b> / 80 MB / non-parity / 3.3 volt / EDO		
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw		
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator		
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator		
Pointing / palm rest	TrackPoint III™ / no drag lock keys		
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)		
Weight	7.1 pounds (3.2 kg)	6.9 pounds (3.1 kg)	
Battery - type / life	NiMH / non-intelligent / 2.0 hrs		
Charge time - on / off	3.5 to 9 hrs / 2.5 to 3.5 hrs		
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCiset / Intel 82371MX PIIX / NS PC87338		
Docking Station	None		
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator ③ ThinkPad 380/385 Port Replicator		
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>Zoomed Video support in lower slot</b> / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 watts) / Selectable boot		
Video in/out	None		
MPEG decoder	None		
Data/fax modem	None		
Audio support	<b>16 bit audio chip</b> / 20 voice MIDI FM Synthesis / Crystal Semiconductor™ CS4236 One internal speaker / .5 watt / dial volume control / internal mic / full duplex Input/microphone jack (stereo) / output jack (stereo) / no joystick port		
Audio in/out jacks	<b>Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps</b>		
Infrared ports			
Security	Power-on password / Hard disk password / security keyhole		
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)		
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		
<b>The ThinkPad Enhanced Port Replicator</b>	Options for ThinkPad 385D:		
provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:	- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>92G7340</b>		
- Dual IBM lock slots to secure the ThinkPad 385D, PC Cards, and Port Replicator	- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>92G7341</b>		
Port Replicator connectors:	- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>92G7342</b>		
- USB	- <b>64 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>76H0268</b>		
- Serial (9 pin); parallel (EPP, ECP, 25 pin)	- ThinkPad 560 Port Replicator 46H4209		
- External display (15 pin)	- ThinkPad 380/385 Port Replicator 84G1316		
- Keyboard	- ThinkPad Enhanced Port Replicator 11J8997		
- Mouse	- Li-Ion Battery Pack 73H9793		
- Audio in (3.5 mm)	- 35 watt AC Adapter (slim, barrel) 76H0139		
- Audio out (3.5 mm)	- 8 x CD-ROM 73H9795		
- Joystick/MIDI port (15 pin) - not on system	- 2.1 GB HDD 13 ms 73H9797		
- External diskette drive connt - not on system	- 3.2 GB Disk 13 ms 02K0487		
- Power connector (requires AC power; can not run on battery)	- 5.1 GB Disk 12 ms 02K0506		
Features of the PC Card slots:	- 33.6 Kbps Modem with XJACK 55H6759		
- Two Type III slots (side by side)	- 56K PC Card Modem Kit 04K0052		
- PC Card Standard 95 compliant	Easy-Setup is entered by holding F1 when turning on.		
- CardBus compliant (PCI 2.1 / 32 bit)	Fn + F2 = Battery guage		
- 8/16 bit PC Card support (no Zoomed Video)	Fn + F3 = Standby		
- Texas Instruments PCI1131 controller	Fn + F4 = Suspend		
- Requires no PCI-to-PCI bridge	Fn + F7 = LCD/CRT/Simultaneous		
	Fn + F11 = Power mgmt		
	Fn + F12 = Hibernation		
	<p><b>WINDOWS 95 PRELOAD</b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 95 OSR2 (FAT16)</li> <li>- Lotus SmartSuite</li> <li>- WordPro Word Processor</li> <li>- 1-2-3 Spreadsheet</li> <li>- Freelance Graphics</li> <li>- Approach Database</li> <li>- Organizer Scheduler</li> <li>- IBM Global Network (IGN)</li> <li>- NetScape Navigator Browser</li> <li>- AOL, AT&amp;T WorldNet, CompuServe</li> <li>- Media Player</li> <li>- Active Movie (MPEG-1, AVI)</li> <li>- Video for Windows</li> <li>- CD Audio Player</li> <li>- MIDI Sequencer</li> <li>- Quicken SE</li> <li>- Expensable</li> <li>- Wall Street Money SE</li> <li>- National Golf Course Directory</li> <li>- Rand McNally's Trip Maker</li> <li>- IBM Anti-Virus</li> <li>- IBM Online Housecall</li> <li>- IBM Update Connector</li> <li>- IntelliLink Connect</li> <li>- TranXit</li> <li>- Online User's Guide</li> <li>- SystemSoft Card Works</li> <li>- Password Protected Marketing Demo</li> <li>- CD-ROMs included in the Shipping Carton <ul style="list-style-type: none"> <li>- Preload Recovery CD w/boot diskette</li> <li>- Windows 95 CD (no installation)</li> <li>- Picture Perfect Golf</li> </ul> </li> </ul> <p><b>FEATURES OF 385D MODELS</b></p> <ul style="list-style-type: none"> <li>Quick Setup Guide</li> <li>System Status Indicators</li> <li>Plug and Play 1.0a</li> <li>Standby, suspend, safe suspend (RediSafe), and hibernation modes</li> <li>US EPA Energy Star compliant</li> <li>Personalization screen at startup</li> <li><b>International Warranty Service</b></li> <li><b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (<a href="http://www.pc.ibm.com">http://www.pc.ibm.com</a>) support</b></li> <li><b>IBM and dealer warranty/service</b></li> <li><b>Online Housecall (remote diagnostics)</b></li> </ul>		

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

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No warranties are expressed or implied in this summary (385D) Compiled by Roger Dodson, IBM. December 1997

# IBM ThinkPad 385ED (Retail models) - withdrawn

<b>IBM® ThinkPad®:</b>	<b>385ED</b> 12.1" SVGA Fast Response STN or Active Matrix / 20x max variable speed CD-ROM	
Processor type	<b>Pentium® MMX™ 166/66 Mhz</b> / 64 bit transfer to L2 cache / 64 bit transfer to memory	<b>All-in-one integration means the disk, diskette drive, and CD-ROM are all within the covers of the notebook; keyboard does not lift up</b>
Processor upgrade	None	
L2 cache	<b>256 KB</b> / write-through / direct mapped / 8 ns / synchronous pipelined burst	
Diskette drive	Internal 3.5" 1.44 MB / use simultaneously with CD-ROM / on right side	
External FDD port	None since diskette internal	
CD-ROM	<b>5.25" CD-ROM / 20x max variable speed</b> / CAV / multi-session / XA / ATAPI / not bootable / not removable / on right side	
Type - model (code)	<b>2635-5EU</b>	<b>2635-6EU</b>
UPC code	<b>087944350163</b>	<b>087944343660</b>
Preload (see side)	<b>Windows 95 OSR2</b>	<b>Windows 95 OSR2</b>
Avail / withdrawn date	September 1997 / July 1997	September 1997 / July 1997
Disk - size / ms	<b>2.1 GB</b> / 13 ms / PIO Mode 4	<b>3.0 GB</b> / 13 ms / PIO Mode 4
Disk controller	EIDE / PCI 2.1 / supports one internal disk	no DMA or busmaster support / not removeable / upgrade only by IBM or dealer
Display - size and type	<b>12.1 inch Fast Response color</b>	<b>12.1 inch Active color</b>
Display - technology	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Dual scan</b> / FRSTN / 150 ms / 70 nits 65,536 sim colors / 35 to 1 contrast	<b>SVGA</b> / 640 x 480 or 800 x 600 <b>Active Matrix TFT</b> / 75 ms / 100 nits 65,536 simultaneous colors / 100 to 1 contrast ratio
Graphics - controller	<b>NeoMagic™ MagicGraph128ZV™</b> (NM2093) / 128 bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 1.125 MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw	
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 with 256 colors	
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt	
Memory - std / max	<b>16 MB</b> / 80 MB / non-parity / 3.3 volt / EDO	
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64 MB / socket accessed from bottom via screw	
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator	
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator	
Pointing / palm rest	TrackPoint III™ / no drag lock keys	
Dimensions	11.8 x 9.2 x 2.4" (260 cubic inches)	
Weight	7.1 pounds (3.2 kg)	
Battery - type / life	Li-Ion / non-intelligent / 2.0 hrs	Li-Ion / non-intelligent / 2.5 hrs
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs	
Architecture	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA, Port Replicator) ISA (audio, diskette, serial, parallel, infrared) Intel® Mobile Triton 82430 PCset / Intel 82371MX PIIX / NS PC87338	
Docking Station	None	
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator	
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>Zoomed Video support in lower slot</b> / PCMCIA 2.1 compatible / PC Card Standard 95 / Cirrus Logic CL-PD6729 (PCI)	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Universal AC adapter; barrel (35 or 56 watts)	
Video in/out	None	
MPEG decoder	None (software support for MPEG-1 in Windows 95)	
Data/fax modem	None	
Audio support	<b>16 bit audio chip</b> / 20 voice MIDI FM Synthesis / CS4236B One internal speaker / .5 watt / dial volume control / int mic/ full duplex spk/mic	
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port	
Infrared ports	<b>Infrared port on left side / IrDA 1.1 compatible / up to 4 Mbps</b>	
Security	Power-on password / Hard disk password / security keyhole / personalization	
Preinstalled software	Microsoft Windows 95 OSR2 wth applications (listed on right)	
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional depot repair service) or carry-in	
<b>The ThinkPad Enhanced Port Replicator</b> provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:		
- Dual IBM lock slots to secure the ThinkPad 385, PC Cards, and Port Replicator		
Port Replicator connectors:		
- USB		
- Serial (9 pin), parallel (EPP, ECP, 25 pin)		
- External display (15 pin)		
- Keyboard		
- Mouse		
- Audio in (3.5 mm)		
- Audio out (3.5 mm)		
- Joystick/MIDI port (15 pin) - not on system		
- External diskette drive conntr - not on system		
- Power connector (requires AC power; can not run on battery)		
Features of the PC Card slots:		
- Two Type III slots (side by side)		
- PC Card Standard 95 compliant		
- CardBus compliant (PCI 2.1 / 32 bit)		
- 8/16 bit PC Card support (no Zoomed Video)		
- Texas Instruments PCI1131 controller		
- Requires no PCI-to-PCI bridge		
<b>OPTIONS</b>		
- <b>8 MB SO DIMM 3.3v NP EDO 64 bit 92G7340</b>		
- <b>16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341</b>		
- <b>16 MB SO DIMM NP EDO 64 bit (new) 01K1124</b>		
- <b>32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342</b>		
- <b>64 MB SO DIMM 3.3v NP EDO 64 bit 76H0268</b>		
- ThinkPad 560 Port Replicator 46H4209		
- ThinkPad 380/385 Port Replicator 84G1316		
- ThinkPad Enhanced Port Replicator 11J8997		
- ThinkPad 380/385 Li-Ion Battery (old) 73H9793		
- ThinkPad 380/385 Li-Ion Battery 02K6507		
- 35 watt AC Adapter (barrel, slim) 76H0139		
- 56 watt AC Adapter (barrel; 3 prong) 83H6739		
- 2.1 GB Disk 13 ms 73H9797		
- 3.2 GB Disk 13 ms 02K0487		
- 5.1 GB Disk 12 ms 02K0506		
- 33.6 Kbps Modem with XJACK 55H6759		
- 56K PC Card Modem Kit 04K0052		
Fn + F2 = Battery guage		
Fn + F3 = Standby		
Fn + F4 = Suspend		
Fn + F7 = LCD/CRT/Simultaneous		
Fn + F11 = Power mgmt		
Fn + F12 = Hibernation		
<b>WINDOWS 95 PRELOAD</b>		
- Microsoft Windows 95 OSR2 (FAT16)		
- Lotus SmartSuite 97		
- WordPro Word Processor		
- 1-2-3 Spreadsheet		
- Freelance Graphics		
- Approach Database		
- Organizer Scheduler		
- ScreenCam		
- Ergonomics		
- Diskette factory and utilities		
- ThinkPad customization icon		
- IntelliQuest Registration Mailer		
- Voyetra Audio Station		
- IBM Global Network (IGN)		
- NetScape Navigator Browser		
- AOL, AT&T WorldNet, CompuServe		
- Media Player		
- Active Movie (MPEG-1, AVI)		
- Video for Windows		
- CD Audio Player		
- MIDI Sequencer		
- Quicken SE		
- Expensable		
- Wall Street Money SE		
- National Golf Course Directory		
- Rand McNally's Trip Maker		
- IBM Anti-Virus		
- IBM Online Housecall		
- IBM Update Connector		
- TranXit™		
- Online User's Guide		
- SystemSoft Card Works		
- PointCast		
- Password Protected Marketing Demo		
- CD-ROMs included in the shipping carton		
- Preload Recovery CD w/boot diskette		
- Windows 95 CD (no installation)		
- Picture Perfect Golf		
<b>FEATURES OF 385 MODELS</b>		
Quick Setup Guide		
System Status Indicators		
Plug and Play 1.0a		
Standby, suspend, safe suspend (RediSafe), and hibernation modes		
US EPA Energy Star compliant		
Personalization screen at startup		
<b>International Warranty Service</b>		
<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b>		
<b>IBM and dealer warranty/service</b>		
<b>Online Housecall (remote diagnostics)</b>		

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround)

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No warranties are expressed or implied in this summary  
(385ED) Compiled by Roger Dodson, IBM. June 1998



# IBM ThinkPad® 385XD (Retail models) - withdrawn

IBM® ThinkPad®																																					
Processor type	<b>Pentium® 233/66<sup>1</sup> with MMX™ technology, 266/66MHz with MMX™ technology, or Pentium II 266/66MHz</b>																																				
Processor features	No upgrade / processor, L2 cache, and memory controller (North Bridge) on Mobile Module																																				
L2 cache	<b>512KB</b> / sync pipelined burst (66MHz for Pentium / ECC and 133MHz for Pentium II)																																				
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side																																				
External FDD port	None since diskette internal																																				
CD-ROM	<b>5.25" CD-ROM / 24X-10X<sup>5</sup> speed / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side</b>																																				
Type - model	<b>2635-8EU</b>																																				
UPC code	<b>0-87944-40513-9</b>																																				
Processor	<b>Pentium 233/66MHz</b>																																				
Avail / withdrawn date	March 1998 / Sept 1998																																				
Disk - size / ms	<b>2.1GB<sup>4</sup> / 13ms / PIO Mode 4</b>																																				
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer																																				
Display - size and type	<b>12.1 inch HPA (High Performance Addressing) color</b>																																				
Display - technology	<b>SVGA / 640x480 or 800x600 / 150ms / 100 nits / 16.7 million simultaneous colors / 50 to 1 contrast</b>																																				
Graphics - controller	<b>NeoMagic™ MagicGraph128XD™ (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw</b>																																				
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors																																				
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt																																				
Memory - std / max	<b>32MB / 96MB / non-parity / 3.3 volt / EDO / 60ns</b>																																				
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, 32, or 64MB																																				
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator																																				
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator																																				
Pointing / palm rest	TrackPoint III™ / no drag lock keys																																				
Dimensions / weight <sup>2</sup>	11.8 x 9.2 x 2.4" (260 cubic inches) / 8EU/9EU: 7.1 pounds; DEU: 7.2 lbs																																				
Battery - type / life <sup>10</sup>	Li-Ion / non-intelligent / 3.0 hrs																																				
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs																																				
Architecture	Intel® Triton <b>430TX, PIIX4</b> for Pentium systems / <b>Intel 440BX, PIIX4</b> for Pent II <b>PIIX4</b> (EIDE, USB, PCI to ISA bridge) TI® <b>T11250A</b> PCMCIA controller PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O) None																																				
Docking station	None																																				
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator																																				
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32-bit PCI</b> / Zoomed video PCMCIA 2.1 compatible / PC Card Standard 95																																				
USB / serial / parallel	<b>One USB</b> / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)																																				
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts) / 35 watt supported																																				
Video in/out	None																																				
MPEG decoder	None (software support for MPEG-1 in Windows 95)																																				
Data/fax modem	<b>56KB PC Card Modem / Cellular Capable</b> / x2 / XJACK connector (02K4196)																																				
Audio	<b>16-bit / CS4237B / SRS 3D audio / FM synthesis</b>																																				
Speakers	Two front <b>stereo speakers</b> (.5 watt) / one <b>subwoofer</b> above keyboard (1 watt)																																				
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic																																				
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port																																				
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps																																				
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup																																				
Preinstalled software	Microsoft® 95 OSR2.1 with applications (listed on right)																																				
Limited warranty <sup>11</sup>	<b>1 year</b> - ThinkPad EasyServ (door-to-door depot repair service) or carry-in																																				
Service options <sup>15</sup>	On-site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years																																				
<table border="1"> <thead> <tr> <th>The ThinkPad Enhanced Port Replicator</th> <th>OPTIONS</th> </tr> </thead> <tbody> <tr> <td>provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:</td> <td>- 8MB SO DIMM 3.3v NP EDO 64-bit 92G7340</td> </tr> <tr> <td>- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator</td> <td>- 16MB SO DIMM 3.3v NP EDO 64-bit 92G7341</td> </tr> <tr> <td>Port Replicator connectors:</td> <td>- 16MB SO DIMM NP EDO 64-bit (new) 01K1124</td> </tr> <tr> <td>- USB, serial (9 pin), parallel (25 pin)</td> <td>- 32MB SO DIMM 3.3v NP EDO 64-bit 92G7342</td> </tr> <tr> <td>- External display (15 pin)</td> <td>- 64MB SO DIMM 3.3v NP EDO 64-bit 76H0268</td> </tr> <tr> <td>- Keyboard and mouse</td> <td>- ThinkPad 560 Port Replicator 46H4209</td> </tr> <tr> <td>- Audio in (3.5 mm) and audio out (3.5 mm)</td> <td>- ThinkPad 380/385 Port Replicator 84G1316</td> </tr> <tr> <td>- Joystick/MIDI port (15 pin) - not on system</td> <td>- ThinkPad Enhanced Port Replicator 11J8997</td> </tr> <tr> <td>- External diskette drive conntnr - not on system</td> <td>- ThinkPad 380/385 Li-Ion Battery (old) 73H9793</td> </tr> <tr> <td>- Power connector (requires AC power; can not run on battery)</td> <td>- ThinkPad 380/385 Li-Ion Battery 02K6507</td> </tr> <tr> <td>Features of the PC Card slots:</td> <td>- 56 watt AC Adapter (barrel; 3 prong) 83H6739</td> </tr> <tr> <td>- Two Type III slots (side by side)</td> <td>- 6.4GB disk, 13ms, Ultra DMA/33 02K0518</td> </tr> <tr> <td>- PC Card Standard 95 compliant</td> <td>- 33.6Kbps Modem with XJACK 55H6759</td> </tr> <tr> <td>- CardBus compliant (PCI 2.1 / 32-bit)</td> <td>- 56K PC Card Modem Kit 04K0052</td> </tr> <tr> <td>- 8/16-bit PC Card support (no Zoomed Video)</td> <td>- 56K PC Card Modem/Cellular Capable 02K4196</td> </tr> <tr> <td>- Texas Instruments PCI1131 controller</td> <td></td> </tr> <tr> <td>- Requires no PCI-to-PCI bridge</td> <td></td> </tr> </tbody> </table>		The ThinkPad Enhanced Port Replicator	OPTIONS	provide cable management, additional I/O ports, and CardBus PC Card slots. Features include:	- 8MB SO DIMM 3.3v NP EDO 64-bit 92G7340	- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator	- 16MB SO DIMM 3.3v NP EDO 64-bit 92G7341	Port Replicator connectors:	- 16MB SO DIMM NP EDO 64-bit (new) 01K1124	- USB, serial (9 pin), parallel (25 pin)	- 32MB SO DIMM 3.3v NP EDO 64-bit 92G7342	- External display (15 pin)	- 64MB SO DIMM 3.3v NP EDO 64-bit 76H0268	- Keyboard and mouse	- ThinkPad 560 Port Replicator 46H4209	- Audio in (3.5 mm) and audio out (3.5 mm)	- ThinkPad 380/385 Port Replicator 84G1316	- Joystick/MIDI port (15 pin) - not on system	- ThinkPad Enhanced Port Replicator 11J8997	- External diskette drive conntnr - not on system	- ThinkPad 380/385 Li-Ion Battery (old) 73H9793	- Power connector (requires AC power; can not run on battery)	- ThinkPad 380/385 Li-Ion Battery 02K6507	Features of the PC Card slots:	- 56 watt AC Adapter (barrel; 3 prong) 83H6739	- Two Type III slots (side by side)	- 6.4GB disk, 13ms, Ultra DMA/33 02K0518	- PC Card Standard 95 compliant	- 33.6Kbps Modem with XJACK 55H6759	- CardBus compliant (PCI 2.1 / 32-bit)	- 56K PC Card Modem Kit 04K0052	- 8/16-bit PC Card support (no Zoomed Video)	- 56K PC Card Modem/Cellular Capable 02K4196	- Texas Instruments PCI1131 controller		- Requires no PCI-to-PCI bridge	
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# IBM ThinkPad® 385XD (Windows 98) - withdrawn

<b>IBM® ThinkPad®</b>					
Processor type	<b>Pentium® 233/66MHz<sup>1</sup></b> with MMX technology				
Processor features	No processor upgrade / processor, L2 cache, and memory controller (North Bridge) on Mobile Module				
L2 cache	<b>512KB</b> / synchronous pipelined burst (66MHz)				
Diskette drive	Internal 3.5" 1.44MB / use simultaneously with CD-ROM / on right side				
External FDD port	None since diskette internal				
CD-ROM	<b>5.25" CD-ROM / 24X-10X<sup>5</sup> speed</b> / CAV / multi-session / XA / ATAPI / bootable / not removable / on right side				
Type - model	<b>2635-LEU</b>				
UPC code	<b>0-87944-452188</b>				
Avail / withdrawn date	July 1998 / September 1998				
Disk - size / ms	<b>3.2GB<sup>2</sup></b> / 13ms (read); 14ms (write) / PIO 4 / SMART				
Disk - partitioning	Partitioned as C: (2GB - FAT16) and D: (remainder - FAT32)				
Disk controller	EIDE / PCI 2.1 / supports one internal disk / no DMA or busmaster support / disk can be removed and upgraded by customer				
Display - size and type	<b>12.1 inch TFT color</b> / Active Matrix				
Display - technology	<b>SVGA</b> / 640x480 or 800x600 / 75ms / 100 nits <b>16.7 million</b> simultaneous colors				
Graphics - controller	<b>NeoMagic™ MagicGraph128XD™</b> (NM2160B) / 128-bit SVGA accelerator / Zoomed Video support / DDC1 and DDC2B 2MB / iDRAM™ (embedded) / color space conversion and interpolation in X and Y axis / support for DCI, DirectDraw				
Graph - arch/data path	PCI 2.1 / 32-bit / external SVGA to 1024x768 with 65,536 colors at 75Hz				
Graphics - features	Simultaneous LCD and CRT / 150 degree tilt				
Memory - std / max	<b>32MB</b> / 96MB / non-parity / 3.3 volt / EDO / 60ns				
Memory - features	1 socket for one JEDEC 144 pin EDO SO DIMM of 16, 32, or 64MB				
Keyboard / # of keys	Full size alp/num / 85 (6 Fn key functions) / keyboard slope with Port Replicator				
External keyboard	External keyboard support with option cable 06G8619 or Port Replicator				
Pointing / palm rest	TrackPoint® III / no drag lock keys				
Dimensions / weight <sup>2</sup>	11.8 x 9.2 x 2.4" (260 cubic inches) / 7.1 pounds (3.2kg) with battery/disk				
Battery - type / life <sup>10</sup>	Li-Ion / non-intelligent / 3.5 hrs				
Charge time - on / off	4.2 to 12 hrs / 3.3 hrs				
Architecture	Intel® <b>Triton 430TX</b> <b>PIIX4</b> (EIDE, USB, PCI to ISA bridge) / TI® <b>T11250A</b> PCMCIA controller PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O) None				
Docking station	None				
Port replicator	① ThinkPad Enhanced Port Replicator, ② ThinkPad 560 Port Replicator, ③ ThinkPad 380/385 Port Replicator				
PCMCIA™ slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32-bit PCI</b> / Zoomed Video PCMCIA 2.1 compatible / PC Card Standard 95				
USB / serial / parallel	<b>One USB</b> / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / Universal AC adapter; barrel (56 watts) / 35 watt supported				
Video in/out	None				
MPEG decoder	None (software support for MPEG-1 in Windows 98)				
Data/fax modem	<b>56KB<sup>9</sup> PC Card Modem / Cellular Capable</b> / x2 / XJACK connector (02K4196)				
Audio	<b>16-bit</b> / CS4237B / SRS 3D audio / FM synthesis				
Speakers	Two front <b>stereo speakers</b> (.5 watt) / one <b>subwoofer</b> above keyboard (1 watt)				
Audio features	Dial volume control (left side) / internal microphone / full duplex spk/mic				
Audio in/out jacks	Input/microphone jack (stereo) / output jack (stereo) / no joystick port				
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps				
Security	Power-on password / supervisor password / hard disk password / security keyhole / personalization screen at startup				
Preinstalled software	Microsoft® Windows® 98 with applications (listed on right)				
Limited warranty <sup>11</sup>	<b>1 year</b> - ThinkPad EasyServ (door-to-door depot repair service) or carry-in				
Service options <sup>15</sup>	On-site, M-F, 8-5, next bus day (72 cities) / warranty extension to 3 or 5 years				
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# IBM ThinkPad® 390 - withdrawn

<b>IBM® ThinkPad®</b>																																				
Processor Processor features L2 cache Diskette drive External FDD port CD-ROM DVD-ROM	<b>Intel® Pentium® 233MHz<sup>1</sup> with MMX™ technology or Mobile Pentium II 233 or 266MHz</b> / 66MHz system bus No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module <b>512KB</b> / sync pipelined burst (66MHz for Pentium / ECC and 150MHz for Pentium II) Internal 3.5" 1.44MB / removable from UltraBay FX / on right side / integrated with CD-ROM None since diskette internal <b>CD-ROM / 24X-10X<sup>5</sup> speed</b> / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive <i>Option:</i> Removable UltraBay FX option / 2X <sup>5</sup> integrated with diskette drive / not supported in Pentium systems (2xx)																																			
Type - model Processor Disk - size / ms Disk controller Avail / withdrawn date	<table border="1"> <tr> <td><b>2626-20U</b> <b>Pentium 233MHz</b></td> <td><b>2626-50U</b> <b>Pentium II 233MHz</b></td> <td><b>2626-70U</b> <b>Pentium II 266MHz</b></td> </tr> <tr> <td><b>3.2GB<sup>4</sup></b> / 13ms read / 14ms write / S.M.A.R.T.<sup>29</sup></td> <td></td> <td><b>4.3GB<sup>4</sup></b> / 13ms read / 14ms write / S.M.A.R.T.<sup>29</sup></td> </tr> <tr> <td colspan="3">EIDE / PCI 2.1 / supports one internal disk / disk can be removed to upgrade by customer / supports two internal disks</td> </tr> <tr> <td colspan="3">November 1998 / March 1999</td> </tr> </table>	<b>2626-20U</b> <b>Pentium 233MHz</b>	<b>2626-50U</b> <b>Pentium II 233MHz</b>	<b>2626-70U</b> <b>Pentium II 266MHz</b>	<b>3.2GB<sup>4</sup></b> / 13ms read / 14ms write / S.M.A.R.T. <sup>29</sup>		<b>4.3GB<sup>4</sup></b> / 13ms read / 14ms write / S.M.A.R.T. <sup>29</sup>	EIDE / PCI 2.1 / supports one internal disk / disk can be removed to upgrade by customer / supports two internal disks			November 1998 / March 1999																									
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Graphics - controller Graphics - external Graphics - features	<b>NeoMagic™ MagicMedia256AV™ (NM2200)</b> / PCI 2.1 / 128-bit engine, 256-bit memory interface / DDC2B / Direct3D SDRAM / SDRAM (embedded) / <b>motion compensation</b> / color space conversion / interpolation in X and Y axis External SVGA to 1024x768 with 16.7 million colors at 85Hz Simultaneous LCD and CRT / 150 degree tilt / multiple-monitor support <sup>26</sup>																																			
Memory - std / max Memory - features	<table border="1"> <tr> <td><b>32MB</b> / 256MB<sup>33</sup> SDRAM / non-parity / 66MHz / 3.3 volt / 64-bit 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory sockets accessed from bottom via removing cover held by phillips-head screw</td> <td><b>64MB</b> / 256MB<sup>33</sup></td> </tr> </table>	<b>32MB</b> / 256MB <sup>33</sup> SDRAM / non-parity / 66MHz / 3.3 volt / 64-bit 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory sockets accessed from bottom via removing cover held by phillips-head screw	<b>64MB</b> / 256MB <sup>33</sup>																																	
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Keyboard Pointing	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps																																			
Dimensions Weight <sup>2</sup> Case material	<table border="1"> <tr> <td>12.4 x 10.1 x 1.8" (225 cubic inches) 7.5 lbs (3.4 kg) with battery and disk PC/ABS plastic</td> <td>12.4 x 10.2 x 1.8" (227 cubic inches) 7.7 lbs (3.5 kg) with battery and disk PC/ABS plastic</td> <td>All models: - C: drive is FAT16 of 2GB - D: drive is FAT32 of remaining space</td> </tr> </table>	12.4 x 10.1 x 1.8" (225 cubic inches) 7.5 lbs (3.4 kg) with battery and disk PC/ABS plastic	12.4 x 10.2 x 1.8" (227 cubic inches) 7.7 lbs (3.5 kg) with battery and disk PC/ABS plastic	All models: - C: drive is FAT16 of 2GB - D: drive is FAT32 of remaining space																																
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Architecture Docking station Port replicator PC Card Std slots USB / serial / parallel Other features	<b>Intel Triton 430TX</b> for Pentium system / <b>Intel 440BX</b> PCiset for Pentium II <b>Intel PIIX4E</b> (EIDE, PCI to ISA bridge, USB) Texas Instruments® <b>TI1250A</b> PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio) ISA (audio, diskette, serial, parallel, infrared, modem) None ThinkPad Port Replicator with Advanced EtherJet™ / ThinkPad 560 Port Replicator 2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video <b>One USB</b> / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) APM-aware BIOS / Universal AC adapter; barrel (56 watts)																																			
Video in/out MPEG decoder Data/fax/modem Audio Speakers Audio features Audio in/out jacks Infrared ports	None None (software support for MPEG-1 in Windows 98) <b>56Kbps<sup>24</sup></b> / V.90 / integrated in system / Lucent 1644 / not voice-capable 16-bit SoundBlaster Pro™ compatible / NeoMagic NMA2 / ISA / full duplex Two Altec Lansing® stereo speakers on display (1 watt) Dial volume control (right side) / internal microphone Microphone jack (stereo) / headphone jack (stereo) / line-in jack Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps																																			
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX																																			
Limited warranty <sup>11</sup> Service options <sup>15</sup>	<b>1 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service) On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date																																			
<table border="1"> <thead> <tr> <th rowspan="2">Resolution</th> <th colspan="2">LCD</th> <th colspan="3">External Monitor</th> </tr> <tr> <th>TFT</th> <th>60Hz</th> <th>75Hz</th> <th>85Hz</th> <th></th> </tr> </thead> <tbody> <tr> <td>640x480</td> <td>16M</td> <td>16M</td> <td>16M</td> <td>16M</td> <td>16M</td> </tr> <tr> <td>800x600</td> <td>16M</td> <td>16M</td> <td>16M</td> <td>16M</td> <td>16M</td> </tr> <tr> <td>1024x768</td> <td>16M</td> <td>16M</td> <td>16M</td> <td>16M</td> <td>16M</td> </tr> <tr> <td>1280x1024</td> <td>--</td> <td>256</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>	Resolution	LCD		External Monitor			TFT	60Hz	75Hz	85Hz		640x480	16M	16M	16M	16M	16M	800x600	16M	16M	16M	16M	16M	1024x768	16M	16M	16M	16M	16M	1280x1024	--	256	--	--	--	<b>OPTIONS</b> - 32MB SO DIMM 3.3v NP SDRAM 76H0294 - 64MB SO DIMM 3.3v NP SDRAM 20L0241 - 128MB SO DIMM 3.3v NP SDRAM 01K1150 - ThinkPad 560 Port Replicator 46H4209 - Port Replicator w/ Advanced EtherJet 05K4872 - ThinkPad 390/i Series Li-Ion Battery 02K6513 - 56 watt AC Adapter (barrel; 3 prong) 83H6739 - 6.4GB disk with UltraBay FX adapter 05K8923 - 10GB disk with UltraBay FX adapter 05K8983 - 900MHz Cordless Computer Conn 04K0064 - V.90 PC Card Modem with XJACK <sup>24</sup> 10L7393 - 10/100 Ethernet CardBus PC Card 08L3147 - Smart Card Security Kit 10L7333 - DVD/Diskette (for UltraBay FX) 05K8921  - Visit <a href="http://www.ibm.com/pc/us/accessories">www.ibm.com/pc/us/accessories</a> (U.S.) or <a href="http://www.ibm.com/pc/ca/accessories">www.ibm.com/pc/ca/accessories</a> (CA)  - ThinkPad Proven™ solutions <sup>12</sup> (visit <a href="http://www.ibm.com/pc/us/thinkpad/proven">www.ibm.com/pc/us/thinkpad/proven</a> )  Pressing F1 during startup brings up IBM BIOS Setup Utility
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<b>The ThinkPad Port Replicator with Advanced EtherJet Feature</b> provides cable management, additional I/O ports, CardBus PC Card slots, and 10/100 ethernet with Wake on LAN™ <sup>28</sup> . Features: <ul style="list-style-type: none"> <li>10/100 ethernet (Intel 82558, Wake on LAN)</li> <li>Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator</li> <li>USB, serial (RS-232, 9 pin), parallel (25 pin), external display, keyboard, mouse</li> <li>Audio in and out (3.5 mm)</li> <li>Joystick/MIDI port (15 pin) - not on system</li> <li>Power connector</li> <li>Two Type III PC Card slots (side by side)             <ul style="list-style-type: none"> <li>PC Card Standard 95 compliant</li> <li>CardBus compliant (PCI 2.1 / 32-bit)</li> <li>PCMCIA 2.1 (no Zoomed Video)</li> </ul> </li> </ul>	<b>WINDOWS 98 PRELOAD<sup>16</sup></b> <ul style="list-style-type: none"> <li>Microsoft® Windows® 98</li> <li>Online User's Guide</li> <li>ThinkPad Configuration Program</li> <li>ThinkPad Utilities</li> <li>IBM Update Connector</li> <li>RingCentral Fax</li> <li>Ergonomics</li> <li>IBM Registration</li> <li>Puma IntelliSync 97 (infrared)</li> <li>IBM Global Network Dialer</li> <li>Netscape Navigator web browser</li> <li>Lotus® SmartSuite Millennium<sup>20</sup></li> <li>PC Doctor</li> <li>ConfigSafe</li> <li>Norton AntiVirus (OEM Version)</li> <li>ThinkPad on the Net (TCC CD)</li> <li>Customization Center CD-ROM</li> <li>Lotus SmartSuite Millennium CD-ROM</li> <li>Product Recovery CD-ROM</li> </ul>																																			
	3.2GB = Ultra DMA/33 or PIO Mode 4 4.3GB = Ultra DMA/33 or PIO Mode 4 6.4GB = Ultra DMA/33 or PIO Mode 4 10GB = Ultra DMA/33 or PIO Mode 4 All disks are S.M.A.R.T. <sup>29</sup> compliant																																			
	<b>FEATURES</b> <b>Wired for Management 1.1a compliant</b> <b>DMI 2.0 compliant</b> <b>PC 97 compliant</b> <b>ACPI ready</b> (APM enabled) <b>Wake on LAN™ support<sup>28</sup></b> Setup Guide, User's Reference, Windows 98 manual, and Quick Reference Card System Status Indicators Plug and Play 1.0a Standby, suspend, and hibernation modes <b>ENERGY STAR compliant</b> <b>International Warranty Service<sup>14</sup></b> <b>IBM SystemXtra™<sup>35</sup></b> <b>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (<a href="http://www.ibm.com/pc/us">www.ibm.com/pc/us</a>) support</b>																																			

# IBM ThinkPad® 390E - withdrawn

<b>IBM® ThinkPad®</b>							
Processor	Intel® Mobile Celeron™ 300 or 366MHz <sup>1</sup> or Mobile Pentium® II 300PE or 333MHz / 66MHz system bus						
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module (MMC2) Celeron: 128KB; Pentium II: 256KB; All: onboard (full speed) / sync pipelined burst / ECC / write-back						
L2 cache	Internal 3.5" 1.44MB / removable from UltraBay FX / on right side / integrated with CD-ROM / no external diskette port						
Diskette drive	CD-ROM / 24X-10X <sup>6</sup> speed / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive						
CD-ROM	Option: Removable UltraBay FX option / 2X <sup>5</sup> DVD integrated with a diskette drive						
DVD-ROM							
Type - model	<= 2626-90U	<= 2626-C0U	<= 2626-D0U	<= 2626-E0U	<= 2626-ENU	<= 2626-A0U	<= 2626-B0U
Processor	Celeron 300MHz	PII 300PEMHz	PII 300PEMHz	PII 333MHz	PII 333MHz	PII 333MHz	Celeron 366
Disk - size / ms	3.2GB <sup>4</sup> / 13ms	3.2GB / 13ms	4.3GB / 13ms	6.4GB / 12ms	6.4GB / 12ms	None	4.8GB / 12/14ms
Preload (see side)	Windows 98	Windows 98	Windows 98	Windows 98	NT 4.0	None	Windows 98
Available date	March 1999	March 1999	March 1999	March 1999	March 1999	April 1999	June 1999
Display (diagonal)	12.1" TFT SVGA	13.3" TFT XGA	14.1" TFT XGA	14.1" TFT XGA	14.1" TFT XGA	14.1" TFT XGA	12.1" TFT SVGA
Display - size and type	12.1" TFT color 308mm / Active Matrix		13.3" TFT color 338mm / Active Matrix		14.1" TFT color 358mm / Active Matrix		
Display - technology	SVGA / 800x600 / 30ms / 150 nits		XGA / 1024x768 / 30ms / 120 nits		XGA / 1024x768 / 20 to 30ms / 120 nits		
	16.7 million colors / 100 to 1 contrast		16.7 million colors / 100 to 1 contrast		16.7 million colors / 150 to 1 contrast		
Graphics - controller	NeoMagic™ MagicMedia256AV™ (NM2200) / 128-bit engine, 256-bit memory interface / 1X AGP / DDC2B / 2.5MB / SGRAM (embedded) / motion compensation / color space conversion / interpolation in X and Y axis						
Graphics - features	Simultaneous LCD and CRT <sup>26</sup> / 150 degree tilt / multiple-monitor support <sup>26</sup>						
Memory - std / max	32MB / 256MB <sup>33</sup>		64MB / 256MB <sup>33</sup>		0MB / 256MB <sup>33</sup>		32MB / 256MB <sup>33</sup>
Memory - features	SDRAM / non-parity / 66MHz / 3.3 volt / 64-bit 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory / Sockets accessed from bottom via removing cover held by phillips-head screw						
Disk controller	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks/ 13ms read / 14ms write / S.M.A.R.T. <sup>29</sup>						
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet						
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / Center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps						
Dimensions	90U/COU/BOU: 12.4 x 10.1 x 1.8" (225 cu in) Others: 12.4 x 10.2 x 1.8"						
Weight <sup>2</sup> (with batt/disk)	Celeron models: 7.5 lbs (3.4 kg) Pentium models: 7.7 lbs (3.5 kg)						
Case material	PC/ABS plastic						
Battery - type	90U/COU/DOU/BOU: NiMH / intelligent / left side Others: Li-Ion / intelligent						
Battery - life <sup>10</sup> (1 batt)	90U/COU: 3.0 hrs DOU: 4 hrs E0U/ENU: 3.8 hrs BOU: 2.67 hrs						
Charge time <sup>10</sup>	90U/COU/BOU: 5 hrs on / 2.5 hrs off Others: 6 hrs on / 3 hrs off						
Architecture	Intel 440BX AGPset / Intel PIIX4E (EIDE, PCI to ISA bridge, USB) Texas Instruments® TI1251A PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)						
Docking station	None						
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / ThinkPad 560 Port Replic						
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video						
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)						
Other features	APM-aware BIOS / Ultralim AC adapter, barrel, 3-prong, 56 watts						
Video (TV) out	S-Video out connector on side (does not require cable) / Chrontel Ch7004C-T						
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)						
Data/fax modem	56K <sup>37</sup> V.90 / integrated in system / PCI / Lucent 1646 / not voice-capable						
Audio	16-bit SoundBlaster Pro™ compatible / ESS 1946 / PCI / full duplex						
Speakers	Two Altec Lansing® stereo speakers on display (1 watt)						
Audio features	Dial volume control (right side) / internal microphone						
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack						
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps						
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX						
Limited warranty <sup>11</sup>	1 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)						
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date						

Color depth	LCD	External Monitor			OPTIONS		
Resolution	TFT	60Hz	75Hz	85Hz			
640x480	16M	16M	16M	16M	- 32MB SO DIMM 3.3v NP SDRAM	76H0294	
800x600	16M	16M	16M	16M	- 64MB SO DIMM 3.3v NP SDRAM	20L0241	
1024x768	16M	16M	16M	16M	- 128MB SO DIMM 3.3v NP SDRAM	01K1150	
1280x1024	--	256	--	--	- ThinkPad 560 Port Replicator	46H4209	
					- Port Replicator w/ Advanced EtherJet	05K4872	
					- ThinkPad 390/i Series Li-Ion Battery	02K6513	
					- Ultralim 56 watt AC Adapter (3-prong)	02K6545	
					- 6.4GB disk with UltraBay FX adapter	05K8923	
					- 10GB disk with UltraBay FX adapter	05K8983	
					- DVD/Diskette (for UltraBay FX)	05K8921	
					- CD/Diskette (for UltraBay FX)	05K8986	
					- 900MHz Cordless Computer Conn	04K0064	
					- V.90 PC Card Modem with XJACK <sup>24</sup>	10L7393	
					- 10/100 Ethernet CardBus PC Card	08L3147	
					- Smart Card Security Kit	33L5075	
					- ThinkPad Proven™ solutions <sup>12</sup> (visit <a href="http://www.ibm.com/pc/us/thinkpad/proven">www.ibm.com/pc/us/thinkpad/proven</a> )		
					Pressing F1 during startup brings up IBM BIOS		
All models: - C: drive is FAT16 of 2GB - D: drive is FAT32 of remaining space							
The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports: • standard diskette/CD-ROM (warm swap; W98) • optional DVD/CD-ROM (warm swap; W98) • optional second battery (hot swap; W98/NT); same battery as main one • optional second disk (cold swap) • optional ThinkPad Proven™ solutions <sup>12</sup>							
					<b>WINDOWS 98 PRELOAD<sup>16</sup></b> <ul style="list-style-type: none"> <li>• Microsoft® Windows® 98</li> <li>• Online User's Guide</li> <li>• ThinkPad Configuration Program</li> <li>• ThinkPad Utilities</li> <li>• IBM Update Connector</li> <li>• RingCentral Fax</li> <li>• Ergonomics</li> <li>• Intelliquest Registration</li> <li>• Puma IntelliSync 97 (infrared)</li> <li>• IBM Global Network Dialer</li> <li>• Netscape Communicator</li> <li>• Lotus® SmartSuite Millennium<sup>20</sup></li> <li>• PC Doctor</li> <li>• ConfigSafe</li> <li>• Norton AntiVirus (OEM Version)</li> <li>• ThinkPad on the Net (TCC CD)</li> <li>• Universal Management Agent</li> <li>• Customization Center CD</li> <li>• Lotus SmartSuite Millennium CD-ROM</li> <li>• Recovery CD-ROM (Windows 98)</li> <li>• Recovery CD-ROM (Windows 95)<sup>7</sup></li> </ul>		
					<b>WINDOWS NT PRELOAD<sup>16</sup></b> <ul style="list-style-type: none"> <li>• Microsoft Windows NT® 4.0</li> <li>• Service Pack 4</li> <li>• ThinkPad Utilities</li> <li>• Online User's Guide</li> <li>• ThinkPad Configuration Program</li> <li>• Ergonomics</li> <li>• IBM Registration</li> <li>• Puma IntelliSync 97 (infrared)</li> <li>• IBM Global Network Dialer</li> <li>• Netscape Communicator</li> <li>• Lotus SmartSuite Millennium<sup>20</sup></li> <li>• Universal Management Agent</li> <li>• ConfigSafe</li> <li>• Norton AntiVirus (OEM Version)</li> <li>• IBM Update Connector</li> <li>• SystemSoft CardWizard</li> <li>• Universal Management Agent</li> <li>• Software Selections CD-ROM</li> <li>• Recovery CD-ROM (Windows NT)</li> </ul>		
					<b>FEATURES</b> Wired for Management 1.1a compliant DMI 2.0 compliant PC 98 compliant ACPI ready (APM enabled) Wake on LAN® support <sup>28</sup> Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card System Status Indicators Plug and Play 1.0a Standby, suspend, and hibernation modes ENERGY STAR compliant International Warranty Service <sup>14</sup> IBM SystemXtra® <sup>35</sup> 24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet ( <a href="http://www.ibm.com/pc/us">www.ibm.com/pc/us</a> ) support		

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 <= Withdrawn from marketing by December 1999

No warranties are expressed or implied in this summary  
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# IBM ThinkPad® 390X - withdrawn

IBM® ThinkPad®						
Processor	Intel® Mobile Celeron™ 400MHz <sup>1</sup> or Mobile Pentium® II 400MHz / 66MHz system bus					
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel Mobile Module (MMC2)					
L2 cache	Celeron: 128KB; Pentium II: 256KB; All: onboard (full speed) / sync pipelined burst / ECC / write-back					
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay™ FX / on right side / integrated with CD-ROM / no external diskette port					
CD-ROM	CD-ROM / 24X-10X <sup>6</sup> speed / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive					
DVD-ROM	Option: Removable UltraBay FX option / 4X-1X <sup>6</sup> DVD integrated with a diskette drive					
Type - model	2626-F0U	2626-H0U	2626-HNU	2626-J0U	2626-JNU	
Processor / MHz	Celeron 400	Pentium II 400	Pentium II 400	Pentium II 400	Pentium II 400	
Disk - size / read ms	4.8GB <sup>4</sup> / 13ms	6.4GB / 12ms	6.4GB / 12ms	6.4GB / 12ms	6.4GB / 12ms	
Preload (see side)	Windows 98	Windows 98	NT 4.0	Windows 98	NT 4.0	
Avail / withdrawn date	Sept 99 / Jul 00	Sept 99 / Jul 00	Sept 99 / Jul 00	Sept 99 / Jul 00	Sept 99 / Jul 00	
Display (diagonal)	12.1" TFT SVGA	14.1" TFT XGA	14.1" TFT XGA	15" TFT XGA	15" TFT XGA	
Display - size and type	12.1" TFT color 308mm / Active Matrix SVGA / 800x600 / 20 to 30ms / 150 nits		14.1" TFT color 358mm / Active Matrix XGA / 1024x768 / 20 to 30ms / 120 nits		15.0" TFT color 381mm / Active Matrix XGA / 1024x768 / 10 to 30ms / 120 nits	
Display - technology	16.7 million colors / 150 to 1 contrast		16.7 million colors / 150 to 1 contrast		16.7 million colors / 150 to 1 contrast	
Graphics controller	NeoMagic™ MagicMedia256AV™ (NM2200) / 128-bit engine, 256-bit memory interface / 1X AGP / DDC2B / 2.5MB / SGRAM (embedded) / motion compensation / color space conversion / interpolation in X and Y axis Simultaneous LCD and CRT <sup>26</sup> / 150 degree tilt / multiple-monitor support <sup>26</sup>					
Memory - std / max	64MB / 512MB <sup>33</sup>					
Memory - features	SDRAM / non-parity / 100MHz / PC100-compliant / 3.3 volt / 64-bit / 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory / Sockets accessed from bottom via removing cover held by phillips-head screw					
Disk controller	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks / 13ms read / 14ms write / S.M.A.R.T. <sup>29</sup>					
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet					
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps					
Dimensions	12.1"/14.1": 12.4 x 10.1 x 1.8" (225 cu in) 15": 12.9 x 10.6 x 1.8" (246 cu)					
Weight <sup>2</sup> (with batt/disk)	12.1" and 14.1" models: 7.5 lbs (3.4 kg) 15" models: 7.9 lbs (3.6 kg)					
Case material	PC/ABS plastic					
Battery - type	F0U: NiMH / intelligent / left side Others: Li-Ion / intelligent / left side					
Battery - life <sup>10</sup> (1 batt)	F0U: 2.5 hrs Gxx/Hxx: 3.67 hrs Jxx: 3.5 hrs					
Charge time <sup>10</sup>	F0U/Hxx: 5 hrs on / 2.5 hrs off Jxx: 6 hrs on / 3 hrs off					
Architecture	Intel 440BX AGPset / Intel PIIX4E (EIDE, PCI to ISA bridge, USB) Texas Instruments® TI1251B PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)					
Docking station	None					
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / Basic Port Replicator					
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video					
USB / serial / parallel	One USB / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)					
Other features	APM-aware BIOS / Ultralim AC adapter, barrel, 3-prong, 56 watts					
Video (TV) out	S-Video out connector on side (does not require cable) / Chrontel Ch7004C-T					
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)					
Data/fax modem	56K <sup>22</sup> V.90 / integrated in system / PCI / Lucent 1646 / not voice-capable / conforms to earlier draft specs similar to Mini PCI Type IIIb					
Audio	16-bit SoundBlaster Pro™ support / ESS 1946 / PCI / full duplex					
Speakers	Two Altec Lansing® stereo speakers (1 watt) on display (on front for 15" mod)					
Audio features	Dial volume control (right side) / internal microphone					
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack					
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps					
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX					
Limited warranty <sup>11</sup>	1 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)					
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date					
<b>Color depth</b>	<b>LCD</b>	<b>External Monitor</b>			<b>OPTIONS</b>	
<b>Resolution</b>	<b>TFT</b>	<b>60Hz</b>	<b>75Hz</b>	<b>85Hz</b>		
640x480	16M	16M	16M	16M	- 32MB SO DIMM 100MHz NP SDRAM 20L0253	
800x600	16M	16M	16M	16M	- 64MB SO DIMM 100MHz NP SDRAM 20L0254	
1024x768	16M	16M	16M	16M	- 128MB SO DIMM 100MHz NP SDRAM 20L0255	
1280x1024	--	256	--	--	- 256MB SO DIMM 100MHz NP SDRAM 33L3069	
All models:	- C: drive is FAT16 of 2GB					
	- D: drive is FAT32 of remaining space					
The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports:	<ul style="list-style-type: none"> <li>standard diskette/CD-ROM (warm swap with Windows 98)</li> <li>optional DVD/CD-ROM (warm swap; W98)</li> <li>optional second battery (hot swap; W98/NT); same battery as main one</li> <li>optional second disk (cold swap)</li> <li>optional ThinkPad Proven™ solutions<sup>12</sup></li> </ul>					
	<ul style="list-style-type: none"> <li>10/100 EtherJet Ready Port CardBus Adapter with 56K modem 34L1301</li> <li>10/100 Ethernet CardBus PC Card 08L3147</li> <li>IBM Portable Drive Bay 37L1511</li> <li>6.4GB disk with UltraBay FX adapter 05K8923</li> <li>10GB disk with UltraBay FX adapter 05K8983</li> <li>12GB disk with UltraBay FX adapter 05K9268</li> <li>4X-1X DVD/Diskette (for UltraBay FX) 05K9129</li> <li>CD/Diskette (for UltraBay FX) 05K8986</li> </ul>					
	Pressing F1 during startup brings up IBM BIOS Setup Utility					
<b>WINDOWS 98 PRELOAD<sup>16</sup></b>						
<ul style="list-style-type: none"> <li>Microsoft® Windows® 98</li> <li>Access ThinkPad</li> <li>Online User's Guide</li> <li>ThinkPad Configuration Program</li> <li>ThinkPad Utilities</li> <li>IBM Update Connector</li> <li>RingCentral Fax</li> <li>Ergonomics</li> <li>Intelliquest Registration</li> <li>Puma IntelliSync 97 (infrared)</li> <li>IBM Global Network Dialer</li> <li>Netscape Communicator</li> <li>Lotus® SmartSuite® Millennium<sup>20</sup></li> <li>PC-Doctor</li> <li>ConfigSafe®</li> <li>Norton AntiVirus™ (OEM Version)</li> <li>Universal Management Services</li> <li>Software Selections CD</li> <li>Lotus SmartSuite Millennium CD-ROM</li> <li>Recovery CD-ROM (Windows 98)</li> <li>Recovery CD-ROM (Windows 95)<sup>7</sup></li> </ul>						
<b>WINDOWS NT PRELOAD<sup>16</sup></b>						
<ul style="list-style-type: none"> <li>Microsoft Windows NT® 4.0</li> <li>Service Pack 4</li> <li>ThinkPad Utilities</li> <li>Online User's Guide</li> <li>ThinkPad Configuration Program</li> <li>Ergonomics</li> <li>Intelliquest Registration</li> <li>Puma IntelliSync 97 (infrared)</li> <li>IBM Global Network Dialer</li> <li>Netscape Communicator</li> <li>ConfigSafe</li> <li>Norton AntiVirus (OEM Version)</li> <li>IBM Update Connector</li> <li>SystemSoft CardWizard</li> <li>Universal Management Services</li> <li>Software Selections CD-ROM</li> <li>Lotus SmartSuite Millennium CD-ROM</li> <li>Recovery CD-ROM (Windows NT)</li> </ul>						
<b>FEATURES</b>						
<ul style="list-style-type: none"> <li>Wired for Management 1.1a-compliant</li> <li>DMI 2.0-compliant</li> <li>PC 98-compliant</li> <li>ACPI ready (APM enabled)</li> <li>Wake on LAN® support<sup>28</sup></li> <li>Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card</li> <li>System Status Indicators</li> <li>Plug and Play 1.0a</li> <li>Standby, suspend, and hibernation modes</li> <li>ENERGY STAR-compliant</li> <li>International Warranty Service<sup>14</sup></li> <li>IBM SystemXtra®.<sup>35</sup></li> <li>24 hour / 7 day<sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</li> </ul>						

# IBM ThinkPad® 390X (Pentium III) - withdrawn

<b>IBM® ThinkPad®</b>					
Processor	<b>Intel® Mobile Mobile Pentium® III 450 or 500MHz<sup>1</sup> / 100MHz system bus</b>				
Processor features	No upgrade / processor, L2 cache, and memory controller (North Bridge) on Intel Mobile Module (MMC2)				
L2 cache	<b>256KB</b> / at processor speed / sync pipelined burst / ECC / write-back				
Diskette drive	Internal 3.5" 1.44MB / removable from UltraBay™ FX / on right side / integrated with CD-ROM / no external diskette port				
CD-ROM	<b>CD-ROM / 24X-10X<sup>5</sup> speed</b> / ATAPI / bootable / removable from UltraBay FX / on right side / integrated with diskette drive				
DVD-ROM	<i>Option:</i> Removable UltraBay FX option / 4X-1X <sup>6</sup> DVD integrated with a diskette drive				
Type - model	≈ <b>2626-L0U</b>	≈ <b>2626-LNU</b>	≈ <b>2626-L2U</b>	≈ <b>2626-M0U</b>	≈ <b>2626-MNU</b>
Processor / MHz	<b>Pentium III 450MHz</b>	<b>Pentium III 450MHz</b>	<b>Pentium III 450MHz</b>	<b>Pentium III 500MHz</b>	<b>Pentium III 500MHz</b>
Disk - size / read ms	<b>12.0GB<sup>4</sup> / 12ms</b>	<b>12.0GB / 12ms</b>	<b>12.0GB / 12ms</b>	<b>12.0GB / 12ms</b>	<b>12.0GB / 12ms</b>
Preload (see side)	<b>Windows 98 SE</b>	<b>NT 4.0</b>	<b>Windows 2000</b>	<b>Windows 98 SE</b>	<b>NT 4.0</b>
Avail / withdrawn date	Dec 1999 / Oct 2000	Dec 1999 / Oct 2000	Feb 2000 / Oct 2000	Dec 1999 / Jan 2001	Dec 1999 / Jan 2001
Display (diagonal)	<b>14.1" TFT XGA</b>	<b>14.1" TFT XGA</b>	<b>14.1" TFT XGA</b>	<b>15" TFT XGA</b>	<b>15" TFT XGA</b>
Display - size and type	<b>14.1" TFT color 358mm / Active Matrix</b>			<b>15.0" TFT color 381mm / Active Matrix</b>	
Display - technology	<b>XGA / 1024x768 / 20 to 30ms / 120 nits</b>			<b>XGA / 1024x768 / 10 to 30ms / 120 nits</b>	
	<b>16.7 million colors / 150 to 1 contrast</b>			<b>16.7 million colors / 150 to 1 contrast</b>	
Graphics controller	<b>NeoMagic™ MagicMedia256AV™ (NM2200) / 128-bit engine, 256-bit memory interface / 1X AGP / DDC2B / 2.5MB / SGRAM (embedded) / motion compensation / color space conversion / interpolation in X and Y axis / simultaneous LCD and CRT<sup>26</sup> / 150 degree tilt / multiple-monitor support<sup>26</sup></b>				
Memory - std / max	<b>64MB / 512MB<sup>33</sup></b>				
Memory - features	<b>SDRAM</b> / non-parity / 100MHz / PC100-compliant / 3.3 volt / 64-bit / 2 sockets for JEDEC 144-pin SO DIMMs / one socket used by std memory / sockets accessed from bottom via removing cover held by phillips-head screw				
Disk controller	EIDE / PCI 2.1 / one internal disk / disk can be removed to upgrade by customer / supports two internal disks / 13ms read / 14ms write / S.M.A.R.T. <sup>29</sup>				
Keyboard	Full-size 85-key (7 Fn key functions) / palm rest / keyboard slope with tilt feet				
Pointing	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center button for scrolling (Internet Scroll Bar) or magnifying glass / spare caps				
Dimensions <sup>36</sup>	<b>14.1" mod:</b> 12.4 x 10.2 x 1.8" (228 cu in) <b>15" mod:</b> 12.9 x 10.6 x 1.8" (246 cu)				
Weight <sup>2</sup> (with batt/disk)	<b>14.1" models:</b> 7.7 lbs (3.5 kg) <b>15" models:</b> 7.9 lbs (3.6 kg)				
Case material	PC/ABS plastic				
Battery - type	Li-Ion / intelligent / left side				
Battery - life <sup>10</sup> (1 batt)	<b>14.1" models:</b> 3.7 hrs <b>15" models:</b> 3.3 hrs				
Charge time <sup>10</sup>	<b>14.1" models:</b> 5 hrs on / 2.5 hrs off <b>15" models:</b> 6 hrs on / 3 hrs off				
Architecture	<b>Intel 440BX AGPset / Intel PIIX4E (EIDE, PCI to ISA bridge, USB) / Texas Instruments® T11251B PCMCIA controller / NS PC97338 (FDC, IR, I/O) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB, audio, modem) ISA (diskette, serial, parallel, infrared)</b>				
Docking station	None				
Port replicator	ThinkPad Port Replicator with Advanced EtherJet™ / Basic Port Replicator				
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed video				
USB / serial / parallel	<b>One USB</b> / one 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / Ultrasmil AC adapter, barrel, 3-prong, 56 watts				
Video (TV) out	S-Video out connector on side (does not require cable) / Chrontel Ch7004C-T				
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)				
Data/fax modem	<b>56K<sup>37</sup> V.90</b> / integrated in system / PCI / Lucent 1646 / not voice-capable / conforms to earlier draft specs similar to Mini PCI Type IIIb				
Audio	16-bit SoundBlaster Pro™ support / ESS 1946 / PCI / full duplex				
Speakers	Two Altec Lansing® stereo speakers (1 watt) on display (on front for 15" mod)				
Audio features	Dial volume control (right side) / internal microphone				
Audio in/out jacks	Microphone jack (stereo) / headphone jack (stereo) / line-in jack				
Infrared ports	Infrared port on left side / IrDA 1.1 compatible / up to 4Mbps				
Security	Power-on password / setup password / disk password / security keyhole / security screw for UltraBay FX				
Limited warranty <sup>11</sup>	<b>1 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)				
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date				

Color depth	LCD	External Monitor			OPTIONS	
Resolution	TFT	60Hz	75Hz	85Hz		
640x480	16M	16M	16M	16M	- 32MB SO DIMM 100MHz NP SDRAM	20L0253
800x600	16M	16M	16M	16M	- 64MB SO DIMM 100MHz NP SDRAM	20L0254
1024x768	16M	16M	16M	16M	- 128MB SO DIMM 100MHz NP SDRAM	20L0255
1280x1024	--	256	--	--	- 256MB SO DIMM 100MHz NP SDRAM	33L3069
					- Basic (ThinkPad 560) Port Replicator	46H4209
					- Port Replicator w/ Advanced EtherJet	05K4872
					- ThinkPad 390 Li-Ion Battery	02K6513
					- Ultrasmil 56 watt AC Adapter (3-prong)	02K6545
					- 6.4GB disk with UltraBay FX adapter	05K8923
					- 10GB disk with UltraBay FX adapter	05K8983
					- 12GB disk with UltraBay FX adapter	05K9268
					- 4X-1X DVD/Diskette (for UltraBay FX)	05K9129
					- CD/Diskette (for UltraBay FX)	05K8986
					- 10/100 EtherJet Ready Port CardBus Adapter with 56K modem	34L1301
					- 10/100 Ethernet CardBus PC Card	08L3147
					- Smart Card Security Kit	33L5075
					- IBM Portable Drive Bay	37L1511
					- IBM MultiPort USB Hub	00N8215

The right bay (UltraBay FX) has a device lock on the bottom of the system and a bay LED which should be off to safely remove a device; it supports:

- standard diskette/CD-ROM (warm swap with Windows 98)
- optional DVD/CD-ROM (warm swap; W98)
- optional second battery (hot swap; W98/NT); same battery as main one
- optional second disk (cold swap)
- optional ThinkPad Proven™ solutions<sup>12</sup>

Windows 2000 model:  
- C: drive is FAT32 of entire disk

- WINDOWS 98 PRELOAD<sup>16</sup>**
- Microsoft® Windows® 98 Second Edition
  - Access ThinkPad
  - Online User's Guide
  - ThinkPad Configuration Program
  - ThinkPad Utilities
  - IBM Update Connector
  - RingCentral Fax
  - ThinkPad on the Net
  - Intelliquest Registration
  - IBM Global Network Dialer
  - Netscape Communicator
  - Lotus® SmartSuite® Millennium<sup>20</sup>
  - PC-Doctor
  - ConfigSafe®
  - Norton AntiVirus™ (OEM Version)
  - Universal Management Services (web)
  - ◇ Software Selections CD
  - ◇ Lotus SmartSuite Millennium CD-ROM
  - ◇ Recovery CD-ROM (Windows 98)
  - ◇ Recovery CD-ROM (Windows 95)<sup>7</sup>
- WINDOWS 2000 PRELOAD<sup>16</sup>**
- Windows 2000® Professional
  - ThinkPad Utilities
  - Online User's Guide
  - ThinkPad Configuration Program
  - IBM Registration
  - PC-Doctor
  - RingCentral Fax
  - Netscape Communicator
  - ConfigSafe
  - IBM Update Connector
  - SystemSoft CardWizard
  - Norton AntiVirus™ (OEM Version)
  - Universal Management Services (web)
  - ◇ Lotus SmartSuite Millennium CD
  - ◇ Software Selections CD-ROM
  - ◇ Recovery CD-ROM (Windows 2000)
  - ◇ Recovery CD-ROM (Windows NT)<sup>40</sup>

- FEATURES**
- Wired for Management 1.1a-compliant
  - DMI 2.0-compliant
  - PC 98-compliant
  - ACPI ready (APM enabled)
  - Wake on LAN® support<sup>28</sup>
  - Setup Guide, User's Reference, Windows OS manual, and Quick Reference Card
  - System Status Indicators
  - Plug and Play 1.0a
  - Standby, suspend, and hibernation modes
  - ENERGY STAR-compliant
  - International Warranty Service<sup>14</sup>
  - IBM SystemXtra®.<sup>35</sup>
  - 24 hour / 7 day<sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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≈ = Withdrawn from marketing

No warranties are expressed or implied in this summary  
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# IBM ThinkPad 560 - withdrawn

<b>IBM® ThinkPad®:</b> Processor type Processor upgrade L2 cache Diskette drive External FDD port CD-ROM drive	>= 560 11.3" Dual Scan SVGA color <b>Pentium® 100/66, 120/60, 133/66 MHz</b> / 64 bit to transfers to memory None None External 3.5" 1.44 MB (connects to left side) / includes case with a cable External FDD port (works with standard external diskette; no kit reqd) None (CD-ROM drive as OEM option via PCMCIA or parallel port)	>= 560 12.1" TFT SVGA color None None External 3.5" 1.44 MB (connects to left side) / includes case with a cable External FDD port (works with standard external diskette; no kit reqd) None (CD-ROM drive as OEM option via PCMCIA or parallel port)	<b>ThinkPad 560 key features:</b> ⇨ Next generation <b>ultraportable notebook</b> ⇨ <b>Slim: 1.2 inches</b> ⇨ <b>Lightweight: 4.1 pounds</b> ⇨ <b>Full size keyboard</b> ⇨ <b>Pentium 100/66 to 133/66 MHz</b> ⇨ <b>11.3" Dual Scan SVGA or 12.1" TFT SVGA</b> ⇨ <b>PCI bus</b> ⇨ <b>8 MB EDO memory</b>			
Price Type - model Preload (see side) Avail / withdrawn date Pentium speed Disk - size / ms Disk controller	2640-50A Windows 95 May 96 / June 97 and Apr 97 <b>100/66 MHz</b> <b>810 MB</b> / 13 ms EIDE / busmaster / PCI 2.1 / supports one internal disk	Pallet of 24 2640-50C Blank May 1996 / January 1997	Pallet of 24 2640-E0C Blank May 1996 / January 1997	2640-F0E Windows 95 Jul 96 / Apr 97 <b>133/66 MHz</b> <b>1.08 GB</b> / 13 ms	2640-F0D OS/2 Warp Connect July 1996 / January 1997	Pallet of 24 2640-F0G Blank
Display - size and type Display - technology	<b>11.3" Dual Scan SVGA color</b> 11.3" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	<b>12.1" TFT SVGA color</b> 12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio				
Graphics - controller Graph - arch/data path Graphics - features Graphics - external	Trident™ CYBER9382 / 64 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns PCI 2.1 / 32 bit / 32 bit path to memory / <b>DCI, DirectDraw, EndIVE support</b> Simultaneous LCD and CRT / 135 degree tilt External SVGA to 1024 x 768 w/ 256 colors				<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 - Online User's Guide - ThinkPad Features Program - PC Card Director 4.0 - Diskette Factory 1. Triton CoSession™ Host 2. Lotus Organizer 3. IntelliLink Connect 4. IBM Internet Connection Services with Netscape Navigator web browser 5. Puma TranXit™ 6. CompuServ for Windows 7. NetFinity for Windows 95 - Lotus SmartSuite 96 CD-ROM	
Memory - std / max Memory - features Memory - upgrade	<b>8 MB</b> / 40 MB (72 MB with ThinkPad Proven option) 70 ns / non-parity / 3.3 volt / EDO 1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, or 32 MB				<b>OS/2 WARP CONNECT PRELOAD</b> - IBM OS/2 Warp Connect Version 3 with WIN-OS/2 with BonusPak applications - Online User's Guide - ThinkPad Features Program - PC Card Director 4.0 - Diskette Factory 1. Lotus Organizer 2. Puma TranXit™ 3. IntelliLink Connect 4. NetFinity for OS/2 5. Triton CoSession™ Host; - Lotus SmartSuite 4.0 (entitled to SSuite 96)	
Keyboard / # of keys Keyboard slope Pointing device Palm rest	<b>Full size</b> alp/num / 85 (6 Fn key functions) <b>Large palm rest</b> / keyboard remains flat (no sloop) / opt P Replicator adds slope TrackPoint III™ / no drag lock keys Integrated palm rest / external keyboard support (with optional cable 54G0441)					
Dimensions Weight	11.7 x 8.7 x 1.22" (124 cubic inches) 4.12 pounds (1.87 kg)   4.10 pounds (1.86 kg)					
Battery - type Battery - life (1 batt) Charge time - on / off	Lithium Ion / intelligent 3 hours 2.5 to 3.5 hrs / 1.5 hrs					
Architecture Docking Station Port replicator PCMCIA™ 2.1 slots Serial / parallel ports Other features	ISA (audio, diskette, serial, parallel, infrared) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX None ThinkPad 560 Port Replicator 2 Type I or 2 Type II or 1 Type III One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) Universal AC Adapter 2 prong (35 watts) with barrel connector / APM-aware BIOS / Selectable boot IBM BIOS				<b>BLANK PRELOAD</b> - License for SmartSuite	
Video in/out MPEG decoder DSP function Data/fax modem Audio support	None None None None <b>16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688</b> Int stereo speakers / .5 watt / rotary volume control / internal microphone Input jack (3.5 mm) / Output jack (3.5 mm) / not full duplex speaker/mic					
Jacks Telephone Infrared ports	None None <b>Infrared port (left side) / IrDA 1.0 compatible / up to 115 Kbps</b>					
Security	Power-on password / Locking device keyhole on back ( Kensington™ cable lock) / Personalization screen at startup					
Preinstalled software Warranty	Windows 95 with applications (listed on right) <b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in					
Easy-Setup is entered by holding F1 when turning on.  810 MB = DMA Mode 2 or PIO Mode 4 1.08 GB = DMA Mode 2 or PIO Mode 4  Fn + F2 = Battery gauge Fn + F3 = Standby Fn + F4 = Suspend Fn + F7 = LCD/CRT/Simultaneous Fn + F11 = Power mgmt Fn + F12 = Hibernation  <b>Hardware acceleration</b> of Video for Windows™ is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled		Compatible in ThinkPad 560 family: - Disks: (365/760 IDE disks not supported) 1.08 GB HDD II EIDE 13 ms 46H4208 2.1 GB HDD 14 ms 45H8783 - ThinkPad 560 Port Replicator 46H4209 - ThinkPad 560 Li-Ion Battery Pack 46H4206 - 35 watt AC Adapter - barrel/3 prong 85G6719 - 35 watt AC Adapter (slim, 2 pin) 76H0139 - 8 MB SO DIMM 3.3v NP EDO 64 bit 92G7340 - 16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341 - 32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342  Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).  System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.				
		The optional <b>ThinkPad 560 Port Replicator</b> acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope.				
		<b>FEATURES OF 560 MODELS</b> Quick Setup Guide Plug and Play 1.0a Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate indentation Personalization screen at startup <b>International Warranty Service 24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>				

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

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 No warranties are expressed or implied in this summary  
 (560) Compiled by Roger Dodson, IBM. June 1997

>= Withdrawn from marketing

# IBM ThinkPad 560 (1997 models) - withdrawn

<b>IBM® ThinkPad®:</b>	<b>≧ 560</b>	<b>≧ 560</b>	<b>ThinkPad 560 key features:</b> ⇨ Next generation <b>ultraportable notebook</b> ⇨ <b>Slim: 1.2 inches</b> ⇨ <b>Lightweight: 4.1 pounds</b> ⇨ <b>Full size keyboard</b> ⇨ <b>Pentium 133/66 MHz</b> ⇨ <b>11.3" Dual Scan SVGA or 12.1" TFT SVGA</b> ⇨ <b>PCI bus</b> ⇨ <b>8 MB EDO memory</b>
Processor type	<b>Pentium® 133/66 MHz</b> / 64 bit to transfers to memory	11.3" Dual Scan SVGA color	
Processor upgrade	None		
L2 cache	None		
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable		
External FDD port	External FDD port (works with standard external diskette; no kit reqd)		
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)		
Code name	Kinzie 3		
Price			
Type - model	<b>2640-10U</b>	<b>2640-20U</b>	
Preload (see side)	<b>Windows 95 OSR2</b>		
Avail / withdrawn date	February 1997 / January 1998		
Disk - size / ms	<b>2.1 GB</b> / 14 ms / DMA Mode 2 or PIO Mode 4		
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk		
Display - size and type	<b>11.3" Dual Scan SVGA color</b>   <b>12.1" TFT SVGA color</b>		
Display - technology	11.3" SVGA color / 640 x 480 or 800 x 600 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio	12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio	
Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 1 MB fast page DRAM / 70 ns		
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / DCI, DirectDraw, EnDIVE support		
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt		
Graphics - external	External SVGA to 1024 x 768 with 256 colors		
Memory - std / max	<b>8 MB</b> / 40 MB (72 MB w/ ThinkPad Proven option)		
Memory - features	70 ns / non-parity / 3.3 volt / EDO		
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO DIMM of 8, 16, or 32 MB		
Keyboard / # of keys	<b>Full size</b> alp/num / 85 keys (6 Fn key functions)		
Keyboard slope	<b>Large palm rest</b> / keyboard remains flat (no sloop) / opt P Replicator adds slope		
Pointing device	TrackPoint III™ / no drag lock keys		
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)		
Dimensions	11.7 x 8.7 x 1.22" (124 cubic inches)		
Weight	4.12 pounds (1.87 kg)	4.10 pounds (1.86 kg)	
Battery - type	Lithium Ion / intelligent		
Battery - life (1 batt)	3 hours		
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs		
Architecture	ISA (audio, diskette, serial, parallel, infrared) PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX		
Docking Station	None		
Port replicator	ThinkPad 560 Port Replicator		
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Universal AC Adapter 2 prong (35 watts) with barrel connector (slim) / APM-aware BIOS / Selectable boot IBM BIOS		
Video in/out	None		
MPEG decoder	None		
DSP function	None		
Data/fax modem	None		
Audio support	<b>16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688</b> Internal stereo speakers / .5 watt / rotary volume control / internal microphone		
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)		
Telephone	None		
Infrared ports	<b>Infrared port (left side) / IrDA 1.0 compatible / up to 115 Kbps</b>		
Security	Power-on password / hard disk password / Locking device keyhole on back (Kensington™ cable lock) / Personalization screen at startup		
Preinstalled software	Windows 95 with applications (listed on right)		
Warranty	<b>1 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in		
Easy-Setup is entered by holding F1 when turning on.			
Fn + F2 = Battery gauge			
Fn + F3 = Standby			
Fn + F4 = Suspend			
Fn + F7 = LCD/CRT/Simultaneous			
Fn + F11 = Power mgmt			
Fn + F12 = Hibernation			
<b>Hardware acceleration</b> of 'Video for Windows™' is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled			
System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.			
	<b>OPTIONS</b>		
	- Disks: (365/760 IDE disks not supported)		
	1.08 GB HDD II EIDE 13 ms 46H4208		
	2.1 GB HDD 14 ms 45H8783		
	4.0 GB HDD 13 ms 02K0501		
	- ThinkPad 560 Port Replicator 46H4209		
	- ThinkPad 560 Li-Ion Battery Pack 46H4206		
	- 35 watt AC Adapter - barrel/3 prong 85G6719		
	- 35 watt AC Adapter (slim, 2 pin) 76H0139		
	- 8 MB SO DIMM 3.3v NP EDO 64 bit 92G7340		
	- 16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341		
	- 32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342		
	- 8-20 x Portable CD-ROM 1969010		
	- 8-20 x Portable Stereo CD-ROM 1969011		
	- Other options from ThinkPad Proven partners		
	Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).		
	<b>FEATURES OF 560 MODELS</b>		
	Quick Setup Guide		
	Plug and Play 1.0a		
	Standby, suspend, safe suspend, and hibernation modes		
	US EPA Energy Star compliant		
	Personalized nameplate indentation		
	Personalization screen at startup		
	<b>International Warranty Service</b>		
	<b>IBM System Care Program</b>		
	<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b>		
	<b>IBM and dealer warranty/service</b>		
	<b>Online Housecall (remote diagnostics)</b>		

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

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 No warranties are expressed or implied in this summary  
 (56097) Compiled by Roger Dodson, IBM. December 1997



# IBM ThinkPad 560E - withdrawn

<b>IBM® ThinkPad®:</b>	➤ 560E	➤ 560E
	11.3" Dual Scan SVGA color	12.1" TFT SVGA color
Processor type	<b>Pentium® 150/60 MHz or 166/66 MHz / both with MMX technology</b> / 64 bit transfers to L2 cache and memory	
Processor upgrade	None	
L2 cache	<b>256 KB</b> / write-back / direct mapped / 8 ns / synchronous pipelined burst	
Diskette drive	External 3.5" 1.44 MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as OEM option via PCMCIA or parallel port)	
Price		
Type - model (code)	<b>2640-30U</b>	<b>2640-40U s</b>
Processor	<b>Pentium 150/60 with MMX</b>	<b>Pentium 166/66 MHz with MMX technology</b>
Preload (see side)	<b>Windows 95 OSR2</b>	
Avail / withdrawn date	June 1997 / January 1998	
Disk - size / ms	<b>2.1 GB</b> / 14 ms / DMA Mode 2 or PIO Mode 4 / SMART	
Disk controller	EIDE / busmaster / PCI 2.1 / supports one internal disk	
Display - size and type	<b>11.3" Dual Scan SVGA color</b>   <b>12.1" TFT SVGA color</b>	
Display - technology	11.3" SVGA color / 640 x 480 or 800 x 600 65,536 sim colors / Dual Scan / 30 to 1 contrast ratio	12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors Black Matrix TFT - active matrix / 100 to 1 contrast ratio
Graphics - controller	Trident™ CYBER9382 / 64 bit SVGA accelerator / 2 MB fast page DRAM / 70 ns	
Graph - arch/data path	PCI 2.1 / 32 bit / 32 bit path to memory / DCI, DirectDraw, EnDIVE support	
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt	
Graphics - external	External SVGA to 1024 x 768 with 256 colors	
Memory - std / max	<b>16 MB</b> / 80 MB	
Memory - features	70 ns / non-parity / 3.3 volt / EDO	
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB	
Keyboard / # of keys	<b>Full size</b> alp/num / 85 keys (6 Fn key functions)	
Keyboard slope	<b>Large palm rest</b> / keyboard remains flat (no sloop) / opt P Replicator adds slope	
Pointing device	TrackPoint III™ / no drag lock keys	
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)	
Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches)	
Weight	4.1 pounds (1.9 kg)   4.1 pounds (1.9 kg)	
Battery - type	Lithium Ion / intelligent	
Battery - life (1 batt)	3 hours	
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs	
Architecture	ISA (audio, diskette, serial, parallel, infrared) / NS PC87334 (FDC, IR, I/O) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, PCMCIA) / Mobile Triton 82430MX	
Docking Station	None	
Port replicator	ThinkPad 560 Port Replicator	
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III / Cirrus Logic® PD6729	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	Universal AC Adapter 2 prong (35 watts) with barrel connector (slim) / APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS	
Video in/out	None	
MPEG decoder	None	
DSP function	None	
Data/fax modem	None	
Audio support	<b>16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688</b> Internal stereo speakers / .5 watt / rotary volume control / internal microphone	
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / not full duplex speakers/mic	
Telephone	None	
Infrared ports	<b>Infrared port (left side) / IrDA 1.1 compatible / up to 4 Mbps</b>	
Security	Power-on password / hard disk password / Locking device keyhole on back (Kensington™ cable lock) / Personalization screen at startup	
Preinstalled software	Windows 95 with applications (listed on right)	
Warranty	<b>1 year</b> - ThinkPad EasyServ (depot repair service) or carry-in	
Service options	On-Site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 3 or 5 years	
Easy-Setup is entered by holding F1 when turning on.		
Fn + F2 = Battery gauge		
Fn + F3 = Standby		
Fn + F4 = Suspend		
Fn + F7 = LCD/CRT/Simultaneous		
Fn + F11 = Power mgmt		
Fn + F12 = Hibernation		
<b>Hardware acceleration</b> of Video for Windows™ is integrated into the 9382 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled		
System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.		
	<b>OPTIONS</b>	
	<ul style="list-style-type: none"> <li>- Disks: (365/760 IDE disks not supported)</li> <li>2.1 GB HDD 14 ms 45H8783</li> <li>4.0 GB HDD 13 ms 02K0501</li> <li>- ThinkPad 560 Port Replicator 46H4209</li> <li>- ThinkPad 560 Li-Ion Battery Pack 46H4206</li> <li>- 35 watt AC Adapter - barrel/3 prong 85G6719</li> <li>- 35 watt AC Adapter (slim, 2 pin) 76H0139</li> <li>- 8 MB SO DIMM 3.3v NP EDO 64 bit 92G7340</li> <li>- 16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341</li> <li>- 32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342</li> <li>- 64 MB SO DIMM 3.3v NP EDO 64 bit 76H0268</li> <li>- External 4 x PCMCIA CD-ROM 1969008</li> <li>- Ext 4 x PCMCIA Stereo CD-ROM 1969009</li> <li>- 8-20 x Portable CD-ROM 1969010</li> <li>- 8-20 x Portable Stereo CD-ROM 1969011</li> <li>- PCMCIA 33.6 Kbps modem 25H6420</li> <li>- PCMCIA 33.6 modem w/ XJACK 55H6759</li> <li>- 56K PC Card Modem Kit 04K0052</li> <li>- Other options from ThinkPad Proven partners</li> </ul>	
	<b>FEATURES OF 560E MODELS</b>	
	<ul style="list-style-type: none"> <li>Quick Setup Guide</li> <li>Plug and Play 1.0a</li> <li>Standby, suspend, safe suspend, and hibernation modes</li> <li>US EPA Energy Star compliant</li> <li>Personalized nameplate indentation</li> <li>Personalization screen at startup</li> <li><b>International Warranty Service</b></li> <li><b>IBM SystemXtra Program</b></li> <li><b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b></li> <li><b>IBM and dealer warranty/service</b></li> <li><b>Online Housecall (remote diagnostics)</b></li> </ul>	
	<p style="text-align: center;"><b>WINDOWS 95 PRELOAD</b></p> <ul style="list-style-type: none"> <li>- Microsoft Windows 95 OSR2 (FAT16)</li> <li>- Online User's Guide</li> <li>- ThinkPad Features Program</li> <li>- PC Card Director 4.0</li> <li>- Diskette Factory</li> <li>1. Triton CoSession™ Host</li> <li>2. CompuServ for Windows</li> <li>3. NetFinity for Windows 95</li> <li>4. Puma TranXit™</li> <li>5. IntelliLink Connect</li> <li>6. IBM Anti-Virus</li> <li>7. IBM Global Network with Netscape web browser</li> <li>8. Registration Mailer</li> <li>9. Lotus Organizer</li> <li>10. Lotus SmartSuite 96</li> <li>- Lotus SmartSuite 96 CD-ROM</li> <li>- Recovery CD-ROM with boot diskette</li> <li>- Windows 95 CD-ROM (no installation)</li> </ul> <p>Disk is not removable (like 755/760 systems), but it can be upgraded via a dealer or service center (not customer installable).</p> <p>The optional <b>ThinkPad 560 Port Replicator</b> acts as a wedge which attaches to the back and bottom of the unit and provides a keyboard slope. Following are its connectors:</p> <ul style="list-style-type: none"> <li>- Release button</li> <li>- Security keyhole</li> <li>- Mouse</li> <li>- Keyboard</li> <li>- External monitor</li> <li>- Parallel</li> <li>- Serial (9 pin)</li> <li>- External diskette drive</li> <li>- Power jack</li> </ul>	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

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(560E) Compiled by Roger Dodson, IBM. December 1997

# IBM ThinkPad® 560X - withdrawn

IBM® ThinkPad®		
Processor type	<b>Pentium® MMX™ 200/66 or 233/66MHz</b> <sup>1</sup> / 64-bit to L2 and memory	New features of 560X (compared to 560E): ⇨ 200 or 233MHz Pentium (vs 150 or 166) ⇨ 32MB memory standard (vs 16MB) ⇨ 96MB maximum memory (vs 80MB) ⇨ CardBus and Zoomed Video PC Cards ⇨ One USB port (vs none) ⇨ Supports Enhanced Port Replicator 430TX (vs 430MX) ⇨ MagicGraph128XD (vs CYBER9382) ⇨ 256K simultaneous colors (vs 64K) ⇨ 56 watt AC Adapter (vs 35 watt) ⇨ ConfigSafe and LANDesk preloaded
Processor upgrade	None	
L2 cache	<b>256KB</b> / write-back / direct mapped / 8ns / synchronous pipelined burst	
Diskette drive	External 3.5" 1.44MB (connects to left side) / includes case with a cable	
External FDD port	External FDD port (works with standard external diskette; no kit reqd)	
CD-ROM drive	None (CD-ROM drive as option via PCMCIA or parallel port)	
Price		
Type - model (code)	<b>2640-60U</b>	
Processor	<b>Pentium MMX 200/66MHz</b>	
Preload (see side)	<b>Windows 95 OSR2.1 + IE 4.01</b>	
Avail / withdrawn date	March 1998 / September 1998	<b>WINDOWS 95 PRELOAD<sup>16</sup></b> - Microsoft® Windows® 95 OSR2 (FAT16) • Online User's Guide • ThinkPad Features Program • SystemSoft CardWorks™ • Diskette Factory and Utilities • Puma TranXit™ • IBM Anti-Virus • IBM Global Network with Netscape web browser • Intelliquest Registration Mailer • Artisoft ConfigSafe • Intel® LANDesk® Client Manager • PointCast (with ThinkPad channel) • Ergonomics • Lotus® SmartSuite 97 • NetFinity for Windows 95 (license only) ⇨ Recovery CD-ROM with boot diskette ⇨ Windows 95 CD-ROM (no installation)
Disk - size / ms	<b>2.1GB</b> <sup>4</sup> / 14ms / SMART	
Disk controller	EIDE / busmaster / PCI 2.1 / Ultra DMA/33 or PIO Mode 4 / supports 1 int disk	
Display - size and type	<b>12.1" HPA SVGA color</b> (dual scan) 640x480 or 800x600	
Display - technology	<b>12.1" TFT SVGA color</b> (active matrix) 640x480 or 800x600	
Graphics - controller	<b>NeoMagic™ MagicGraph128XD™</b> (NM2160A) / 128-bit SVGA accelerator	
Graph - arch/data path	2MB / iDRAM™ (embedded) / PCI 2.1 / Zoomed Video support	
Graphics - features	Interpolation in X and Y axis / color space conversion	
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt	
Graphics - external	External SVGA to 1024x768 with 65,536 colors (or 800x600 with 16.7 mil)	
Memory - std / max	<b>32MB</b> std / 96MB max	
Memory - features	60ns / non-parity / 3.3 volt / EDO	
Memory - upgrade	1 socket for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64MB	
Keyboard / # of keys	<b>Full size</b> alp/num / 85 keys (6 Fn key functions)	
Keyboard slope	<b>Large palm rest</b> / keyboard remains flat (no sloop) / opt P Replicator adds slope	
Pointing device	TrackPoint® III / no drag lock keys	
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)	
Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches); 297 mm x 222 mm x 31 mm	
Weight <sup>2</sup>	4.17 pounds (1.89 kg)   4.14 pounds (1.88 kg)	
Battery - type / life <sup>10</sup>	Lithium Ion / intelligent / 3.5 hours	
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs	
Architecture	PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) / ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)	
Docking Station	<b>Intel 430TX PCiset / PIIX4</b> (EIDE, USB, PCI to ISA bridge) / <b>TI1250A</b>	
Port replicator	ThinkPad 560 Port Replicator / ThinkPad Enhanced Port Replicator	
PC Card Std slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32-bit PCI</b> / Zoomed Video	
Serial / parallel ports	PCMCIA 2.1 compatible / Texas Instruments® TI1250A controller	
USB port	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	<b>One USB port</b> Universal AC Adapter; 3 prong (56 watts) with barrel connector / APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS	
Video in/out	None	
MPEG decoder	None (software support for MPEG-1 in Windows 95)	
Data/fax modem	None	
Audio support	<b>16-bit audio chip / FM synthesis / CS4237B / SRS 3D audio</b> (if use ext speakers) Internal mono speaker / .5 watt / rotary volume control / internal microphone	
Jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / not full duplex speakers/mic	
Infrared ports	<b>Infrared port (left side) / IrDA 1.1 compatible / up to 4Mbps</b>	
Security	Power-on password / hard disk password / security keyhole on back / personalization screen at startup	
Limited warranty <sup>11</sup>	<b>1 year</b> - ThinkPad EasyServ (door-to-door depot repair service) or carry-in	
Service options <sup>15</sup>	On-Site, M-F, 8-5, next bus day (71 cities) / warranty extension to 3 or 5 years	
<b>ThinkPad Enhanced Port Replicator</b> provides cable management, additional I/O ports, and CardBus PC Card slots. Features include: - Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator Connectors: - USB - Serial (RS-232, 9 pin), Parallel (25 pin) - External display, Keyboard, Mouse - Audio in and out (3.5 mm) - Joystick/MIDI port (15 pin) - not on system - External diskette drive connector - Power connector Features of the PC Card slots: - Two Type III slots (side by side) - PC Card Standard 95 compliant - CardBus compliant (PCI 2.1 / 32-bit) - 8/16-bit PC Card support (no Zoomed Video)		<b>OPTIONS</b> - 2.1GB disk, 14ms 45H8783 - 4.0GB disk, 13ms 02K0501 - 6.4GB disk, 13ms, Ultra DMA/33 02K0518 - ThinkPad 560 Port Replicator 46H4209 - ThinkPad Enhanced Port Replicator 11J8997 - ThinkPad 560 Li-Ion Battery Pack 46H4206 - 56 watt AC Adapter (barrel; 3 prong) 83H6739 - 8MB SO DIMM 3.3v NP EDO 64-bit 92G7340 - 16MB SO DIMM 3.3v NP EDO 64-bit 92G7341 - 16MB SO DIMM NP EDO 64-bit (new) 01K1124 - 32MB SO DIMM 3.3v NP EDO 64-bit 92G7342 - 64MB SO DIMM 3.3v NP EDO 64-bit 76H0268 - 20X-8X Portable CD-ROM 1969010 - 20X-8X Portable Stereo CD-ROM 1969011 - PCMCIA 33.6Kbps modem 25H6420 - PCMCIA 33.6 modem w/ XJACK 55H6759 - 56K PC Card Modem Kit 04K0052 - 56K PC Card Modem/Cellular Capable 02K4196
<b>ThinkPad EasyServ™:</b> customer calls 1-800-772-2227, courier service picks up ThinkPad in most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).		<b>FEATURES</b> <b>Wired for Management 1.1a</b> <b>DMI 2.0 compliant</b> <b>PC 97 compliant</b> Setup Guide, User's Guide, Up and Running Plug and Play 1.0a Standby, suspend, safe suspend, and hibernation modes ENERGY STAR compliant Personalized nameplate indentation <b>International Warranty Service<sup>14</sup></b> <b>IBM SystemXtra™</b> <b>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</b> <b>IBM and dealer warranty/service</b>

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 (560X) © IBM Corp. October 1998

# IBM ThinkPad® 560Z - withdrawn

IBM® ThinkPad®		WINDOWS 98 PRELOAD <sup>16</sup>	
Processor	Intel® Mobile Pentium® II 233 or 300MHz <sup>1</sup> / 66MHz system bus	<ul style="list-style-type: none"> <li>- Microsoft® Windows® 98</li> <li>• ThinkPad Utilities</li> <li>• Online User's Guide</li> <li>• ThinkPad Configuration Program</li> <li>• ThinkPad on the Net</li> <li>• IBM Update Connector</li> <li>• RingCentral Fax</li> <li>• Ergonomics</li> <li>• IBM Product Registration</li> <li>• Puma IntelliSync 97 (infrared)</li> <li>• IBM Global Network Dialer</li> <li>• Netscape Navigator web browser</li> <li>• Lotus® SmartSuite 97</li> <li>• Artisoft ConfigSafe</li> <li>• Norton AntiVirus</li> <li>◇ Customization Center CD-ROM</li> <li>◇ Product Recovery CD-ROM (with boot diskette)</li> </ul>	
Processor features	No processor upgrade / processor on Mini-Cartridge		
L2 cache	512KB / synchronous pipelined burst / ECC / half speed		
Diskette drive	External 3.5" 1.44MB (connects to left side) / includes case with a cable		
External FDD port	External FDD port (works with standard external diskette; no kit reqd)		
CD-ROM drive	None (CD-ROM drive as option via PCMCIA or parallel port)		
Type - model	<b>2640-90U</b>   <b>2640-91U</b>   <b>2640-B0U</b>   <b>2640-B1U</b>		
Preload (see side)	<b>Windows 98</b>   <b>NT 4.0</b>   <b>Windows 98</b>   <b>NT 4.0</b>		
Processor	<b>Pentium II 233MHz</b>   <b>Pentium II 300MHz</b>		
Disk - size / ms	<b>4.0GB<sup>4</sup></b> / 13ms / SMART <sup>29</sup>   <b>6.4GB</b> / 13ms / SMART		
Disk controller	Disk can be removed and upgraded by customer / Ultra DMA/33 or PIO Mode 4 EIDE / busmaster / PCI 2.1 / supports one internal disk		
Avail / withdrawn date	September 1998 / 90U and 91U withdrawn March 1999; others on June 1999		
Display - size and type	<b>12.1" TFT SVGA color</b> (active matrix) All models: 640x480 or 800x600 16.7 million simultaneous colors 100 to 1 contrast ratio	- C: drive is FAT16 of 2GB - D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space	
Display - technology			
Graphics - controller	<b>NeoMagic™ MagicGraph128XD™</b> (NM2160) / 128-bit SVGA accelerator		
Graph - arch/data path	<b>2MB</b> / iDRAM™ (embedded) / PCI 2.1 / Zoomed Video support		
Graphics - features	Interpolation in X and Y axis / color space conversion		
Graphics - features	Simultaneous LCD and CRT / 135 degree tilt		
Graphics - external	External SVGA to 1024x768 with 65,536 colors (or 800x600 with 16.7 mil)		
Memory - std / max	<b>32MB</b> std / 96MB or 160MB* max   <b>64MB</b> std / 128MB or 192MB* max		
Memory - features	60ns / non-parity / 3.3 volt / EDO		
Memory - upgrade	1 socket for one JEDEC 144-pin EDO SO-DIMM of 16, 32, or 64MB		
Keyboard / # of keys	<b>Full size</b> alp/num keys / 85 keys (6 Fn key functions)		
Keyboard slope	<b>Large palm rest</b> / keyboard remains flat (no sloop) / opt P Replicator adds slope		
Pointing device	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace		
Palm rest	Integrated palm rest / external keyboard support (with optional cable 54G0441)		
Dimensions	11.7" x 8.7" x 1.22" (124 cubic inches); 297mm x 222mm x 31mm		
Weight <sup>2</sup> with battery	<b>90U:</b> 4.1 lbs (1.88 kg)   <b>B0U/B1U:</b> 4.2 lbs (1.92 kg)		
Battery - type / life <sup>10</sup>	Lithium Ion / intelligent / 3.0 hours		
Charge time - on / off	2.5 to 3.5 hrs / 1.5 hrs		
Architecture	<b>Intel 440BX PCiset</b> / Intel 82371EB <b>PIIX4E</b> (EIDE, ISA Bridge, USB) / PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, PCMCIA, USB) / <b>TI PCI1250A</b> ISA (audio, diskette, serial, parallel, infrared) / NS PC97338 (FDC, IR, I/O)		
Docking Station	None		
Port replicator	Port Replicator with Advanced EtherJet / ThinkPad 560 Port Replicator		
PC Card Std slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32-bit PCI</b> / Zoomed Video PCMCIA 2.1 compatible / Texas Instruments® TI1250A controller		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
USB port	<b>One USB port</b>		
Other features	Universal AC Adapter; 3 prong (56 watts) with barrel connector / APM-aware BIOS / APM 1.2 / Selectable boot / IBM BIOS		
Video in/out	None		
MPEG decoder	None (software support for MPEG-1 in Windows 98)		
Data/fax modem	<b>56Kbps<sup>23</sup> PC Card modem</b> / x2 / cellular capable / XJACK / IBM pn 02K4196		
Audio support	<b>16-bit audio chip / FM synthesis / CS4237B / SRS 3D audio</b> (if use ext speakers) Internal mono speaker / .5 watt / keyboard volume control / internal microphone		
Jacks	Input jack (3.5 mm) / stereo output jack (3.5 mm) / full duplex speakers/mic		
Infrared ports	<b>Infrared port (left side) / IrDA 1.1 compatible / up to 4Mbps</b>		
Security	Power-on password / hard disk password / security keyhole on left side / personalization screen at startup		
Limited warranty <sup>11</sup>	<b>1 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> (door-to-door depot repair service)		
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date		
<b>ThinkPad Port Replicator with Advanced EtherJet Feature.</b> Features include:	<b>OPTIONS</b>	<b>FEATURES</b>	
- 10/100 ethernet (Intel 82558, Wake on LAN™)	- 6.4GB disk, 13ms, Ultra DMA/33	<b>Wired for Management 1.1a compliant</b>	
- Dual IBM lock slots to secure the ThinkPad, PC Cards, and Port Replicator	- ThinkPad 560 Port Replicator	<b>DMI 2.0 compliant</b>	
Connectors:	- Port Replicator w/ Advanced EtherJet™	<b>PC 97 compliant</b>	
- USB, serial (RS-232, 9 pin), parallel (25 pin), external display, keyboard, mouse	- ThinkPad 560 Li-Ion Battery Pack	<b>ACPI ready</b> (APM enabled)	
- Audio in and out (3.5 mm)	- 56 watt AC Adapter (barrel; 3 prong)	Setup Guide, User's Guide, Windows 98 or NT Manual	
- Joystick/MIDI port (15 pin) - not on system	- 16MB SO DIMM 3.3v NP EDO 64-bit	Plug and Play 1.0a	
- External diskette drive connector	- 32MB SO DIMM 3.3v NP EDO 64-bit	Standby, suspend, safe suspend, and hibernation modes	
- Power connector	- 64MB SO DIMM 3.3v NP EDO 64-bit	ENERGY STAR compliant	
Features of the PC Card slots:	- 20X-8X Portable Stereo CD-ROM	Personalized nameplate indentation	
- Two Type III slots (side by side)	- 56K PC Card Modem/Cellular Capable	International Warranty Service <sup>14</sup>	
- PC Card Standard 95 compliant	- V.90 PC Card Modem with XJACK <sup>24</sup>	IBM SystemXtra®. <sup>35</sup>	
- CardBus compliant (PCI 2.1 / 32-bit)	- ThinkPad Proven™ solutions <sup>12</sup> (visit <a href="http://www.ibm.com/pc/us/thinkpad/proven">www.ibm.com/pc/us/thinkpad/proven</a> )	24 hour / 7 day telephone <sup>30</sup> , bulletin board, fax, electronic, and Internet ( <a href="http://www.ibm.com/pc/us">www.ibm.com/pc/us</a> ) support	
- PCMCIA 2.1 support (no Zoomed Video)			
- TI 1250A controller			

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\* Maximum memory capacity with 128MB SO DIMM from ThinkPad Proven vendor

No warranties are expressed or implied in this summary

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# IBM ThinkPad® 570 - withdrawn

IBM® ThinkPad®		WINDOWS 98 PRELOAD <sup>16</sup>	
Processor	Intel® Mobile Pentium® II 300PE, 333MHz, or 366MHz <sup>1</sup> / 66MHz system bus	<ul style="list-style-type: none"> <li>Microsoft® Windows® 98</li> <li>ThinkPad Utilities</li> <li>ThinkPad Configuration Program</li> <li>ThinkPad on the Net</li> <li>IBM Update Connector</li> <li>Online User's Guide</li> <li>Ergonomics</li> <li>Intelliquest Registration</li> <li>RingCentral</li> <li>Puma Intellisync 97 (on CD)</li> <li>IBM Global Network Dialer</li> <li>Netscape Communicator</li> <li>ConfigSafe®</li> <li>Norton AntiVirus™ (OEM Version)</li> <li>PC-Doctor</li> <li>Universal Management Agent (on CD)</li> <li>Norton Mobile Essentials</li> <li>Lotus® SmartSuite® Millennium<sup>20</sup></li> <li>Access ThinkPad</li> <li>Software Selections CD-ROM</li> <li>Recovery CD-ROM (Windows 98)</li> <li>Recovery CD-ROM (Windows 95)<sup>7</sup></li> </ul>	
Processor features	No upgrade / processor in Ball Grid Array (BGA) / North and South Bridge cores		
L2 cache	256KB / onboard (full speed) / sync pipelined burst / write-back / ECC		
Diskette drive	External 3.5" 1.44MB / use externally with std cable or in UltraBase		
CD-ROM	Option: CD-ROM / 24X-10X <sup>5</sup> speed / bootable / removable from UltraBase		
DVD-ROM	Option: DVD-ROM / bootable / removable from UltraBase		
Type - model	≈ 2644-2AU    ≈ 2644-1AU    ≈ 2644-1BU    2644-3AU    2644-3BU		
Processor	PII 300PE    PII 333MHz    PII 333MHz    PII 366MHz    PII 366MHz		
Display (diagonal)	12.1" TFT    13.3" TFT    13.3" TFT    13.3" TFT    13.3" TFT		
Preload (see side)	Windows 98    Windows 98    NT 4.0    Windows 98    NT 4.0		
Disk (removable)	4.0GB <sup>4</sup> / 13/14ms PIO4 or Ultra DMA/33 / 9.5mm		
Avail / withdr date	April 1999 / 2AU withdrawn Dec 99; 1AU, 1BU on Mar 2000; 3AU, 3BU on July 00		
Memory (std / max)	64MB std / 192MB max SDRAM / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base One 144-pin socket / 64MB on planar / 1 socket available		
Display	12.1" (307.3mm) TFT color / Active Mat SVGA / 800x600 / 100 to 1 contrast ratio	<b>WINDOWS NT PRELOAD<sup>16</sup></b> <ul style="list-style-type: none"> <li>Microsoft Windows NT® 4.0</li> <li>Service Pack 4a</li> <li>ThinkPad Utilities</li> <li>ThinkPad Configuration Program</li> <li>IBM Update Connector</li> <li>Online User's Guide</li> <li>Ergonomics</li> <li>Intelliquest Registration</li> <li>RingCentral (on CD)</li> <li>Puma Intellisync 97 (on CD)</li> <li>IBM Global Network Dialer (on CD)</li> <li>Netscape Communicator (on CD)</li> <li>ConfigSafe</li> <li>Norton AntiVirus (OEM Version)</li> <li>PC-Doctor</li> <li>Universal Management Agent (on CD)</li> <li>Access ThinkPad (on CD)</li> <li>SystemSoft CardWizard (on CD)</li> <li>Software Selections CD-ROM</li> <li>Recovery CD-ROM (Windows NT)</li> <li>Lotus SmartSuite Millennium<sup>20</sup> CD</li> </ul>	
Display - features	16.7 million simultaneous colors / 30ms refresh rate / 150 degree tilt / 125 nits (AC), 70 nits (battery)		
Graphics - controller	NeoMagic™ MagicMedia256AV™ (NM2200) / Accelerated Graphics Port 2.5MB / SGRAM (embedded) / 128-bit engine, 256-bit memory interface		
Graphics - features	AGP 1X / no sideband signaling / motion compensation / DDC2B / simultaneous LCD and CRT <sup>26</sup> / multiple-monitor support <sup>26</sup> for Windows 98		
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART <sup>29</sup> / upgradeable		
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt UltraBase		
Keyboard / Fn keys	Full size 85-key keyboard / 10 Fn key functions / integrated palm rest		
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope		
Pointing device	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps		
Dimensions <sup>36</sup>	2AU: 11.8 x 9.4 x 1.0" Others: 11.8 x 9.4 x 1.1" (122 cubic inches)		
Weight <sup>2</sup>	2AU: 3.9 lbs (1.78 kg) with battery Others: 4.0 lbs (1.83 kg) with battery		
Weight w/ UltraBase	with CD-ROM and diskette drives: 2AU: 6.8 lbs (3.07 kg) Others: 6.9 lbs (3.12 kg)		
Case material	Top: carbon-fiber reinforced plastic; Bottom: glass-fiber reinforced plastic		
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch		
Battery - life <sup>10</sup>	1xx: 3.3 hrs; 2xx: 3.5 hrs; 3xx: 3.0 hrs / supports 2nd battery in UltraBase		
Charge time - on/off	3 to 4 hrs / 2.5 to 3 hrs / no non-disruptive battery exchange		
Architecture	Intel 440BX AGPset / Intel 82371EB PIIX4E (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP for graphics / ADM1021 digital thermometer / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, modem, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext expansion)		
Port replicator (opt)	UltraBase / the following are supported by attachment to UltraBase or Direct Dock Adapter: ThinkPad Port Repl with Advanced EtherJet and Port Replicator		
Docking Station	None (UltraBase has two bays)		
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video		
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	Ultraslim 56 watt AC Adapter, barrel, 3 prong / IBM BIOS Setup Utility (hit F1 at boot)		
Video (TV) out	None		
MPEG-2/DVD	Software supported DVD movie playback (via UltraBase and UltraslimBay DVD)		
Data/fax modem	56K <sup>37</sup> / V.90 / 14.4K fax / RJ-11 port / voice-capable / integrated Lucent® 1646 / international programmable DAA / Mini PCI Type IIIb		
Audio support	CS4280 / PCI / FM synthesis / 16-bit playback and record / CS4297 (AC97) / full duplex / int speaker (bottom) / .5 watt / Fn+PgUp and PgDn (volume) / int mic		
Jacks (3.5mm)	Microphone jack (stereo) / headphone jack (stereo) / line-in jack (stereo)		
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps		
Security	Power-on password / hard disk password / supervisor password / security keyhole / Phillips-head screw on base for memory / optional Allen screw for disk		
Limited warranty <sup>11</sup>	3 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)		
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date		
	- 32MB SO DIMM 3.3v NP SDRAM    76H0294	- 6.0GB disk, 12ms, ATA-66    05K9199	
	- 64MB SO DIMM 3.3v NP SDRAM    20L0241	- 6.4GB disk, 13ms, Ultra DMA/33    02K0518	
	- 128MB SO DIMM 3.3v NP SDRAM    01K1150	- 10.0GB disk, 12ms, Ultra DMA/33    36L9293	
<b>Color depth</b>	<b>LCD</b>	<b>External Monitor</b>	
<b>Resolution</b>	<b>TFT</b>	<b>60Hz 70Hz 75Hz 85Hz</b>	
640x480	16M	16M -- 16M 16M	
800x600	16M	16M -- 16M 16M	
1024x768*	16M	16M 16M 16M 16M	
1280x1024**	256	256 -- --	
* Virtual screen mode on 12.1" TFT screen			
** Virtual screen mode on both 12.1" and 13.3"			
All models:			
- C: drive is FAT16 of 2GB			
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space			
		- Direct Dock Adapter (from CompuLock)    00N4650	
		- Port Replicator    46H4209	
		- Port Replicator w/ Advanced EtherJet    05K4872	
		- Ultraslim 56 watt AC Adapter (3 prong)    02K6545	
		- UltraslimBay HDD adapter (for 2nd disk)    05K5336	
		- SuperDisk LS-120 (UltraslimBay)    20L1929	
		- 24X-10X <sup>5</sup> CD-ROM (UltraslimBay)    05K9122	
		- 2X <sup>5</sup> DVD Drive (UltraslimBay)    05K8890	
		- 6X-2X <sup>5</sup> DVD Drive (UltraslimBay)    05K9169	
		- Zip 100MB Drive 570/600(UltraslimBay)    37L1507	
		- ThinkPad 570 Li-Ion Battery    02K6546	
		PC 98 and DMI 2.0 compliant	
		DMI instrumentation (thermal monitoring)	
		ACPI ready (APM enabled)	
		Wired for Management 1.1a compliant	
		Wake on LAN® support <sup>28</sup>	
		Setup Guide, User's Reference, Quick Reference and Service Info Card, Options catalog, Windows manual	
		Plug and Play 1.0a	
		Standby, suspend, safe suspend, and hibernation modes	
		ENERGY STAR compliant	
		Personalized Web-based support	
		International Warranty Service <sup>14</sup>	
		IBM SystemXtra® <sup>35</sup>	
		24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support	

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# IBM ThinkPad® 570E - withdrawn

<b>IBM® ThinkPad®</b>		<b>WINDOWS 98 PRELOAD<sup>16</sup></b>																																							
Processor	<b>Intel® Mobile Pentium® III 450 or 500MHz<sup>1</sup> with 100MHz system bus</b>																																								
Processor features	No upgrade / processor in Ball Grid Array (BGA) / North and South Bridge cores																																								
L2 cache	<b>256KB / onboard (at processor speed)</b> / sync pipelined burst / write-back / ECC																																								
Diskette drive	External 3.5" 1.44MB / use externally with std cable or in UltraBase																																								
CD-ROM	Option: <b>CD-ROM / 24X-10X<sup>5</sup> speed</b> / bootable / removable from UltraBase																																								
DVD-ROM	Option: <b>6X-2X<sup>5</sup> DVD-ROM</b> / bootable / removable from UltraBase																																								
Type - model	< 2644-5AU	< 2644-5BU	< 2644-6AU	< 2644-6BU																																					
Processor	<b>Pentium III 450</b>	<b>Pentium III 450</b>	<b>Pentium III 500</b>	<b>Pentium III 500</b>																																					
Preload (see side)	<b>Windows 98 SE</b>	<b>Windows 2000</b>	<b>Windows 98 SE</b>	<b>Windows 2000</b>																																					
Disk (removable)	<b>6.0GB<sup>4</sup></b>	<b>6.0GB</b>	<b>12.0GB</b>	<b>12.0GB</b>																																					
Avail / withdrawn date	February 2000 / 5AU and 5BU on July 2000, 6AU and 6BU on February 2001																																								
Memory (std / max)	<b>64MB</b> std / 320MB max <b>SDRAM</b> / non-parity / 100MHz / 3.3v / sockets accessed by removing screw on base One 144-pin socket / 64MB on planar / 1 socket available																																								
Display	<b>13.3"</b> (337.8mm) <b>TFT color / Active Matrix</b> <b>XGA / 1024x768</b> / 150 to 1 contrast ratio																																								
Display - features	16.7 million simultaneous colors / 30ms refresh rate / 150 degree tilt / 125 nits (AC), 70 nits (battery)																																								
Graphics - controller	<b>NeoMagic™ MagicMedia256AV™</b> (NM2200) / <b>Accelerated Graphics Port 2.5MB</b> / SGRAM (embedded) / 128-bit engine, 256-bit memory interface																																								
Graphics - features	AGP 1X / no sideband signaling / <b>motion compensation</b> / DDC2B / simultaneous LCD and CRT <sup>26</sup> / multiple-monitor support <sup>26</sup> for Windows 98																																								
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART <sup>29</sup> / upgradeable																																								
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4M / DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt UltraBase																																								
Keyboard / Fn keys	Full size 85-key keyboard / 10 Fn key functions / integrated palm rest																																								
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope																																								
Pointing device	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps																																								
Dimensions <sup>36</sup>	11.8 x 9.4 x 1.1" (122 cubic inches)																																								
Weight <sup>2</sup>	3.97 lbs (1.80 kg) with battery																																								
Weight	with optional UltraBase CD-ROM and diskette drives: 6.9 lbs (3.12 kg)																																								
Case material	<i>Top:</i> carbon-fiber reinforced plastic; <i>Bottom:</i> glass-fiber reinforced plastic																																								
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch																																								
Battery - life <sup>10</sup>	3.0 hrs / supports 2nd battery in UltraBase																																								
Charge time - on/off	3 to 4 hrs / 2.5 to 3 hrs / no non-disruptive battery exchange																																								
Architecture	<b>Intel 440BX AGPset</b> / Intel 82371EB <b>PIIX4M</b> (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP for graphics / ADM1021 digital thermometer / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, modem, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext expansion)																																								
Port replicator (opt)	<b>UltraBase</b> / the following are supported by attachment to UltraBase or Direct Dock Adapter: ThinkPad Port Repl with Advanced EtherJet and Port Replicator																																								
Docking Station	None (UltraBase has two bays)																																								
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video																																								
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)																																								
Other features	Ultraslim 56 watt AC Adapter, barrel, 3 prong / IBM BIOS Setup Utility (hit F1 at boot)																																								
Video (TV) out	None																																								
MPEG-2/DVD	Software supported DVD movie playback (via UltraBase and UltraslimBay DVD)																																								
Data/fax modem	<b>56K<sup>22</sup></b> / V.90 / 14.4K fax / RJ-11 port / voice-capable / integrated Lucent® 1646 / international programmable DAA / Mini PCI Type IIIb																																								
Audio support	CS4280 / PCI / FM synthesis / 16-bit playback and record / CS4297 (AC97) / full duplex / int speaker (bottom) / .5 watt / Fn+PgUp and PgDn (volume) / int mic																																								
Jacks (3.5mm)	Microphone jack (stereo) / headphone jack (stereo) / line-in jack (stereo)																																								
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps																																								
Security	Power-on password / hard disk password / supervisor passwrd / security keyhole / Phillips-head screw on base for memory / optional Allen screw for disk																																								
Limited warranty <sup>11</sup>	<b>3 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)																																								
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date																																								
<ul style="list-style-type: none"> <li>- 6.0GB disk, 12ms, ATA-66      05K9199</li> <li>- 12.0GB disk, 12ms, ATA-66    05K9200</li> <li>- 18.0GB disk (UltraBase only) 37L2993</li> </ul>		<ul style="list-style-type: none"> <li>- 32MB SO DIMM 100MHz NP SDRAM    20L0253</li> <li>- 64MB SO DIMM 100MHz NP SDRAM    20L0254</li> <li>- 128MB SO DIMM 100MHzNP SDRAM    20L0255</li> <li>- 256MB SO DIMM 100MHzNP SDRAM    33L3069</li> </ul>		<ul style="list-style-type: none"> <li>- <b>ThinkPad 570 UltraBase</b>            <b>05K5840</b></li> <li>- Direct Dock Adapter (from CompuLock) 00N4650</li> <li>- Port Replicator                        46H4209</li> <li>- Port Replicator w/ Advanced EtherJet 05K4872</li> <li>- Ultraslim 56 watt AC Adapter (3 prong) 02K6545</li> <li>- UltraslimBay HDD adapter (for 2nd disk) 05K5336</li> <li>- SuperDisk LS-120 (UltraslimBay)    20L1929</li> <li>- 24X-10X<sup>5</sup> CD-ROM (UltraslimBay)    05K9122</li> <li>- 6X-2X<sup>5</sup> DVD Drive (UltraslimBay)    05K9169</li> <li>- Zip 100MB Drive 570/600(UltraslimBay) 37L1507</li> <li>- ThinkPad 570 Li-Ion Battery            02K6546</li> <li>- ThinkPad 570 Battery Charger        02K6570</li> <li>- IBM 340MB microdrive                00N8073</li> </ul>																																					
<table border="1"> <thead> <tr> <th>Color depth</th> <th>LCD</th> <th colspan="4">External Monitor</th> </tr> <tr> <th>Resolution</th> <th>TFT</th> <th>60Hz</th> <th>70Hz</th> <th>75Hz</th> <th>85Hz</th> </tr> </thead> <tbody> <tr> <td>640x480</td> <td>16M</td> <td>16M</td> <td>--</td> <td>16M</td> <td>16M</td> </tr> <tr> <td>800x600</td> <td>16M</td> <td>16M</td> <td>--</td> <td>16M</td> <td>16M</td> </tr> <tr> <td>1024x768</td> <td>16M</td> <td>16M</td> <td>16M</td> <td>16M</td> <td>16M</td> </tr> <tr> <td>1280x1024*</td> <td>256</td> <td>256</td> <td>--</td> <td>--</td> <td>--</td> </tr> </tbody> </table>		Color depth	LCD	External Monitor				Resolution	TFT	60Hz	70Hz	75Hz	85Hz	640x480	16M	16M	--	16M	16M	800x600	16M	16M	--	16M	16M	1024x768	16M	16M	16M	16M	16M	1280x1024*	256	256	--	--	--	<ul style="list-style-type: none"> <li>- <b>ThinkPad 570 UltraBase</b></li> <li>- Direct Dock Adapter (from CompuLock)</li> <li>- Port Replicator</li> <li>- Port Replicator w/ Advanced EtherJet</li> <li>- Ultraslim 56 watt AC Adapter (3 prong)</li> <li>- UltraslimBay HDD adapter (for 2nd disk)</li> <li>- SuperDisk LS-120 (UltraslimBay)</li> <li>- 24X-10X<sup>5</sup> CD-ROM (UltraslimBay)</li> <li>- 6X-2X<sup>5</sup> DVD Drive (UltraslimBay)</li> <li>- Zip 100MB Drive 570/600(UltraslimBay)</li> <li>- ThinkPad 570 Li-Ion Battery</li> <li>- ThinkPad 570 Battery Charger</li> <li>- IBM 340MB microdrive</li> </ul>			
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Resolution	TFT	60Hz	70Hz	75Hz	85Hz																																				
640x480	16M	16M	--	16M	16M																																				
800x600	16M	16M	--	16M	16M																																				
1024x768	16M	16M	16M	16M	16M																																				
1280x1024*	256	256	--	--	--																																				
<ul style="list-style-type: none"> <li>Windows 98 models:</li> <li>- C: drive is FAT16 of 2GB</li> <li>- D: drive is FAT32 of remaining space</li> <li>Windows 2000 models:</li> <li>- C: drive is FAT32 of entire drive</li> </ul>		<ul style="list-style-type: none"> <li>PC 98 and DMI 2.0 compliant</li> <li>DMI instrumentation</li> <li>ACPI ready (APM enabled)</li> <li>Wired for Management 1.1a compliant</li> <li>Wake on LAN<sup>28</sup> support<sup>28</sup></li> <li>Setup Guide, User's Reference, Quick Reference and Service Info Card, Options catalog, Windows manual</li> <li>Plug and Play 1.0a</li> <li>Standby, suspend, safe suspend, and hibernation modes</li> <li>ENERGY STAR compliant</li> <li>Personalized Web-based support</li> <li>International Warranty Service<sup>14</sup></li> <li>IBM SystemXtra<sup>35</sup></li> <li>24 hour / 7 day<sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</li> </ul>																																							

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# IBM ThinkPad® 600 - withdrawn

<b>IBM® ThinkPad®</b>		The right bay (UltraslimBay) has LED on release latch to provide status; supports warm swapping:	
Processor type/path	<b>Intel® Pentium® MMX™ 233/66MHz<sup>1</sup> or Pentium II 233/66 or 266/66MHz</b>		
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module		
L2 cache	<b>512KB</b> / sync pipelined burst (66MHz for Pentium / ECC and half speed for Pent II)		
Diskette (removable)	3.5" 1.44MB / use in UltraslimBay (CD-ROM models include external diskette enclosure)		
External FDD port	External diskette port on right side (can use simultaneously with internal CD-ROM)		
CD-ROM (removable)	<i>Standard or option:</i> <b>5.25" CD-ROM / 24X-10X<sup>5</sup> speed</b> / bootable / warm swap EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraslimBay		
DVD <sup>19</sup> (removable)	<i>Option:</i> 2X <sup>5</sup> DVD-ROM drive / removable UltraslimBay option / warm swap		
SuperDisk (LS-120)	<i>Option:</i> Removable UltraslimBay option / supports 1.44MB and 120MB diskette		
Type - model	>= <b>2645-21U</b>	>= <b>2645-31U</b>	>= <b>2645-35U</b>
Processor	<b>Pent 233/66</b>	<b>Pent 233/66</b>	<b>Pent 233/66MHz</b>
Display (diagonal)	<b>13.0" HPA XGA</b>	<b>12.1 TFT SVGA</b>	<b>12.1 TFT SVGA</b>
Disk (removable)	<b>3.2GB<sup>4</sup> / PIO4</b>	<b>3.2GB / PIO4</b>	<b>3.2GB / PIO4</b>
Preload (see side)	<b>W95 OSR2.1</b>	<b>W95 OSR2.1</b>	<b>W95 OSR2.1</b>
CD-ROM	<b>CD-ROM std</b>	Optional	<b>CD-ROM std</b>
Modem	<b>56Kbps</b>	Opt PC Card	<b>56Kbps</b>
Avail / withdr date	Apr 98/Dec 98	Apr 98/Dec 98	Apr 98/Mar 99
Memory - std / max	<b>32MB</b> / 256MB <sup>3</sup> (TX max=256)		
Memory - upgrade	<b>SDRAM</b> / non-parity / 66MHz / 3.3v / 2 sockets available for two JEDEC 144-pin SDRAM SO-DIMMs / sockets accessed by removing screw on bottom		
Display	(See below) SVGA or XGA color / TFT or HPA / 180 degree tilt		
Graphics - controller	<b>NeoMagic™ MagicGraph128XD™</b> (NM2160B) / 128-bit SVGA accelerator		
Graphics - arch	<b>2MB</b> / iDRAM™ (embedded) / Zoomed Video support		
Graphics - features	Support for DirectX 5.0, DDC2B, color space conversion		
Graphics - external	External SVGA to 1024x768 with 65,536 colors (800x600 with 16.7 million colors)		
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART / upgradeable		
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4 DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter		
Keyboard / Fn keys	Full size alp/num keys / 9 Fn key functions / integrated palm rest		
Keyboard slope	Flat keyboard (does not lift up)		
Pointing device	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps		
Dimensions <sup>36</sup>	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm		
Weight <sup>2</sup>	4.72 lb (2.14 kg) to 5.62 lb (2.55 kg)		
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch		
Battery - life <sup>10</sup>	3.0 hrs / no non-disruptive battery exchange		
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		
Architecture	<b>Intel 430TX, PIIX4</b> for Pentium systems / <b>Intel 440BX, PIIX4</b> for Pent II systems PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, CardBus, USB, ext expansion) TI PCI1250A for CardBus / LM75 digital thermometer / PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext expansion)		
Port replicator	<b>SelectaBase 600</b> / PC Card Enabler <sup>17</sup> / PC Card Enabler with Advanced EtherJet <sup>17</sup>		
Docking Station	<b>SelectaDock III</b> / SelectaDock I and II		
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video		
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot		
Video in/out	None		
MPEG decoder	None (software support for MPEG-1 in Windows 95)		
Data/fax modem	<i>Some models:</i> 56Kbps (x2, upgradeable to v.90 <sup>9</sup> ) / 14.4Kbps fax / voice-capable / integrated Mwave® 3780i DSP / international programmable DAA / modem cable		
Audio support	CS4237B / 16-bit / <b>SRS 3D audio</b> / FM synthesis Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone		
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex		
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / <b>up to 4Mbps</b>		
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk		
Limited warranty <sup>11</sup>	<b>3 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)		
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date		
<b>13.0" (330.2 mm) HPA XGA color</b>	- 6.4GB disk, 13ms, Ultra DMA/33	02K0518	
- High Performance Addressing (Dual Scan)	- 10GB disk, 12ms, Ultra DMA/33	36L9293	
- 640x480 (16 million), 800x600 (16 million), or 1024x768 (65,536 simultaneous colors)	- <b>SelectaBase 600</b>	<b>12J2467</b>	
- 150ms; 40 to 1 contrast ratio	- PC Card Enabler <sup>17</sup>	83H6741	
- 70 nits (AC), 40 nits (battery)	- PC Card Enabler with EtherJet™ <sup>17</sup>	05K4820	
<b>12.1" (307.5 mm) TFT SVGA color</b>	- SelectaDock I	3547001	
- Active Matrix TFT	- SelectaDock II	3547002	
- 640x480 (16 million) or 800x600 (16 million simultaneous colors)	- <b>SelectaDock III</b> <sup>17</sup>	<b>3547003</b>	
- 75ms; 100 to 1 contrast ratio	- 56 watt AC Adapter (barrel; 3 prong)	83H6739	
- 110 nits (AC), 70 nits (battery)	- <b>24X-10X CD-ROM</b> (UltraslimBay; includes external diskette enclosure)	12J2471	
<b>13.3" (337.8 mm) TFT XGA color</b>	- <b>16MB SO DIMM 3.3v NP SDRAM</b>	<b>76H0293</b>	
- Active Matrix TFT	- <b>32MB SO DIMM 3.3v NP SDRAM</b>	<b>76H0294</b>	
- 640x480 (16 million), 800x600 (16 million), or 1024x768 (65,536 simultaneous colors)	- <b>64MB SO DIMM 3.3v NP SDRAM</b>	<b>76H0295</b>	
- 75ms; 100 to 1 contrast ratio	- ThinkPad 600 Li-Ion Battery	12J2464	
- 150 nits (AC), 90 nits (battery)	- UltraslimBay HDD adapter (for 2nd disk)	05K5336	
	- SuperDisk LS-120 (UltraslimBay)	20L1929	
	- 2X DVD Drive (UltraslimBay)	05K8890	
	- Zip 100MB UltraslimBay Drive	37L1504	
			<b>WINDOWS 95 PRELOAD<sup>16</sup></b>
			- Microsoft® Windows® 95 OSR2.1
			• Internet Explorer 4.01
			• Online User's Guide
			• ThinkPad Configuration Program
			• ThinkPad Customization Center
			• Puma IntelliSync 97 (infrared)
			• IBM AntiVirus 3.02 (not installed)
			• ConfigSafe 1.05 (must install)
			• IBM Global Network Dialer 4.15.6 with Netscape Navigator web browser
			• Intel LANdesk® Client Manager 3.1 (not installed)
			• PointCast with ThinkPad channel
			• Ergonomics
			• Netfinity 5.1 for Windows 95 (not installed)
			• Tivoli Light Client Framework (not installed)
			• Lotus® SmartSuite 97 <sup>20</sup>
			• Ring Zero RingCentral 4.10
			• Intel Video Phone 2.0.1
			• IBM Update Connector
			• IBM Product Registration
			◇ Customization CD-ROM (apps/drivers)
			◇ Recovery CD-ROM with boot diskette
			System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.
			ThinkPad 600 supported disks:
			- <b>3.2GB</b> 13ms read/14ms write 9.5 mm PIO Mode 4 or Ultra DMA/33
			- <b>4.0GB</b> 13ms read/14ms write 12.5 mm PIO Mode 4 or Ultra DMA/33
			- <b>6.4GB</b> 13ms read/14ms write 12.5 mm PIO Mode 4 or Ultra DMA/33
			<b>FEATURES</b>
			<b>PC 97 compliant</b>
			<b>DMI 2.0 compliant</b>
			DMI instrumentation (thermal monitoring)
			<b>ACPI 1.0 compliant</b>
			<b>Wired for LAN™ support 1.1a</b>
			<b>Wake on Management™ support<sup>28</sup></b>
			C: is 1.99GB, D: is up to 1.99GB, etc.
			Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 95 manual
			Plug and Play 1.0a
			Standby, suspend, safe suspend, and hibernation modes
			ENERGY STAR compliant
			International Warranty Service <sup>14</sup>
			<b>IBM SystemXtra™<sup>35</sup></b>
			24 hour / 7 day telephone <sup>30</sup> , bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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 = Announced August 18, 1998

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# IBM ThinkPad® 600 - September 1998 - withdrawn

IBM® ThinkPad®		WINDOWS 98 PRELOAD <sup>16</sup>	
Processor type/path	Intel® Mobile Pentium® II 300MHz <sup>1</sup> / 66MHz system bus	<ul style="list-style-type: none"> <li>Microsoft® Windows® 98</li> <li>Online User's Guide</li> <li>ThinkPad Utilities</li> <li>ThinkPad Configuration Program</li> <li>RingCentral</li> <li>Ergonomics</li> <li>IBM Product Registration</li> <li>Puma IntelliSync 97 (infrared)</li> <li>IBM Global Network Dialer</li> <li>Netscape Navigator web browser</li> <li>IBM Update Connector</li> <li>Artisoft ConfigSafe</li> <li>Norton AntiVirus</li> <li>Lotus® SmartSuite Millennium CD-ROM</li> <li>Customization Center CD-ROM</li> <li>Product Recovery CD-ROM (with boot diskette)</li> </ul>	
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module		
L2 cache	512KB / sync pipelined burst / ECC / 150MHz (half speed)		
Diskette (removable)	3.5" 1.44MB / use in UltralimBay / ships in external diskette enclosure with a cable		
External FDD port	External diskette port on right side (can use simultaneously with internal CD-ROM)		
CD-ROM (removable)	5.25" CD-ROM / 24X-10X <sup>5</sup> speed / bootable / warm swap		
DVD <sup>19</sup> (removable)	EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltralimBay Option: 2X <sup>5</sup> DVD-ROM drive / removable UltralimBay option / warm swap		
SuperDisk (LS-120)	Option: Removable UltralimBay option / supports 1.44MB and 120MB diskette		
Type - model	2645-45U   2645-85U   All models:		
Preload (see side)	Windows 98   Windows NT 4.0   - C: drive is FAT16 of 2GB		
Disk (removable)	5.1GB <sup>4</sup> / 12ms (read); 13ms (write) / upgradeable		
Avail / withdr date	September 1998 / June 1999		
Memory	64MB std / 288MB <sup>25</sup> maximum / SDRAM / non-parity / 66MHz / 3.3v Two 144-pin sockets / 32MB on planar and 1 socket used by 32MB SO-DIMM / 1 socket available / sockets accessed by removing screw on bottom	<p><b>WINDOWS NT PRELOAD<sup>16</sup></b></p> <ul style="list-style-type: none"> <li>Windows NT® Workstation 4.0</li> <li>Online User's Guide</li> <li>ThinkPad Utilities</li> <li>ThinkPad Configuration Program</li> <li>Puma IntelliSync 97 (infrared)</li> <li>ConfigSafe</li> <li>IBM Global Network Dialer</li> <li>Netscape Navigator web browser</li> <li>Norton AntiVirus (OEM Version)</li> <li>Ergonomics</li> <li>IBM Product Registration</li> <li>SystemSoft CardWizard</li> <li>Lotus SmartSuite Millennium CD-ROM</li> <li>Customization CD-ROM (apps/drivers)</li> <li>Product Recovery CD-ROM (with boot diskette)</li> </ul>	
Display	13.3" (337.8mm) TFT color / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480 or 800x600 (16.7 million colors), 1024x768 (65,536 colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt		
Graphics - controller	NeoMagic™ MagicGraph128XD™ (NM2160B) / 128-bit SVGA accelerator		
Graphics - arch	2MB / iDRAM™ (embedded) / Zoomed Video support		
Graphics - features	Support for DirectX 5.0, DDC2B, color space conversion		
Graphics - external	External SVGA to 1024x768 with 65,536 colors (800x600 with 16.7 million colors)		
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART / upgradeable		
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4 DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk inopt HDD adapter		
Keyboard / Fn keys	Full size alp/num keys / 9 Fn key functions / integrated palm rest		
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope		
Pointing device	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps		
Dimensions <sup>36</sup>	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm		
Weight <sup>2</sup>	5.01 lbs (2.27 kg) with travel cover and battery only		
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch		
Battery - life <sup>10</sup>	3.0 hrs / no non-disruptive battery exchange		
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		
Architecture	Intel 440BX and PIIX4 (EIDE, ISA Bridge, USB) PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, CardBus, USB, ext expansion) TI PCI1250A for CardBus / LM75 digital thermometer / PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext expansion)	<p>System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.</p> <p>ThinkPad 600 supported disks:</p> <ul style="list-style-type: none"> <li>- 3.2GB 13ms read/14ms write 9.5 mm PIO Mode 4 or Ultra DMA/33</li> <li>- 4.0GB 13ms read/14ms write 12.5 mm PIO Mode 4 or Ultra DMA/33</li> <li>- 5.1GB 12ms read/13ms write 12.5 mm PIO Mode 4 or Ultra DMA/33</li> <li>- 6.4GB 13ms read/14ms write 12.5 mm PIO Mode 4 or Ultra DMA/33</li> </ul>	
Port replicator	SelectaBase 600 / PC Card Enabler <sup>17</sup> / PC Card Enabler with Advanced EtherJet <sup>17</sup>		
Docking Station	SelectaDock III / SelectaDock I and II		
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video		
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot		
Video in/out	None		
MPEG decoder	None (software support for MPEG-1 in Windows 98)		
Data/fax modem	56K (x2, upgradeable to v.90 <sup>9</sup> ) / 14.4Kbps fax / telephony / voice-capable integrated Mwave® 3780i DSP / international programmable DAA / modem cable		
Audio support	CS4237B / 16-bit / SRS 3D audio / FM synthesis Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone		
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex		
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps		
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk		
Limited warranty <sup>11</sup>	3 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)		
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / service agreements up to 5 years from purchase date		
<ul style="list-style-type: none"> <li>- 56K PC Card Modem Kit 04K0052</li> <li>- 56K PC Card Modem/Cellular capab 02K4196</li> <li>- V.90 PC Card Modem with XJACK<sup>24</sup> 10L7393</li> <li>- EtherJet PC Card Combo 72H4534</li> <li>- IBM 10/100 EtherJet CardBus PC Cd 08L3147</li> <li>- UltralimBay HDD adapter (for 2nd disk) 05K5336</li> <li>- SuperDisk LS-120 (UltralimBay) 20L1929</li> <li>- 2X DVD Drive (UltralimBay) 05K8890</li> </ul>		<ul style="list-style-type: none"> <li>- 6.4GB disk, 13ms, Ultra DMA/33 02K0518</li> <li>- 10GB disk, 12ms, Ultra DMA/33 36L9293</li> <li>- SelectaBase 600 12J2467</li> <li>- PC Card Enabler<sup>17</sup> 83H6741</li> <li>- PC Card Enabler with EtherJet™<sup>17</sup> 05K4820</li> <li>- SelectaDock I 3547001</li> <li>- SelectaDock II 3547002</li> <li>- SelectaDock III<sup>17</sup> 3547003</li> <li>- 56 watt AC Adapter (barrel; 3 prong) 83H6739</li> <li>- 24X-10X CD-ROM (UltralimBay; includes external diskette enclosure) 12J2471</li> <li>- 16MB SO DIMM 3.3v NP SDRAM 76H0293</li> <li>- 32MB SO DIMM 3.3v NP SDRAM 76H0294</li> <li>- 64MB SO DIMM 3.3v NP SDRAM 76H0295</li> <li>- 64MB SO DIMM 3.3v NP SDRAM 20L0241</li> <li>- 128MB SO DIMM 3.3v NP SDRAM 01K1150</li> <li>- ThinkPad 600 Li-Ion Battery 12J2464</li> <li>- External Battery Charger 02K6499</li> <li>- Zip 100MB UltralimBay Drive 37L1504</li> </ul>	
<p>The right bay (UltralimBay) has LED on release latch to provide status; supports warm swapping:</p> <ul style="list-style-type: none"> <li>• std diskette and weight-saver bezel</li> <li>• std or optional CD-ROM</li> <li>• optional DVD drive<sup>19</sup></li> <li>• optional Zip 100MB drive (cold swap)</li> <li>• opt LS-120 SuperDisk drive (cold swap)</li> <li>• opt HDD adapter; second disk (cold swap)</li> <li>• optional ThinkPad Proven™ solutions<sup>12</sup></li> </ul>		<p><b>FEATURES</b></p> <p><b>Wired for Management 1.1a</b></p> <p><b>PC 97 compliant</b></p> <p><b>DMI 2.0 compliant</b></p> <p>DMI instrumentation (thermal monitoring)</p> <p><b>ACPI ready</b> (APM enabled)</p> <p><b>Wake on LAN® support<sup>28</sup></b></p> <p>C: is 1.99GB, D: is up to 1.99GB, etc.</p> <p>Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or NT manual</p> <p>Plug and Play 1.0a</p> <p>Standby, suspend, safe suspend, and hibernation modes</p> <p>ENERGY STAR compliant</p> <p>International Warranty Service<sup>14</sup></p> <p><b>IBM SystemXtra®<sup>35</sup></b></p> <p>24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</p>	

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# IBM ThinkPad® 600E - withdrawn

IBM® ThinkPad®		WINDOWS 98 PRELOAD <sup>16</sup>		
Processor	Intel® Mobile Pentium® II 300MHz <sup>1</sup> / 66MHz system bus			
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module			
L2 cache	<b>512KB</b> / sync pipelined burst / ECC / 150MHz (half speed)			
Diskette (removable)	3.5" 1.44MB / use in UltralimBay™ / ships in external diskette enclosure with a cable			
External FDD port	External diskette port on right side (can use simultaneously with internal DVD)			
CD-ROM (removable)	Option: <b>CD-ROM / 24X-10X<sup>5</sup> speed</b> / bootable / warm swap			
DVD (removable)	EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltralimBay			
SuperDisk (LS-120)	Std or option: 2X <sup>5</sup> DVD-ROM / removable from UltralimBay / warm swap			
Type - model	<b>2645-55U</b>	<b>2645-A5U (AAP)</b>	All models:	
Preload (see side)	<b>Windows 98</b>	<b>Blank</b> (no disk)	- C: drive is FAT16 of 2GB	
Disk (removable)	<b>6.4GB<sup>4</sup> / 13/14ms</b>	<b>None</b>	- D: drive is FAT32 of remaining space	
DVD-ROM drive	<b>DVD-ROM</b>	<b>None</b>		
Avail / withdr date	Nov 1998 / Mar 1999	Nov 1998 / Mar 1999		
Memory	<b>64MB</b> std / 288MB <sup>25</sup> max / <b>32MB</b> std / 288MB max			
	<b>SDRAM</b> / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base			
	Two 144-pin sockets / 32MB on planar / 1 or 2 sockets available / for 64MB model, one socket used by 32MB SO-DIMM			
Display	<b>13.3"</b> (337.8mm) <b>TFT color</b> / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480, 800x600, or 1024x768 (up to 16.7 million colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt			
Graphics - controller	<b>NeoMagic™ MagicMedia256AV™</b> (NM2200) / <b>Accelerated Graphics Port 2.5MB</b> / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP-1x			
Graphics - features	<b>Motion compensation</b> / color space conversion / interpolation in X and Y axis / Multiple-monitor support <sup>26</sup> for Windows 98 / DDC2B / Direct3D			
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors			
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART / upgradeable			
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E / DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter			
Keyboard / Fn keys	Full size alp/num keys / 10 Fn key functions / integrated palm rest			
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope			
Pointing device	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps			
Dimensions <sup>36</sup>	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm			
Weight <sup>2</sup>	4.99 lbs (2.27 kg) with travel cover and battery only			
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch			
Battery - life <sup>10</sup>	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltralimBay			
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs			
Architecture	<b>Intel 440BX AGPset</b> / Intel 82371EB <b>PIIX4E</b> (EIDE, ISA Bridge, USB) / <b>TI® PCI1251</b> for CardBus / AGP for graphics / LM75 digital thermometer / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp) / <b>SelectaBase 600</b> / PC Card Enabler <sup>17</sup> / PC Card Enabler with Advanced EtherJet <sup>17</sup> / <b>SelectaDock III</b> / SelectaDock I and II			
Port replicator	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video			
Docking Station	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
PC Card Std slots	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot			
USB / serial / parallel	Other features			
Video out	Video out (composite) / cable ships standard with RCA jack / Chrontel CH7004			
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)			
Data/fax modem	<b>56K</b> / v.90 <sup>22</sup> / 14.4Kbps fax / telephony / voice-capable / integrated Mwave <sup>3</sup> 3780i DSP / international programmable DAA / modem cable			
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record / CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone			
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex			
Infrared ports	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps			
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk			
Limited warranty <sup>11</sup>	<b>3 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround			
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date			
	- 56K PC Card Modem Kit - 56K PC Card Modem/Cellular capab - V.90 PC Card Modem with XJACK <sup>24</sup> - 10/100 EtherJet CardBus with 56K modem - IBM 10/100 EtherJet CardBus PC Cd - UltralimBay HDD adapter (for 2nd disk) - SuperDisk LS-120 (UltralimBay) - 2X DVD Drive (UltralimBay) - Zip 100MB UltralimBay Drive - UltralimBay Battery (600E only) - ThinkPad 600 Li-Ion Battery - External Battery Charger	04K0052 02K4196 10L7393 08L3167 08L3147 05K5336 20L1929 05K8890 37L1504 02K6504 12J2464 02K6499	- 6.4GB disk, 13ms, Ultra DMA/33 - 10GB disk, 12ms, Ultra DMA/33 - <b>SelectaBase 600</b> - PC Card Enabler <sup>17</sup> - PC Card Enabler with EtherJet™ <sup>17</sup> - SelectaDock I - SelectaDock II - <b>SelectaDock III</b> <sup>17</sup> - 56 watt AC Adapter (barrel; 3 prong) - <b>24X-10X CD-ROM</b> (UltralimBay; includes external diskette enclosure) - <b>32MB SO DIMM 3.3v NP SDRAM</b> - <b>64MB SO DIMM 3.3v NP SDRAM</b> - <b>128MB SO DIMM 3.3v NP SDRAM</b>	02K0518 36L9293 <b>12J2467</b> 83H6741 05K4820 3547001 3547002 <b>3547003</b> 83H6739 12J2471 <b>76H0294</b> <b>20L0241</b> <b>01K1150</b>
	- ThinkPad Proven™ solutions <sup>12</sup> (visit <a href="http://www.ibm.com/pc/us/thinkpad/proven">www.ibm.com/pc/us/thinkpad/proven</a> )			
			<b>WINDOWS 98 PRELOAD<sup>16</sup></b> - Microsoft® Windows® 98 • ThinkPad Utilities • Online User's Guide • ThinkPad Configuration Program • Ergonomics • IBM Registration • RingCentral Fax • Puma IntelliSync 97 (infrared) • IBM Global Network Dialer • Netscape Navigator web browser • ThinkPad on the Net (TCC CD) • ConfigSafe • Norton AntiVirus (OEM Version) • Mediamatics DVD Express • IBM Update Connector ◇ Lotus SmartSuite Millennium CD-ROM ◇ Customization Center CD-ROM ◇ Recovery CD-ROM (with boot diskette)	
			The right bay (UltralimBay) has LED on release latch to provide status; supports warm swapping: • std diskette and travel cover • std or optional CD-ROM • optional DVD drive <sup>19</sup> • optional UltralimBay battery (cold swap only; 600E only) • optional LS-120 SuperDisk drive (cold swap only) • optional Zip 100MB drive (cold swap) • optional HDD adapter; for second disk (cold swap only) • optional ThinkPad Proven™ solutions <sup>12</sup>	
			System does not have non-disruptive battery exchange. Battery can be changed while system is off, in hibernation, or under AC power.  ThinkPad 600 supported disks: - <b>3.2GB</b> 13ms read/14ms write 9.5 mm PIO Mode 4 or Ultra DMA/33 - <b>4.0GB</b> 13ms read/14ms write 12.5 mm PIO Mode 4 or Ultra DMA/33 - <b>5.1GB</b> 12ms read/13ms write 12.5 mm PIO Mode 4 or Ultra DMA/33 - <b>6.4GB</b> 13ms read/14ms write 12.5 mm PIO Mode 4 or Ultra DMA/33	
			<b>FEATURES</b> <b>PC 97 compliant</b> <b>DMI 2.0 compliant</b> DMI instrumentation (thermal monitoring) <b>ACPI ready</b> (APM enabled) <b>Wired for Management 1.1a</b> <b>Wake on LAN™ support</b> <sup>28</sup> Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 manual Plug and Play 1.0a Standby, suspend, safe suspend, and hibernation modes ENERGY STAR compliant International Warranty Service <sup>14</sup> <b>IBM SystemXtra™</b> <sup>35</sup> 24 hour / 7 day telephone <sup>30</sup> , bulletin board, fax, electronic, and Internet ( <a href="http://www.ibm.com/pc/us">www.ibm.com/pc/us</a> ) support	

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# IBM ThinkPad® 600E (1999) - withdrawn

IBM® ThinkPad®		WINDOWS 98 PRELOAD <sup>16</sup>				
Processor	Intel® Mobile Pentium® II 300PE or 366MHz <sup>1</sup> / 66MHz system bus					
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module					
L2 cache	256KB / onboard (full speed) / sync pipelined burst / write-back / ECC					
Diskette (removable)	3.5" 1.44MB / use in UltralimBay™ / ships in external diskette enclosure with a cable					
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)					
CD-ROM (removable)	Std or option: CD-ROM / 24X-10X <sup>5</sup> speed / bootable / removable from UltralimBay					
DVD (removable)	Std or option: DVD-ROM / bootable / removable from UltralimBay					
Type - model	2645-3AU	2645-4AU	2645-8AU	2645-5AU	2645-AAU	
Processor	PII 300PEMHz	PII 366MHz	PII 366MHz	PII 366MHz	PII 366MHz	
Preload (see side)	Windows 98	Windows 98	Windows NT	Windows 98	Blank (no disk)	
CD or DVD-ROM	CD-ROM	CD-ROM	CD-ROM	DVD-ROM	Optional	
Disk (removable)	4.0GB <sup>4</sup> / 13/14ms	6.4GB / 13/14ms			None	
Avail / withdraw date	Mar 1999 / Dec 99	Mar 99 / Mar 00			N/A	
Memory (std / max)	32MB / 288MB	64MB std / 288MB <sup>25</sup> max			32MB / 288MB	
Display	13.3" (337.8mm) TFT color / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480, 800x600, or 1024x768 (up to 16.7 million colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt					
Graphics - controller	NeoMagic™ MagicMedia256AV™ (NM2200) / Accelerated Graphics Port					
Graphics - features	2.5MB / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP 1X					
Graphics - external	Motion compensation / color space conversion / interpolation in X and Y axis					
Disk	Multiple-monitor support <sup>26</sup> for Windows 98 / simultaneous LCD and CRT <sup>26</sup> / DDC2B					
Disk controller	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors					
Keyboard / Fn keys	Left front / removable via coin screw or 2.5mm Allen wrench / SMART <sup>29</sup> / upgradeable					
Keyboard slope	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E					
Pointing device	DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter					
Dimensions <sup>36</sup>	Full size alp/num keys / 10 Fn key functions / integrated palm rest					
Weight <sup>2</sup>	Flat keyboard (does not lift up) / optional Port Replicator adds slope					
Battery - type	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps					
Battery - life <sup>10</sup>	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm					
Charge time - on / off	4.99 lbs (2.26 kg) with travel cover and battery only					
Architecture	Lithium Ion / intelligent / remove from base / locked with latch					
Port replicator	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltralimBay					
Docking Station	2 to 3 hrs / 1.5 to 2.5 hrs					
PC Card Std slots	Intel 440BX AGPset / Intel 82371EB PIIX4E (EIDE, ISA Bridge, USB) /					
USB / serial / parallel	TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer					
Other features	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion)					
Video (TV) out	PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)					
MPEG decoder	SelectaBase 600 / PC Card Enabler <sup>17</sup> / PC Card Enabler with Advanced EtherJet <sup>17</sup>					
Data/fax modem	SelectaDock III <sup>17</sup> / SelectaDock I and II					
Audio support	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video					
Jacks	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)					
Infrared ports	APM-aware BIOS / Ultralim 56 watt AC Adapter barrel, 3 prong / Selectable boot					
Security	5AU: Video out (composite) / cable ships standard with RCA jack / Chrontel CH7004					
Limited warranty <sup>11</sup>	None (W98 support for MPEG-2 because 300MHz with motion compensation)					
Service options <sup>15</sup>	56K <sup>22</sup> / V.90 / 14.4Kbps fax / telephony / voice-capable / integrated Mwave <sup>3</sup> 3780i DSP / international programmable DAA / modem cable					
	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record					
	CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX					
	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone					
	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex					
	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps					
	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk					
	3 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)					
	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date					
	- ThinkPad 600 Li-Ion Battery	12J2464	- 6.4GB disk, 13ms, Ultra DMA/33	02K0518		
	- 10/100 EtherJet CardBus with 56K modem	08L3167	- 10GB disk, 12ms, Ultra DMA/33	36L9293		
	- IBM 10/100 EtherJet CardBus PC Card	08L3147	- SelectaBase 600	12J2467		
			- PC Card Enabler with EtherJet <sup>17</sup>	05K4820		
			- SelectaDock III <sup>17</sup>	3547003		
			- Ultralim 56 watt AC Adapter (3 prong)	02K6545		
			- 24X-10X <sup>5</sup> CD-ROM (UltralimBay; includes external diskette enclosure)	12J2471		
			- 32MB SO DIMM 3.3v NP SDRAM	76H0294		
			- 64MB SO DIMM 3.3v NP SDRAM	20L0241		
			- 128MB SO DIMM 3.3v NP SDRAM	01K1150		
			- UltralimBay HDD adapter (for 2nd disk)	05K5336		
			- SuperDisk LS-120 (UltralimBay)	20L1929		
			- 2X <sup>5</sup> DVD Drive (UltralimBay)	05K8890		
			- 6X-2X <sup>5</sup> DVD Drive (UltralimBay)	05K9169		
			- Zip 100MB UltralimBay Drive (570/600)	37L1507		
			- UltralimBay Battery (600E only)	02K6504		
Color depth	LCD	External Monitor				
Resolution	TFT	60Hz	70Hz	75Hz	85Hz	
640x480	16M	16M	--	16M	16M	
800x600	16M	16M	--	16M	16M	
1024x768	16M	16M	16M	16M	64K	
1280x1024	--	256	--	64K	64K	
All models:						
- C: drive is FAT16 of 2GB						
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space						
<b>WINDOWS NT PRELOAD<sup>16</sup></b>						
- Microsoft® Windows NT® 4.0						
- Service Pack 4a						
• ThinkPad Utilities						
• Online User's Guide						
• ThinkPad Configuration Program						
• Ergonomics						
• IBM Registration						
• RingCentral						
• Puma IntelliSync 97 (infrared)						
• IBM Global Network Dialer						
• Netscape Communicator						
• Lotus SmartSuite Millennium <sup>20</sup>						
• Universal Management Agent						
• ThinkPad on the Net						
• ConfigSafe®						
• Norton AntiVirus (OEM Version)						
• Mediamatics DVD Express (5AU only)						
• IBM Update Connector						
• Access ThinkPad						
♦ Software Selections CD-ROM						
♦ Recovery CD-ROM (Windows 98)						
♦ Recovery CD-ROM (Windows 95) <sup>7</sup>						
<b>WINDOWS NT PRELOAD<sup>16</sup></b>						
- Microsoft Windows NT® 4.0						
- Service Pack 4a						
• ThinkPad Utilities						
• Online User's Guide						
• ThinkPad Configuration Program						
• Ergonomics						
• IBM Registration						
• Puma IntelliSync 97 (infrared)						
• IBM Global Network Dialer						
• Netscape Communicator						
• Lotus SmartSuite Millennium <sup>20</sup>						
• Universal Management Agent						
• ConfigSafe						
• Norton AntiVirus (OEM Version)						
• IBM Update Connector						
• Access ThinkPad						
• SystemSoft CardWizard						
♦ Software Selections CD-ROM						
♦ Recovery CD-ROM (Windows NT)						
The right bay (UltralimBay) has LED on release latch to provide status; supports warm swapping:						
• std diskette and travel cover						
• std or optional CD-ROM						
• std or optional DVD drive <sup>19</sup>						
• optional UltralimBay battery (cold swap only; 600E only)						
• optional LS-120 SuperDisk drive (cold swap only)						
• optional Zip 100MB drive (cold swap)						
• optional HDD adapter; for second disk (cold swap only)						
• optional ThinkPad Proven™ solutions <sup>12</sup>						
<b>PC 97 compliant</b>						
<b>DMI 2.0 compliant</b>						
DMI instrumentation (thermal monitoring)						
<b>ACPI ready</b> (APM enabled)						
<b>Wired for Management 1.1a</b>						
<b>Wake on LAN® support<sup>23</sup></b>						
Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 manual						
Plug and Play 1.0a						
Standby, suspend, safe suspend, and hibernation modes						
ENERGY STAR compliant						
Asset ID™ wireless RF technology (available only as an AAP option on the 600E model AAU; Atmel® AT24RF08 EEPROM)						
International Warranty Service <sup>14</sup>						
<b>IBM SystemXtra®</b> , <sup>35</sup>						
24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support						

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# IBM ThinkPad® 600E (400MHz) - withdrawn

<b>IBM® ThinkPad®</b>						<b>WINDOWS 98 PRELOAD<sup>16</sup></b>	
Processor	<b>Intel® Mobile Pentium® II 400MHz<sup>1</sup></b> / 66MHz system bus					<ul style="list-style-type: none"> <li>- Microsoft® Windows® 98</li> <li>• ThinkPad Utilities</li> <li>• Online User's Guide</li> <li>• ThinkPad Configuration Program</li> <li>• Ergonomics</li> <li>• IBM Registration</li> <li>• RingCentral Fax</li> <li>• Puma IntelliSync 97 (infrared)</li> <li>• IBM Global Network Dialer</li> <li>• Netscape Communicator</li> <li>• Lotus SmartSuite Millennium</li> <li>• Universal Management Agent</li> <li>• ThinkPad on the Net</li> <li>• ConfigSafe®</li> <li>• Norton AntiVirus™ (OEM Version)</li> <li>• Mediamatics DVD Express</li> <li>• IBM Update Connector</li> <li>• Access ThinkPad</li> <li>◆ Software Selections CD-ROM</li> <li>◆ Recovery CD-ROM (Windows 98)</li> <li>◆ Recovery CD-ROM (Windows 95)<sup>7</sup></li> </ul>	
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module						
L2 cache	<b>256KB / onboard (full speed)</b> / sync pipelined burst / write-back / ECC						
Diskette (removable)	3.5" 1.44MB / use in UltralimBay™ / ships in external diskette enclosure with a cable						
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)						
CD-ROM (removable)	<i>Std or option:</i> CD-ROM / 24X-10X <sup>5</sup> speed / bootable / removable from UltralimBay						
DVD (removable)	<i>Std or option:</i> DVD-ROM / bootable / removable from UltralimBay						
Type - model	<b>2645-4BU</b>	<b>2645-5BU</b>	<b>2645-8BU</b>	<b>2645-BAU (AAP)</b>			
Processor	<b>Pentium II 400MHz</b>	<b>Pentium II 400MHz</b>	<b>Pentium II 400MHz</b>	<b>Pentium II 400MHz</b>			
Preload (see side)	<b>Windows 98</b>	<b>Windows 98</b>	<b>Windows NT</b>	<b>Blank (no disk)</b>			
CD or DVD-ROM	<b>CD-ROM</b>	<b>DVD</b>	<b>CD-ROM</b>	<b>Optional</b>			
Disk (removable)	<b>10.0GB<sup>4</sup></b> / 12ms seek time / PIO4 or Ultra DMA/33			<b>None</b>			
Avail / withdrawn date	June 1999 / January 2001						
Memory (std / max)	<b>64MB</b> / 288MB <sup>25</sup>			<b>32MB</b> / 288MB <sup>25</sup>			
	SDRAM / non-parity / 66MHz / 3.3v / sockets accessed by removing screw on base						
	Two 144-pin sockets / 32MB on planar / 1 or 2 sockets available / for 64MB model, one socket used by 32MB SO-DIMM						
Display	<b>13.3"</b> (337.8mm) <b>TFT color</b> / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480, 800x600, or 1024x768 (up to 16.7 million colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt						
Graphics - controller	<b>NeoMagic™ MagicMedia256AV™</b> (NM2200) / Accelerated Graphics Port						
Graphics - features	<b>2.5MB</b> / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP-1x <b>Motion compensation</b> / color space conversion / interpolation in X and Y axis						
Graphics - external	Multiple-monitor support <sup>26</sup> for Windows 98 / simultaneous LCD and CRT <sup>26</sup> / DDC2B External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors						
Disk	Left front / removable via coin screw or 2.5mm Allen wrench / SMART <sup>29</sup> / upgradeable						
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / PIIX4E DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter						
Keyboard / Fn keys	Full-size 85-key keyboard / 10 Fn key functions / integrated palm rest						
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope						
Pointing device	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps						
Dimensions <sup>36</sup>	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm						
Approximate weight <sup>2</sup>	5.04 lbs (2.29 kg) w/ travel cover and battery only / IBM ThinkPad UltraCarbon™ case						
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch						
Battery - life <sup>10</sup>	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltralimBay						
Charge time <sup>10</sup> - on / off	2 to 3 hrs / 1.5 to 2.5 hrs						
Architecture	<b>Intel 440BX AGPset</b> / Intel 82371EB PIIX4E (EIDE, ISA Bridge, USB) / TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer						
Port replicator	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion)						
Docking Station	PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)						
PC Card Std slots	<b>SelectaBase 600</b> / PC Card Enabler <sup>17</sup> / PC Card Enabler with Advanced EtherJet <sup>17</sup>						
USB / serial / parallel	<b>SelectaDock III<sup>17</sup></b> / SelectaDock I and II						
Other features	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video						
Video (TV) out	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)						
MPEG decoder	APM-aware BIOS / Ultralim 56 watt AC Adapter barrel, 3 prong / selectable boot						
Data/fax modem	<b>5BU/BAU:</b> Video out (composite) / cable ships std with RCA jack / Chrontel CH7004						
Audio support	None (W98 support for MPEG-2 because 300MHz with motion compensation)						
Jacks	<b>56K<sup>22</sup></b> V.90 / 14.4Kbps fax / telephony / voice-capable / integrated Mwave® 3780i DSP / international programmable DAA / modem cable						
Infrared ports	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record						
Security	CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX						
Limited warranty <sup>11</sup>	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone						
Service options <sup>15</sup>	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex						
	Infrared port (on right) / IrDA 1.1 compatible / up to 4Mbps						
	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk						
	<b>3 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)						
	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date						
	- ThinkPad 600 Li-Ion Battery	12J2464	- 6.4GB disk, 13ms, Ultra DMA/33	02K0518			
	- 10/100 EtherJet CardBus with 56K <sup>22</sup> modem	08L3167	- 10GB disk, 12ms, Ultra DMA/33	36L9293			
	- IBM 10/100 EtherJet CardBus PC Card	08L3147	- SelectaBase 600	12J2467			
			- PC Card Enabler with Adv EtherJet <sup>17</sup>	05K4820			
			- SelectaDock III <sup>17</sup>	3547003			
			- Ultralim 56 watt AC Adapter (3 prong)	02K6545			
			- 24X-10X <sup>5</sup> CD-ROM (UltralimBay; includes external diskette enclosure)	12J2471			
			- 32MB SO DIMM 3.3v NP SDRAM	76H0294			
			- 64MB SO DIMM 3.3v NP SDRAM	20L0241			
			- 128MB SO DIMM 3.3v NP SDRAM	01K1150			
			- UltralimBay HDD adapter (for 2nd disk)	05K5336			
			- SuperDisk LS-120 (UltralimBay)	20L1929			
			- 2X <sup>5</sup> DVD Drive (UltralimBay)	05K8890			
			- 6X-2X <sup>5</sup> DVD Drive (UltralimBay)	05K9169			
			- Zip 100MB UltralimBay Drive (570/600)	37L1507			
			- UltralimBay Battery (600E only)	02K6504			
<b>Color depth</b>	<b>LCD</b>	<b>External Monitor</b>					
<b>Resolution</b>	<b>TFT</b>	<b>60Hz</b>	<b>70Hz</b>	<b>75Hz</b>	<b>85Hz</b>		
640x480	16M	16M	--	16M	16M		
800x600	16M	16M	--	16M	16M		
1024x768	16M	16M	16M	16M	16M		
1280x1024	--	256	--	--	--		
All models:							
- C: drive is FAT16 of 2GB							
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space							
	<b>WINDOWS NT PRELOAD<sup>16</sup></b>						
	<ul style="list-style-type: none"> <li>- Microsoft Windows NT® 4.0</li> <li>- Service Pack 4a</li> <li>• ThinkPad Utilities</li> <li>• Online User's Guide</li> <li>• ThinkPad Configuration Program</li> <li>• Ergonomics</li> <li>• IBM Registration</li> <li>• Puma IntelliSync 97 (infrared)</li> <li>• IBM Global Network Dialer</li> <li>• Netscape Communicator</li> <li>• Lotus SmartSuite Millennium<sup>20</sup></li> <li>• Universal Management Agent</li> <li>• ConfigSafe</li> <li>• Norton AntiVirus (OEM Version)</li> <li>• IBM Update Connector</li> <li>• Access ThinkPad</li> <li>• SystemSoft CardWizard</li> <li>◆ Software Selections CD-ROM</li> <li>◆ Recovery CD-ROM (Windows NT)</li> </ul>						
	The right bay (UltralimBay) has LED on release latch to provide status; supports warm swapping:						
	<ul style="list-style-type: none"> <li>• std diskette and travel cover</li> <li>• std or optional CD-ROM</li> <li>• std or optional DVD drive</li> <li>• optional UltralimBay battery (cold swap only; 600E only)</li> <li>• optional LS-120 SuperDisk drive (cold swap only)</li> <li>• optional Zip 100MB drive (cold swap)</li> <li>• optional HDD adapter; for second disk (cold swap only)</li> <li>• optional ThinkPad Proven™ solutions<sup>12</sup></li> </ul>						
	<b>PC 97 compliant</b>						
	<b>DMI 2.0 compliant</b>						
	DMI instrumentation (thermal monitoring)						
	<b>ACPI ready</b> (APM enabled)						
	<b>Wired for Management 1.1a</b>						
	<b>Wake on LAN® support<sup>28</sup></b>						
	Universal Management Agent™ support						
	Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or NT manual						
	Plug and Play 1.0a						
	Standby, suspend, safe suspend, and hibernation modes						
	ENERGY STAR compliant						
	Asset ID™ wireless RF technology (available only as an AAP option on the 600E model BAU; Atmel® AT24RF08 EEPROM))						
	International Warranty Service <sup>14</sup>						
	<b>IBM SystemXtra®<sup>35</sup></b>						
	24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support						

# IBM ThinkPad® 600X - withdrawn

IBM® ThinkPad®		WINDOWS 98 PRELOAD <sup>16</sup>					
Processor	Intel® Mobile Pentium® III 450 or 500MHz <sup>1</sup> / 100MHz system bus						
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module						
L2 cache	256KB / onboard (at processor speed) / sync pipelined burst / write-back / ECC						
Diskette (removable)	3.5" 1.44MB / use in UltralimBay™ / ships in external diskette enclosure with a cable						
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)						
CD-ROM (removable)	Std or option: CD-ROM / 24X-10X <sup>5</sup> speed / bootable / removable from UltralimBay						
DVD (removable)	Std or option: DVD-ROM / bootable / removable from UltralimBay						
Type - model	2645-3EU	2645-7EU	2645-4EU	2645-8EU	2645-5EU	2645-9EU	
Preload (see side)	Win 98	NT 4.0	Win 98	Win 2000	Win 98	NT 4.0	
Processor	Pentium III 450MHz		Pentium III 500MHz		Pentium III 500MHz		
CD or DVD-ROM	CD-ROM		CD-ROM		6X-2.3X <sup>5</sup> DVD / RPC II		
Disk (removable)	6.0GB <sup>4</sup> / 12ms seek read		12.0GB / 12ms seek read		12.0GB / 12ms seek (read)		
	PIO4 or Ultra DMA/33		PIO4 or Ultra DMA/33		PIO4 or Ultra DMA/33		
Avail / withdrawn date	Dec 1999 / Jan 2001		Dec 1999 / Jan 2001		Dec 1999 / Jan 2001		
Memory (std / max)	64MB / 576MB						
	SDRAM / non-parity / 100MHz / 3.3v / sockets accessed by removing screw on base / two 144-pin sockets / 64MB on planar / 2 sockets available						
Display	13.3" (337.8mm) TFT color / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480, 800x600, or 1024x768 (up to 16.7 million colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt						
Graphics - controller	NeoMagic™ MagicGraph256ZX™ (NM2360) / Accelerated Graphics Port / 4MB / SGRAM (embedded) / 128-bit engine, 256-bit memory interface / AGP 2X						
Graphics - features	Motion compensation / multiple-monitor support <sup>26</sup> for Windows 98 / simultaneous LCD and CRT <sup>26</sup> / DDC2B						
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors						
Disk	Left front / remove via coin screw or 2.5mm Allen wrench / SMART <sup>29</sup> / upgradeable						
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter						
Keyboard / Fn keys	Full-size 85-key keyboard / 10 Fn key functions / integrated palm rest						
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope						
Pointing device	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps						
Dimensions <sup>36</sup>	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm						
Approximate weight <sup>2</sup>	5.0 lbs (2.25 kg) w/ travel cover and battery only / IBM ThinkPad UltraCarbon™ case						
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch						
Battery - life <sup>10</sup>	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltralimBay						
Charge time <sup>10</sup> - on / off	2 to 3 hrs / 1.5 to 2.5 hrs						
Architecture	Intel 440BX AGPset / Intel PIII4M (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP 2X for graphics / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp)						
Port replicator	SelectaBase 600 / PC Card Enabler <sup>17</sup> / PC Card Enabler with Advanced EtherJet <sup>17</sup>						
Docking Station	SelectaDock III <sup>17</sup> / SelectaDock I and II						
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video						
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)						
Other features	APM-aware BIOS / Ultralim 56 watt AC Adapter barrel, 3 prong / selectable boot						
Video (TV) out	5EU/9EU: Video out (composite) / cable ships std with RCA jack / Chronel CH7004						
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)						
Data/fax modem	56K <sup>37</sup> V.90 / 14.4Kbps fax / telephony / voice-capable / Mini-PCI Type IIIb / Lucent® 1646 / international programmable DAA / modem cable						
Audio support	16-bit playback and record / full duplex / SoundBlaster Pro™ support / PCI / CS4624 / CS4297A AC97 codec						
Jacks	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone						
Infrared ports	Input jack (3.5 mm) / output jack (3.5 mm) / line in / full duplex						
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk						
Limited warranty <sup>11</sup>	3 year - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)						
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date						
- IBM Portable Drive Bay	33L1511	- 6.0GB disk, 12ms, ATA-66				05K9199	
- 10/100 EtherJet CardBus with 56K <sup>22</sup> modem	08L3167	- 12.0GB disk, 12ms, ATA-66				05K9200	
- IBM 10/100 EtherJet CardBus PC Card	08L3147	- 18.0GB disk, 12ms, ATA-66				37L2993	
		- SelectaBase 600				12J2467	
		- PC Card Enabler with Adv EtherJet <sup>17</sup>				05K4820	
		- SelectaDock III <sup>17</sup>				3547003	
		- Ultralim 56 watt AC Adapter (3 prong)				02K6545	
		- 24X-10X <sup>5</sup> CD-ROM (UltralimBay)				12J2471	
		32MB SO DIMM 100MHz NP SDRAM				20L0253	
		- 64MB SO DIMM 100MHz NP SDRAM				20L0254	
		- 128MB SO DIMM 100MHz NP SDRAM				20L0255	
		- 256MB SO DIMM 100MHz NP SDRAM				33L3069	
		- UltralimBay HDD adaptr (for 2nd disk)				05K5336	
		- SuperDisk LS-120 (UltralimBay)				20L1929	
		- 6X-2X <sup>5</sup> DVD Drive (UltralimBay)				05K9169	
		- Zip 100MB UltralimBay Drive (570/600)				37L1507	
		- UltralimBay Battery (600E/X only)				02K6504	
		- ThinkPad 600 Li-Ion Battery				12J2464	
<b>Color depth</b>	<b>LCD</b>	<b>External Monitor</b>					
<b>Resolution</b>	<b>TFT</b>	<b>60Hz</b>	<b>70Hz</b>	<b>75Hz</b>	<b>85Hz</b>		
640x480	16M	16M	--	16M	16M		
800x600	16M	16M	--	16M	16M		
1024x768	16M	16M	16M	16M	16M		
1280x1024	--	256	--	--	--		
All models:							
- C: drive is FAT16 of 2GB							
- D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space							
	<b>WINDOWS NT PRELOAD<sup>16</sup></b>						
	- Microsoft Windows NT® 4.0						
	- Service Pack 5						
	• ThinkPad Utilities						
	• Online User's Guide						
	• ThinkPad Configuration Program						
	• IBM Registration						
	• RingCentral Fax						
	• IBM Global Network Dialer						
	• Netscape Communicator						
	• Lotus® SmartSuite® Millennium <sup>20</sup>						
	• Universal Manageability Services						
	• ThinkPad on the Net						
	• ConfigSafe®						
	• Norton AntiVirus™ (OEM Version)						
	• Mediamatics DVD Express (5/9EU)						
	• IBM Update Connector						
	• Access ThinkPad						
	• Software Selections CD-ROM						
	• Recovery CD-ROM (Windows 98)						
	• Recovery CD-ROM (Windows 95) <sup>40</sup>						
	<b>WINDOWS NT PRELOAD<sup>16</sup></b>						
	- Microsoft Windows NT® 4.0						
	- Service Pack 5						
	• ThinkPad Utilities						
	• Online User's Guide						
	• ThinkPad Configuration Program						
	• IBM Registration						
	• PC-Doctor						
	• RingCentral Fax						
	• IBM Global Network Dialer						
	• Netscape Communicator						
	• Lotus SmartSuite Millennium <sup>20</sup>						
	• Universal Manageability Services						
	• ConfigSafe						
	• Norton AntiVirus (OEM Version)						
	• Mediamatics DVD Express (5/9EU)						
	• IBM Update Connector						
	• SystemSoft CardWizard						
	• Software Selections CD-ROM						
	• Recovery CD-ROM (Windows NT)						
	The right bay (UltralimBay) has LED on release latch to provide status; supports warm swapping:						
	• std diskette and travel cover						
	• std or optional CD-ROM						
	• std or optional DVD drive						
	• optional UltralimBay battery (cold swap only; 600E and 600X only)						
	• optional LS-120 SuperDisk drive (cold swap only)						
	• optional Zip 100MB drive (cold swap)						
	• optional HDD adapter; for second disk (cold swap only)						
	• optional ThinkPad Proven™ solutions <sup>12</sup>						
	<b>PC 99-compliant</b>						
	<b>CIM and DMI 2.0 compliant</b>						
	<b>Wired for Management 1.1a</b>						
	<b>Wake on LAN® support<sup>28</sup></b>						
	APM enabled (ACPI ready)						
	Local and remote asset management via the IBM Universal Manageability Services						
	Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or NT manual						
	Plug and Play 1.0a						
	Standby, suspend, safe suspend, and hibernation modes						
	ENERGY STAR compliant						
	Asset ID™ wireless RF technology (available as special bid option; Atmel® AT24RF08 EEPROM)						
	International Warranty Service <sup>14</sup>						
	<b>IBM SystemXtra®<sup>35</sup></b>						
	24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support						

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 ⌘ 2645-8EU withdrawn effective July 2000

No warranties are expressed or implied in this summary  
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# IBM ThinkPad® 600X (2000) - withdrawn

<b>IBM® ThinkPad®</b>		<b>WINDOWS 98 PRELOAD<sup>16</sup></b>	
Processor	<b>Intel® Mobile Pentium® III 500MHz<sup>1</sup> with 100MHz system bus or Pentium® III 650MHz<sup>1,41</sup> with SpeedStep™ technology and 100MHz system bus</b>		
Processor features	No upgrade / processor, L2 cache, and mem cntr (North Bridge) on Mobile Module		
L2 cache	<b>256KB / onboard (at processor speed)</b> / sync pipelined burst / write-back / ECC		
Diskette (removable)	3.5" 1.44MB / use in UltralimBay™ / ships in external diskette enclosure with a cable		
External FDD port	External diskette port on right side (can use simultaneously with internal CD/DVD)		
CD-ROM (removable)	<i>Std or option:</i> CD-ROM / 24X-10X <sup>5</sup> speed / bootable / removable from UltralimBay		
DVD (removable)	<i>Std or option:</i> DVD-ROM / bootable / removable from UltralimBay		
Type - model	<b>2645-8PU</b>	<b>2645-5FU</b>	<b>2645-9FU</b>
Preload (see side)	<b>Windows 2000 Pro</b>	<b>Windows 98 SE</b>	<b>Windows 2000 Pro</b>
Processor	<b>Pentium III 500MHz</b>	<b>Pentium III 650MHz</b>	<b>Pentium III 650MHz</b>
CD or DVD-ROM	<b>CD-ROM</b>	<b>6X-2X<sup>5</sup> DVD / RPC II</b>	<b>CD-ROM</b>
Disk (removable)	<b>12.0GB<sup>4</sup> / 12ms seek read / 14ms write / ATA-66 or PIO Mode 4 / S.M.A.R.T.<sup>29</sup></b>		
Avail / withdrawn date	February 2000 / February 2001		
Memory (std / max)	<b>64MB / 576MB</b>		
	SDRAM / non-parity / 100MHz / 3.3v / sockets accessed by removing screw on base / two 144-pin sockets / 64MB on planar / 2 sockets available		
Display	<b>13.3"</b> (337.8mm) <b>TFT color</b> / Active Matrix / XGA / 75ms / 100 to 1 contrast ratio / 640x480, 800x600, or 1024x768 (up to 16.7 million colors) / 150 nits (AC), 90 nits (battery) / 180 degree tilt		
Graphics - controller	<b>NeoMagic™ MagicGraph256ZX™</b> (NM2360) / Accelerated Graphics Port / <b>AGP 2X 4MB</b> / SGRAM (embedded) / 128-bit engine, 256-bit memory interface		
Graphics - features	<b>Motion compensation</b> / multiple-monitor support <sup>26</sup> for Windows 98 SE only / simultaneous LCD and CRT <sup>26</sup> / DDC2B		
Graphics - external	External SVGA to 1024x768x16.7 million colors at 85Hz and 1280x1024x256 colors		
Disk	Left front / remove via coin screw or 2.5mm Allen wrench / SMART <sup>29</sup> / upgradeable		
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / South Bridge / DMA Mode 2, Ultra DMA/33, or PIO Mode 4 / supports 2nd disk in opt HDD adapter		
Keyboard / Fn keys	Full-size 85-key keyboard / 10 Fn key functions / integrated palm rest		
Keyboard slope	Flat keyboard (does not lift up) / optional Port Replicator adds slope		
Pointing device	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps		
Dimensions <sup>36</sup>	Approximately 11.8 x 9.4 x 1.4" (155 cubic inches); 300mm x 240mm x 36.5mm		
Approximate weight <sup>2</sup>	4.99 lbs (2.25 kg) w/ travel cover and battery only / IBM ThinkPad UltraCarbon™ case		
Battery - type	Lithium Ion / intelligent / remove from base / locked with latch		
Battery - life <sup>10</sup>	3.0 hrs / no non-disruptive battery exchange / supports 2nd battery in UltralimBay		
Charge time <sup>10</sup> - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		
Architecture	<b>Intel 440BX AGPset</b> / Intel PIII4M (EIDE, ISA Bridge, USB) / TI® PCI1450 for CardBus / AGP 2X for graphics / PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) / PC97338 Super I/O / ISA (diskette, serial, parallel, infrared, ext exp)		
Port replicator	<b>SelectaBase 600</b> / PC Card Enabler <sup>17</sup> / PC Card Enabler with Advanced EtherJet <sup>17</sup>		
Docking Station	<b>SelectaDock III<sup>17</sup></b> / SelectaDock I and II		
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / PCMCIA 2.1 / Zoomed Video		
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Ultralim 56 watt AC Adapter barrel, 3 prong / selectable boot		
Video (TV) out	<b>5FU/9FU:</b> Video out (composite) / cable ships std with RCA jack / Chronlet CH7004		
MPEG decoder	None (W98 support for MPEG-2 because 300MHz with motion compensation)		
Data/fax modem	<b>56K<sup>37</sup></b> V.90 / 14.4Kbps fax / telephony / voice-capable / Mini-PCI Type IIIb / Lucent® 1646 / international programmable DAA / modem cable		
Audio support	16-bit playback and record / full duplex / SoundBlaster Pro™ support / PCI / CS4624 / CS4297A AC97 codec		
Jacks	Int stereo speakers (front) / .5 watt / Fn+PgUp and PgDn (volume) / int microphone		
Infrared ports	Input jack (3.5 mm) / output jack (3.5 mm) / line in / full duplex		
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screw on base for memory / opt Allen screw for disk		
Limited warranty <sup>11</sup>	<b>3 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround)		
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date		
- IBM Portable Drive Bay	33L1511	- 6.0GB disk, 12ms, ATA-66	05K9199
- 10/100 EtherJet CardBus with 56K <sup>22</sup> modem	08L3167	- 12.0GB disk, 12ms, ATA-66	05K9200
- IBM 10/100 EtherJet CardBus PC Card	08L3147	- 18.0GB disk, 12ms, ATA-66	37L2993
		- SelectaBase 600	12J2467
		- PC Card Enabler with Adv EtherJet <sup>17</sup>	05K4820
		- SelectaDock III <sup>17</sup>	3547003
		- Ultralim 56 watt AC Adapter (3 prong)	02K6545
		- 24X-10X <sup>5</sup> CD-ROM (UltralimBay)	12J2471
		- 64MB SO DIMM 100MHz NP SDRAM	20L0254
		- 128MB SO DIMM 100MHz NP SDRAM	20L0255
		- 256MB SO DIMM 100MHz NP SDRAM	33L3069
		- UltralimBay HDD adaptr (for 2nd disk)	05K5336
		- SuperDisk LS-120 (UltralimBay)	20L1929
		- 6X-2X <sup>5</sup> DVD Drive (UltralimBay); RPC II	05K9169
		- Zip 100MB UltralimBay Drive (570/600)	37L1507
		- UltralimBay Battery (600E/X only)	02K6504
		- ThinkPad 600 Li-Ion Battery	12J2464
		- IBM 340MB microdrive	00N8073
Windows 98 model:			
- C: drive is FAT16 of 2GB			
- D: drive is FAT32 of remaining space			
Windows 2000 models:			
- C: drive is FAT32 of entire drive			
			<b>WINDOWS 2000 PRELOAD<sup>16</sup></b>
			- Windows 2000® Professional
			• ThinkPad Utilities
			• Online User's Guide
			• ThinkPad Configuration Program
			• IBM Registration
			• RingCentral Fax
			• Netscape Communicator
			• Lotus® SmartSuite® Millennium
			• ThinkPad on the Net
			• ConfigSafe®
			• Norton AntiVirus™ (OEM Version)
			• Mediamatics DVD Express (5/9FU)
			• IBM Update Connector
			• Access ThinkPad
			◇ Software Selections CD-ROM
			◇ Recovery CD-ROM (Windows 98 SE)
			◇ Recovery CD-ROM (Windows 95) <sup>40</sup>
			<b>WINDOWS 2000 PRELOAD<sup>16</sup></b>
			- Windows 2000® Professional
			• ThinkPad Utilities
			• Online User's Guide
			• ThinkPad Configuration Program
			• IBM Registration
			• PC-Doctor
			• RingCentral Fax
			• Netscape Communicator
			• Lotus SmartSuite Millennium
			• ConfigSafe
			• IBM Update Connector
			• SystemSoft CardWizard
			◇ Software Selections CD-ROM
			◇ Recovery CD-ROM (Windows 2000)
			◇ Recovery CD-ROM (Windows NT) <sup>40</sup>
			The right bay (UltralimBay) has LED on release latch to provide status; supports warm swapping:
			• std diskette and travel cover
			• std or optional CD-ROM
			• std or optional DVD drive
			• optional UltralimBay battery (cold swap only; 600E and 600X only)
			• optional LS-120 SuperDisk drive (cold swap only)
			• optional Zip 100MB drive (cold swap)
			• optional HDD adapter; for second disk (cold swap only)
			• optional ThinkPad Proven™ solutions <sup>12</sup>
			<b>PC 99-compliant</b>
			<b>CIM and DMI 2.0 compliant</b>
			<b>Wired for Management 1.1a</b>
			<b>Wake on LAN® support<sup>28</sup></b>
			APM enabled (ACPI ready)
			Local and remote asset management via the IBM Universal Manageability Services
			Remote setup and low-level maintenance via IBM LANclient Control Manager™
			Setup Guide, User's Reference, Quick Reference and Service Information Card, Options by IBM Catalog, Windows 98 or 2000 manual
			Plug and Play 1.0a
			Standby, suspend, safe suspend, and hibernation modes
			ENERGY STAR compliant
			Asset ID™ wireless RF technology (available as special bid option; Atmel® AT24RF08 EEPROM)
			International Warranty Service <sup>14</sup>
			<b>IBM SystemXtra®<sup>35</sup></b>
			24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support

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# IBM ThinkPad 701 - withdrawn

IBM® ThinkPad®:	≧ 701CS					≧ 701C					ThinkPad 701CS / 701C strengths:
	dual scan color					TFT color					
Processor 3.3 volt	<b>80486DX2</b>					<b>IntelDX4</b>					<ul style="list-style-type: none"> <li>☛ Full sized, folding TrackWrite keyboard</li> <li>☛ Full sized 10.4" color dual scan or TFT display</li> <li>☛ Subnotebook size and weight (4.5 pounds)</li> <li>☛ Audio, 14.4/14.4 data/fax modem, telephony</li> <li>☛ Infrared communication</li> <li>☛ TrackPoint III and removeable disk</li> </ul>
Processor speed	<b>50/25 MHz</b>					<b>75/25 MHz</b>					
Coprocessor socket	N/A (math coprocessor std in DX2/DX4)					The 701 has a External Bus Connector to attach either standard MultiPort II or (with optional Adapter Kit) Dock II					
Memory cache	8 KB in DX2; 16 KB in DX4 / no L2 cache										
Diskette	External 3.5" 1.44 MB / hot-pluggable										
Removeable CD-ROM	Not supported										
Price (retail USD)	\$2,499	2,749	1,499*	1,649*	1,799*	\$2,999	3,299	1,999*	2,149*	2,299*	Integrated chipsets provide:
Type - model <b>all 2630</b>	US2	US5	2SU	5SU	7SU	UT2	UT5	2TU	5TU	7TU	
Removeable disk - size	<b>360 MB</b>	<b>540</b>	<b>360</b>	<b>540</b>	<b>720</b>	<b>360</b>	<b>540</b>	<b>360</b>	<b>540</b>	<b>720</b>	<ul style="list-style-type: none"> <li>① <b>Data modem function</b></li> <li>- V.22bis (2400 bps)</li> <li>- V.32 (9600 bps)</li> <li>- V.32bis (14.4 Kbps)</li> <li>② <b>Fax modem function</b></li> <li>- Class 1 fax send/receive (14.4 Kbps)</li> <li>③ <b>Audio function</b></li> <li>- 16 bit audio / 44.1 kHz sampling rate</li> <li>- Stereo waveform record and playback</li> <li>- 18 voice MIDI wave table synthesizer</li> <li>- SoundBlaster™ support</li> <li>- Text to speech (via Monologue)</li> <li>④ <b>Telephone function</b></li> <li>- Full telephone (can use opt headset)</li> <li>- Telephone answering machine</li> <li>- Full duplex speakerphone</li> </ul>
Hard disk - spd ms	13 ☐	13 ☐	13 ☐	13 ☐	13 ☐	13 ☐	13 ☐	13 ☐	13 ☐	13 ☐	
Available date	Mar 95	Mar 95	Mar95	Mar95	Sep95	Mar95	Mar95	Mar95	Mar95	Sep95	
Display - type	<b>VGA color / 640 x 480</b>					<b>VGA color / 640 x 480</b>					
Display - colors	<b>65,536 simultaneous colors</b>					<b>65,536 simultaneous colors</b>					
Display - technology	<b>Dual scan</b>					<b>TFT - active matrix</b>					
Display - diagonal size	<b>10.4 inch / 20 to 1 contrast ratio</b>					<b>10.4 inch / 100 to 1 contrast ratio</b>					
Graphics - controller	CT-65545 with 1 MB DRAM					Chips & Technologies / External SVGA to 1024 x 768 256 colors (up to 70 Hz)					
Graphics - vendor	Chips & Technologies / External SVGA to 1024 x 768 256 colors (up to 70 Hz)										
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt										
Memory - std / max	<b>4 / 36 MB</b>		<b>8 / 40 MB</b>			<b>4 / 36 MB</b>		<b>8 / 40 MB</b>			
Memory - type	70 ns / non-parity / 3.3 volt					The two wings (ends) of the TrackWrite™ keyboard slide into position automatically every time the lid is opened or closed					
Mem - sockets empty	1 socket										
Mem-options available	4, 8, 16, 32 MB SO-DIMMs										
Keyboard / # of keys	<b>Full size alp/num / 85 key</b> (15 Fn key functions)					Fn key functions:					
Keyboard slope	Yes (use MultiPort II stand that flips out)					- Configuration Utility					
Mouse/pointing	<b>TrackPoint III™ on TrackWrite keyboard</b>					- Battery Status					
Ext keyboard support	Yes (no cable required)					- Standby/Suspend					
Dimensions	9.7 x 7.9 x 1.7" (130 cubic inches)					- Hibernation					
Color	Black					- Speaker off (audio mute)					
Weight (with battery)	4.5 pounds					- Hard disk off					
Battery - type	Super NiCad or NiMH (DX4 mdl's built after 9/95)					- LCD or CRT or both					
Battery - life	2.5 to 7 hours					- Reverse appearance					
Charge time - on / off	1.5 hrs / battery will not charge if unit is off					- Increase/decrease contrast					
Architecture	AT bus (ISA)					- Brighten/dim LCD					
Docking Station	Dock II (requires optional Dock II Adapter Kit)					- Speaker volume up/down					
Port replicator	None (use standard MultiPort II)										
PCMCIA™ 2.1 slots	<b>2 Type I or 2 Type II or 1 Type III</b>										
Serial / parallel ports	One 9 pin; 16550A / ECP/EPP parallel 36 pin (IEEE 1284); non-DMA										
Other features	APM-aware BIOS / Wallmount AC adapter (30 watts) w/ 2 prongs / Selectable boot										
Functions	<b>Data modem, fax modem, audio, telephony function</b>										
Data/fax modem	<b>14.4/14.4 data/fax modem function (with RJ11 jack)</b>										
Audio support	<b>16 bit audio chip on planar (ESS688 and Yamaha OPL3) / FM Synthesis</b>										
Audio in/out jacks	Input jack / microphone jack / output jack										
Telephone	Telephone / answering machine / full duplex speakerphone										
Infrared ports	<b>Infrared port (on back) / IRDA 1.0 compatible / up to 115.2 Kbps</b>										
Security	Power-on password / locking device keyhole also called MicroSaver™ security connector (Kensington™ lock)										
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, (and OS/2 Warp on DX4 models), and all appls listed to right:										
Warranty	<b>3 year - EasyServ only (optional onsite special bid only)</b>										

<p>Configuration Utility is entered by Fn+F1 at any time</p> <p><b>MultiPort II</b> (ships standard) is 1.7 x .9 x 10" and has ports for:</p> <ul style="list-style-type: none"> <li>- Mouse/Numpad connector (6 pin)</li> <li>- External keyboard connector (6 pin)</li> <li>- EPP parallel port (25 pin)</li> <li>- Serial connector (RS-232D - 9 pin)</li> <li>- Audio line in (3.5 mm)</li> <li>- Audio line out (3.5 mm)</li> <li>- External display connector (15 pin)</li> <li>- DC input connector</li> </ul> <p>ECP/EPP port (36 lines) connects either the external floppy or a printer. The standard External Diskette Drive Cable (13.2") has a 36-pin and a 26-pin connector. The Standard Printer Cable Adapter (7.1") has a 36-pin connector and a 25-pin connector (so a conventional printer cable is needed)</p> <p>≧ Withdrawn from marketing eff December 1995</p>	<p>Compatible in all 701 models:</p> <table border="0"> <tr><td>- Disks: 540 MB disk 13 ms</td><td>04H6894</td></tr> <tr><td>720 MB disk 13 ms</td><td>10H4096</td></tr> <tr><td>- Dock II (2 slot / 2 bay)</td><td>84G3587</td></tr> <tr><td>- Dock II Adapter Kit</td><td>04H6196</td></tr> <tr><td>- 4 MB SO-DIMM 3.3v</td><td>92G7259</td></tr> <tr><td>- 8 MB SO-DIMM 3.3v</td><td>92G7261</td></tr> <tr><td>- 16 MB SO-DIMM 3.3v</td><td>92G7263</td></tr> <tr><td>- 32 MB SO-DIMM 3.3v</td><td>92G7281</td></tr> <tr><td>- Universal AC Adapter 30 watts</td><td>04H8367</td></tr> <tr><td>- AC Adapter 30 w, wall, 2 pin</td><td>10H4020</td></tr> <tr><td>- AC Adapter 35 w, ww, 3 pin</td><td>85G6680</td></tr> <tr><td>- Super NiCad Battery</td><td>10H4019</td></tr> <tr><td>- NiMH Battery</td><td>25H4862</td></tr> <tr><td>- MultiPort II</td><td>10H4021</td></tr> <tr><td>- External diskette with cable</td><td>10H4068</td></tr> <tr><td>- EPP Printer Cable &amp; Cable Pack</td><td>10H4069</td></tr> </table> <p>ThinkPad 360, 750, 755 family disks, batteries, memory, and Dock I are NOT compatible in the ThinkPad 701 family</p>	- Disks: 540 MB disk 13 ms	04H6894	720 MB disk 13 ms	10H4096	- Dock II (2 slot / 2 bay)	84G3587	- Dock II Adapter Kit	04H6196	- 4 MB SO-DIMM 3.3v	92G7259	- 8 MB SO-DIMM 3.3v	92G7261	- 16 MB SO-DIMM 3.3v	92G7263	- 32 MB SO-DIMM 3.3v	92G7281	- Universal AC Adapter 30 watts	04H8367	- AC Adapter 30 w, wall, 2 pin	10H4020	- AC Adapter 35 w, ww, 3 pin	85G6680	- Super NiCad Battery	10H4019	- NiMH Battery	25H4862	- MultiPort II	10H4021	- External diskette with cable	10H4068	- EPP Printer Cable & Cable Pack	10H4069	<p><b>FEATURES OF 701CS / 701C MODELS</b></p> <p>Battery life indicator Non-disruptive battery exchange Standby, suspend, hibernation, and RediSafe modes US EPA Energy Star compliant Personalized nameplate in molded indentation</p> <p style="text-align: center;"><b>HELPWARE</b></p> <p><b>3 year warranty</b> <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM or dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b></p>
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- EPP Printer Cable & Cable Pack	10H4069																																	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.

☐ = Upgradeable; ○ = Removable; \* DX4 models had price decrease effective Feb 9, 1996

≧ = Withdrawn from marketing on or before June 1996

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No warranties are expressed or implied in this summary  
(701) Compiled by Roger Dodson, IBM. June 1996

# IBM ThinkPad 710T, 720, 720C - withdrawn

IBM® ThinkPad®:	⌘ 710T pen tablet	⌘ 720 monochrome			⌘ 720C color TFT
Processor type	<b>80486 SLC</b>			<b>80486 SLC2</b>	
Processor speed	<b>25 MHz</b>			<b>50/25 MHz</b>	
Memory cache	16 KB internal			16 KB internal	
Coprocessor socket	No			Yes (for 387 SL)	
Diskette drive	Optional 3.5" 1.44 MB			3.5" 1.44 MB	
Price (retail USD)	\$ 1,859	\$ 2,749	\$ 2,849	\$ 2,495 ↕	\$ 2,655 ↕
Type - model	2523-09Y	2523-302	2523-303	9552-307	9552-308
Hard drive - size	Option (TPF)	<b>60 MB</b>	<b>60 MB</b>	<b>120 MB</b> ▣	<b>160 MB</b> ▣
Hard drive - speed	5, 10, 15 MB	18.5 ms	18.5 ms	17 ms ○	15 ms ○
Available date	March 93	March 93	March 93	May 93	May 93
Withdrawal date	Sept 94	Sept 94	March 94	March 94	March 94
Display - type	VGA mono			VGA color	
Display - grey scales	16 grey scales			256 colors 640x480	
Display - technology	STN Transflective			Thin film transistor	
Display - light source	LCD - Backlit			Active matrix	
Display - size (diag)	9.5 inch			10.4 inch	
Display - contrast ratio	3 to 1			100 to 1	
180 degree display tilt	N/A			Yes	
Memory - std / max	4 / 12 MB 80 ns			4 / 16 MB 80 ns	
Mem - sockets empty	1 socket (parity)			2 sockets (parity)	
SIMM/ICs available	2, 4, 8 MB SIMMs			2, 4, 8 MB ICs	
Keyboard / # of keys	External (any PS/2 keyboard)			Full size alp/num/ 84	
Fn key functions	N/A (no keyboard)			None	
Keyboard slope	N/A is supported)			8 degrees (legs)	
Mouse/pointing	Electromagnetic pen			<b>TrackPoint II™</b>	
Ext keyboard support	Yes			Yes (with opt cable)	
Dimensions	11.6 x 9.6 x 1.4"			11.7 x 8.3 x 1.9"	
Cubic inches	156 inches			185 inches	
Carrying case	Blk nylon standard			Many options available	
Color	Black			Black	
Weight (with battery)	5.2 pounds (09Y); 5.5 pounds (302,3)			6.5 pounds	
Battery - type	Nickel cadmium			Nickel hydride	
Batt - life (per battery)	3.3 to 4.1 hrs (09Y); 3.1 to 3.8 (302,3)			4 to 8 hours	
Charge time - on / off	N/A / 3 hrs (unit off or suspend only)			3 hrs / 2 hrs	
Battery - options	Nickel cadmium half size battery			Yes - status indicator	
Architecture	Local / AT I/O, DMA			Micro Channel®	
External AT/MCA port	Yes			Yes	
Comm Ctrrdge (1 card)	No			Yes (black)	
Docking Station	No			Yes (3550-002) black	
Port replicator	No			Yes black	
Modem/serial slot	No			No	
PCMCIA slots	3 Type II (09Y); 1 Type II (302, 303)			<b>2 Type I or 2 Type II</b>	
Visible LEDs - closed	N/A			Yes or 1 Type III	
Serial / parallel ports	Yes / Yes			Yes / Yes (DMA)	
APM-aware BIOS	No			APM-aware BIOS	
Other features	09Y: PenDOS, PenPoint on optional			Hrdw security loop	
Preinstalled software	solid state files (10, 15 MB).			IBM DOS 5.02,	
	302: PenDOS 2.0; 303: PenPoint			PRODIGY®	
Warranty	1 year - EasyServ only			<b>3 year</b> - carry in or EasyServ (opt onsite)	

The 700/720 family hard disks, batteries, and docking station are NOT compatible with ThinkPad 360, 750, 755.  
The 700/720 memory IS compatible with ThinkPad 360, 750, 755.

<p><b>FEATURES OF 700/700C and 720/720C</b></p> <p><b>3 year warranty</b></p> <p><b>700/720 mono upgradeable to TFT color</b></p> <p><b>700/700C upgradeable to 486SLC2 50/25</b></p> <p><b>Upgradeable to 120, 160, 240, 340 MB</b></p> <p><b>Removable hard disk</b></p> <p><b>Pressure activated TrackPoint II</b></p> <p>Optional battery w/ power status indicators</p> <p>Quick Charger holds 2 batt; discharge button</p> <p><b>Coupon book with \$4,000 in savings</b></p>	<p>⌘ Withdrawn from marketing</p>	<p><b>FEATURES OF ALL PRODUCTS</b></p> <p>Suspend/resume mode; battery life indicator</p> <p>Non-disruptive battery exchange</p> <p>Simultaneous LCD and external CRT</p> <p>US EPA Energy Star compliant</p> <p><b>International travelers warranty</b></p> <p><b>IBM or dealer warranty/service</b></p> <p><b>30 day money back guarantee</b></p> <p><b>24 hour / 7 day fax support</b></p> <p><b>24 hour / 7 day bulletin board support</b></p> <p><b>24 hour / 7 day telephone support at</b></p> <p><b>1-800-772-2227</b></p>
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**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight).  
STN = Super twisted nematic; ▣ = Upgradeable; ○ = Removable

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No warranties are expressed or implied in this summary  
(2THINKKW) Compiled by Roger Dodson, IBM. September 1994

# IBM ThinkPad 730T - withdrawn

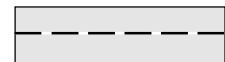
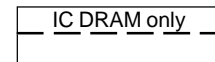
<b>IBM® ThinkPad®:</b>	⚡ <b>730T</b> pen tablet			
Processor type	<b>80486SX</b> (3.3 volt SL Enhanced)			
Processor speed	<b>33 MHz</b>			
Memory cache	8 KB internal (no L2 cache)			
Coprocessor socket	No			
Diskette drive	Optional 3.5" 1.44 MB (same as ThinkPad 710T and 730TE)			
Price (retail USD)	\$ 2,569	\$ 2,879	\$ 3,119	\$ 3,429
Type - model	2524-801	2524-901	2524-80F	2524-90F
Hard drive - size	Option (required	Option (required	<b>105 MB PCMCIA</b>	<b>105 MB PCMCIA</b>
Hard drive - speed	via PCMCIA disk)	via PCMCIA disk)	15 ms	15 ms
Preinstalled software	N/A	N/A	IBM DOS 6.3 Windows for Pen Computing	IBM DOS 6.3 Windows for Pen Computing
Avail / withdrawn date	May 1994 / June 1996	May 1994 / June 1996	May 1994 / June 1996	May 1994 / June 1996
Memory - std / max	4 / 20 MB	8 / 24 MB	4 / 20 MB	8 / 24 MB
Mem - sockets empty	Uses a specific Type III PCMCIA slot; this will then permit a Type I or II PCMCIA card in rest of slot			
Memory - type	70 ns / non-parity / 5.0 volt			
Memory - options	4, 8, 16 MB ICs			
Display - type	VGA 640 x 480 monochrome	(External display is 640 x 480 with 16 colors)		
Display - grey scales	16 grey scales	(Simultaneous LCD and CRT display)		
Display - technology	STN Transflective	Transflective: can turn on backlight in dark areas or turn it off in bright areas		
Display - light source	LCD - Backlit			
Display - size (diag)	9.5 inch			
Display - contrast ratio	3 to 1			
Keyboard	External (any IBM keyboard is supported; attach to port replicator)			
Mouse/pointing	Electromagnetic pen/digitizer/stylus that realistically simulates the feel of pen-to-paper / untethered / batteryless (a mouse is not supported) / stylus is stored in a compartment on bottom			
Dimensions	10.6 x 8.3 x 1.4"			
Cubic inches	123 inches			
Carrying case	Blk nylon standard (many options also available)			
Color	Black			
Weight (with battery)	3.5 pounds (1 battery); 3.9 pounds (2 batteries)			
Battery - type	Nickel hydride (NiMH)		A false battery pack ships	
Battery - quantity	Two batteries ship standard / can use one or two batteries		standard if only want to	
Batt - life (per battery)	1 battery: 2 to 5 hours		use one battery	
	2 battery: 4 to 10 hours			
Charge time - on / off	N/A / 1.5 hours (unit off or suspend only)			
Architecture	Local memory bus / ISA			
Docking Station	No			
Port replicator	Yes (ships standard / attach to 200 pin connector)			
	Port Replicator includes ① 15 pin external CRT port, ② 9 pin 16550A serial port, ③ 25 pin EPP parallel port, ④ diskette drive connector, ⑤ keyboard port, ⑥ DC port for AC connector			
Modem/serial slot	No (use PCMCIA)			
PCMCIA 2.01 slots	<b>3 Type II or 2 Type III</b> as follows: 1st slot: 2 Type II or 1 Type III (but any additional memory must go into this slot; so adding IC DRAM memory will leave 1 Type II slot remaining) 2nd slot: 2 Type II or 1 Type III (105 MB PCMCIA disk in Models 80F/90F is installed here)			
Serial / parallel ports	Yes (on Port Replicator) / Yes (on Port Replicator)			
Warranty	<b>3 year</b> - ThinkPad EasyServ™			

The ThinkPad 730T requires a bootable operating system with Pen capability. Supported is:

- PenDOS® 2.2 with IBM DOS 6.3  
84G9180 - PCMCIA HDD 105 MB PenDOS preloaded
- Pen for OS/2 1.0 with OS/2® 2.11  
84G9190 - PCMCIA HDD 105 MB Pen for OS/2 preloaded
- Windows for Pen Computing® 3.1 with IBM DOS 6.3  
Models 80F/90F are preloaded with Windows for Pen Computing
- PenRight!® (available at dealers)

## PCMCIA SLOT CONFIGURATION

Two Type III (10 mm high):



PCMCIA Type III  
260 MB disk in this slot  
(Model 80F)

Quick Charger	66G9540
Car Battery Adapter	66G9545
NiMH Battery (dual)	66G9550
AC Adapter 20 watts	84G0480
PortReplicator	84G0485
External 3.5" 1.44 MB diskette drive	48G8263
105 MB HDD (PenDOS)	84G9180
105 MB HDD (PenOS2)	84G9190
Hand Strap	84G0495
Soft Case	84G0490
Battery Case	84G0500

4 MB IC DRAM 70 ns 5v non-parity
8 MB IC DRAM 70 ns 5v non-parity
16 MB IC DRAM 70 ns 5v non-parity

92G7236
92G7237
92G7424

## FEATURES OF THINKPAD 730T

- Suspend/resume mode
- Battery life indicator
- Non-disruptive battery exchange
- US EPA Energy Star compliant
- 3 year warranty**
- International Warranty Service**
- 24 hour / 7 day telephone, bulletin board, fax, and electronic support**
- IBM warranty/service**
- 30 day money back guarantee**

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
⚡ = Withdrawn from marketing

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No warranties are expressed or implied in this summary  
(730T) Compiled by Roger Dodson, IBM. June 1996

# IBM ThinkPad 730TE - withdrawn

<b>IBM® ThinkPad®:</b>	⌘ <b>730TE</b> pen tablet		The 730TE is the same as the 730T (older models) except: <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 50%;">730T</th> <th style="width: 50%;">730TE</th> </tr> </thead> <tbody> <tr> <td>⌘ 486SX - 33 MHz</td> <td>⌘ IntelDX4 - 75/25 MHz</td> </tr> <tr> <td>⌘ 105 MB disk preloads</td> <td>⌘ 260 MB disk preloads</td> </tr> <tr> <td></td> <td>⌘ Improved storage door for pen</td> </tr> </tbody> </table>	730T	730TE	⌘ 486SX - 33 MHz	⌘ IntelDX4 - 75/25 MHz	⌘ 105 MB disk preloads	⌘ 260 MB disk preloads		⌘ Improved storage door for pen
730T	730TE										
⌘ 486SX - 33 MHz	⌘ IntelDX4 - 75/25 MHz										
⌘ 105 MB disk preloads	⌘ 260 MB disk preloads										
	⌘ Improved storage door for pen										
Processor	<b>IntelDX4™ 75/25 MHz</b>										
Memory cache	16 KB in DX4 (no L2 cache)										
Coprocessor socket	N/A; standard in IntelDX4										
Diskette drive	Optional 3.5" 1.44 MB (same as ThinkPad 710T and 730T)										
Price (retail USD)	\$ 2,849	\$ 3,499									
Type - model	2524-B01	2524-B0F									
Part number	39H5976	39H5975									
Hard drive - size	Option (required	<b>260 MB PCMCIA</b>									
Hard drive - speed	via PCMCIA disk)	12 ms / 4500 rpm / 16 MB/sec burst transfer rate / 5.7 MB/sec media transfer rate									
Preinstalled software	N/A	IBM DOS 7.0 Windows for Pen Computing									
Avail / withdrawn date	Oct 1995 / July 1997	October 1995 / July 1997									
Memory - std / max	8 / 24 MB										
Mem - sockets empty	Uses a specific Type III PCMCIA slot; this will then permit a Type I or II PCMCIA card in rest of slot										
Memory - type	70 ns / non-parity / 5.0 volt										
Memory - options	4, 8, 16 MB ICs										
Display - type	VGA 640 x 480 monochrome	(External display is 640 x 480 with 16 colors)									
Display - grey scales	16 grey scales	(Simultaneous LCD and CRT display)									
Display - technology	STN Transflective	Transflective: can turn on backlight in dark areas or turn it off in bright areas									
Display - light source	LCD - Backlit										
Display - size (diag)	9.5 inch / 3 to 1 contrast ratio										
Graphics controller	Western Digital WD90C24A / VL-Bus 2.0 local bus / 1 MB DRAM memory										
Keyboard	External (any IBM keyboard is supported; attach to port replicator)										
Mouse/pointing	Electromagnetic pen/digitizer/stylus that realistically simulates the feel of pen-to-paper / untethered / batteryless (a mouse is not supported) / stylus is stored in a compartment on bottom										
Dimensions	10.6 x 8.3 x 1.4"										
Cubic inches	123 inches										
Carrying case	Blk nylon standard (many options also available)										
Color	Black										
Weight (with battery)	3.5 pounds (1 battery); 3.9 pounds (2 batteries)										
Battery - type	Nickel hydride (NiMH)	A false battery pack ships standard if only want to use one battery									
Battery - quantity	Two batteries ship standard / can use one or two batteries										
Batt - life (per battery)	1 battery: 1.65 to 5 hours 2 battery: 3.3 to 10 hours										
Charge time - on / off	N/A / 1.5 hours (unit off or suspend only)										
Architecture	Local memory bus / ISA										
Docking Station	No										
Port replicator	Yes (ships standard / attach to 200 pin connector) Port Replicator includes ① 15 pin external CRT port, ② 9 pin 16550A serial port, ③ 25 pin EPP parallel port, ④ diskette drive connector, ⑤ keyboard port, ⑥ DC port for AC connector										
Modem/serial slot	No (use PCMCIA)										
PCMCIA™ 2.1 slots	<b>3 Type II or 2 Type III as follows:</b> 1st slot: 2 Type II or 1 Type III (but any additional memory must go into this slot; so adding IC DRAM memory will leave 1 Type II slot remaining) 2nd slot: 2 Type II or 1 Type III (260 MB PCMCIA disk in Model B0F is installed here)										
Serial / parallel ports	Yes (on Port Replicator) / Yes (on Port Replicator)										
Security	Power-on password										
Warranty	<b>3 year</b> - ThinkPad EasyServ™ (Optional Overnight Repair Option)										

The ThinkPad 730T requires a bootable operating system with Pen capability. Supported is:

- PenDOS® 2.2 with IBM DOS 7.0  
39H6014 - PCMCIA HDD 260 MB PenDOS preloaded
- Pen for OS/2 1.03 with OS/2® Warp  
39H6017 - PCMCIA HDD 260 MB Pen for OS/2 preloaded
- Windows for Pen Computing® 1.0 with IBM DOS 7.0/Windows 3.11  
Model B0F is preloaded with Windows for Pen Computing
- PenRight!® (available at dealers)

### PCMCIA SLOT CONFIGURATION

Two Type III (10 mm high):



PCMCIA Type III  
260 MB disk in this slot  
(Model B0F)

Quick Charger	66G9540
Car Battery Adapter	66G9545
NiMH Battery (dual)	66G9550
AC Adapter 20 watts	84G0480
PortReplicator	84G0485
External 3.5" 1.44 MB diskette drive	48G8263
Hand Strap	84G0495
Soft Case	84G0490
Battery Case	84G0500

260 MB HDD PCMCIA Type III (Blank)	06H9077
260 MB HDD PCMCIA Type III (Warp for Pen)	39H6017
260 MB HDD PCMCIA Type III (PenDOS)	39H6014
4 MB IC DRAM 70 ns 5v non-parity	92G7236
8 MB IC DRAM 70 ns 5v non-parity	92G7237
16 MB IC DRAM 70 ns 5v non-parity	92G7424

### FEATURES OF THINKPAD 730TE

- Suspend/resume mode
- Battery life indicator
- Non-disruptive battery exchange
- US EPA Energy Star compliant
- 3 year warranty**
- International Warranty Service**
- 24 hour / 7 day telephone, bulletin board, fax, and electronic support**
- IBM warranty/service**
- 30 day money back guarantee**

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

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# IBM ThinkPad 750 - withdrawn

IBM® ThinkPad®:	≧ 750 monochrome	≧ 750Cs passive color	≧ 750C color TFT	≧ 750P convertible pen	≧ Traveling Multimedia preconfigured system
Processor type	All: <b>80486 SL</b> with math co				A preconfigured, multimedia <b>750C</b> ; Available Sept 93; \$ 7,245 ↘
Processor speed	All: <b>33 MHz</b>				
Memory cache	All: 8 KB internal				Included with the IBM Traveling Multimedia: Hardware: - 750C (all features listed on left) - 340MB removable hard disk - 12 MB memory (4 MB std + 8 MB IC DRAM card) - 14.4 Data/Fax modem (PCMCIA) - Dock I (Docking Station) - CD-ROM/XA - double speed and Kodak Photo CD multisession - Dock I Carrying Case
Coprocessor socket	All: N/A (std in 486SL)				
Diskette drive	All: 3.5" 2.88 MB ○				Software: - Windows 3.1 - Asymetrix COMPEL™ (on screen multimedia presentations) - Asymetrix MediaBlitz! (library of media clips) - LapLink™ V (file transfer via cable or modem) - Delrina WinFax PRO (fax software)
Price (retail USD)	\$ 3,199	\$ 3,749	\$ 2,599 ↘	\$ 2,999 ↘	
Type - model	9545-006	9545-008	9545-206	9545-208	The removed diskette drive can be utilized externally via the optional 'FDD External Kit' (includes cable and enclosure; \$135) to the ① Port Replicator Model I, ② Port Replicator Model II, or ③ Dock I Docking Station.
Hard drive - size	<b>170 MB</b> ■	<b>340 MB</b> ■	<b>170 MB</b> ■	<b>340 MB</b> ■	
Hard drive - speed	15 ms ○	14 ms ○	15 ms ○	14 ms ○	Additional video features for all: 1 MB DRAM video memory / Video controller is Western Digital WD90C24 / Accelerator / 16 bit AT bus / Simultaneous LCD & CRT / External VGA is SVGA (to 1024x768)
Avail / withdrawal date	Sept 93 / withd	Sept 94	Nov 93 / withd	Sept 94	
Display - type	VGA mono	■	<b>VGA color</b>	<b>VGA color</b>	F n key functions to instantly change in any appl: ① Fuel gauge ④ Speaker volume ⑦ High intensity text ② Standby mode ⑤ LCD/ext CRT/both ⑧ Power mgmt mode ③ Suspend mode ⑥ Reverse video ⑨ Hibernation mode
Display - grey scales	64 grey scales	■	256 colors 640x480	256 colors 640x480	
Display - technology	STN	■	STN - passive matrix	Thin film transistor	Yes (external SVGA)
Display - light source	LCD - Sidelit	■	LCD - Sidelit	<b>Active matrix</b>	
Display - size (diag)	9.5 inch	■	9.5 inch	10.4 inch	Yes (external SVGA)
Display - contrast ratio	18 to 1	■	20 to 1	100 to 1	
180 degree display tilt	Yes (external SVGA)	■	Yes (external SVGA)	Yes (external SVGA)	ALL 750 MODELS <b>Liftable (pop-up) keyboard to access diskette drive, disk, battery, and memory</b>
Memory - std / max	All: 4 / 20 MB	70 ns	Additional video features for all: 1 MB DRAM video memory / Video controller is Western Digital WD90C24 / Accelerator / 16 bit AT bus / Simultaneous LCD & CRT / External VGA is SVGA (to 1024x768)		
Mem - sockets empty	All: 1 socket	(parity)			
SIMM/ICs available	All: 2, 4, 8, 16 MB	ICs			
Keyboard / # of keys	All: Full size alp/num/ 85				
Keyboard slope	All: Yes (legs pop out)				
Mouse/pointing	All: <b>TrackPoint II</b>				
Ext keyboard support	All: Yes (with option cable)				
Dimensions	11.7 x 8.3 x 1.7"		11.7 x 8.3 x 2.0"	11.7 x 8.3 x 2.0"	
Cubic inches	165 inches		194 inches	194 inches	
Carrying case	Blk nylon (option)		Blk nylon (option)	Blk nylon (option)	
Color	Black		Black	Black	
Weight (with battery)	5.5 pounds		6.2 pounds	6.4 pounds	
Battery - type	Nickel hydride (smart)		Nickel hydride (smart)	Nickel hydride (smart)	
Batt - life (per battery)	5.3 to 12 hours		3.4 to 8 hours	5.1 to 12 hours	
Charge time - on / off	1.5 hrs / 1.5 hrs		2.0 hrs / 1.5 hrs	1.5 hrs / 1.5 hrs	
Architecture (ext port)	All: AT bus (with external port)		Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.		
Docking Station	All: Yes (Dock I and II below)				
Port replicator	All: 2 types (below)				
PCMCIA 2.01 slots	All: <b>2 Type I or 2 Type II or 1 Type III</b>				
Serial / parallel ports	All: Yes (one 9 pin) / Enhanced Parallel Port (EPP) with 2 MB/sec transfer speed (non-DMA)				
Other features	All: BIOS/Easy Set up/Diagnostics in FLASH EEPROM / APM-aware BIOS / Hibernation mode				
Audio support	All: 16 bit audio chip on planar with Mwave audio codec / Internal high fidelity speaker				
Audio in/out jacks	All: Input jack supports microphone / Output jack supports headphone or stereo speakers				
Security	All: Hardware security loop / Power-on password / Supervisor password (privileged access password) for hardware config changes / Hard disk password (HDP) allows use of disk				
Preinstalled software	DOS 6.1, PRODIGY® Online info, demo	DOS 6.1, PRODIGY Online info, demo	DOS 6.1, PRODIGY Online info, demo	DOS 6.1, Windows™ 3.1, PenDOS™ 2.2, Windows for Pen, PRODIGY, Online info, demo	
Warranty	<b>3 year</b> - carry in or EasyServ (opt onsite)	<b>3 year</b> - carry in or EasyServ (opt onsite)	<b>3 year</b> - carry in or EasyServ (opt onsite)	<b>3 year</b> - carry in or EasyServ (opt onsite for \$40 each year; all mod)	

The 700/720 family hard disks, batteries, and docking station are NOT compatible with 750. The 700/720 memory IS compatible with 750

<p><b>Dock I (Docking Station)</b> \$685</p> <p>SCSI-1 controller; two stereo speakers; One full-size 16 bit AT bus slot; 6.0 pounds; One bay (slim high 1") for 3.5" or 5.25" devices Can house removable disk from 360/750/755; Replication of ports on back of 360/750/755; Additional ports: SCSI, audio, speaker, video in, diskette, headphone jack; handle/palm rest;</p> <p><b>Dock II (Docking Station)</b> \$719</p> <p>SCSI-2 Fast controller; two stereo speakers; Two full-size 16 bit AT bus slots; 17.6 pounds; Two 5.25" bays (1" high (SL) and 1.5" high (HH)); Can house removable disk from 360/750/755; Two PCMCIA slots (Type II and III); Many ports including audio, diskette, SCSI; Plug and Play ready</p> <p><b>Port Replicator Model I</b> \$299</p> <p>2 Type I or 2 Type II or 1 Type III PCMCIA slots Provides cable management because all the cables attach to Replicator, not the ThinkPad Replication of Ports: mouse, keyboard, SVGA, parallel port, serial, diskette port, DC power</p> <p><b>Port Replicator Model II</b> \$109</p> <p>Same as Model I except no PCMCIA slots</p>	<p><b>750 MONOCHROME</b></p> <p>Upgradeable to ① monochrome pen enabled screen (same as 750P), or ② 10.4" TFT color</p> <p><b>750Cs DUAL SCAN COLOR</b></p> <p>Dual scan passive matrix color screen</p> <p><b>750C ACTIVE MATRIX COLOR</b></p> <p>Largest 10.4" active matrix color screen</p> <p><b>750P CONVERTIBLE PEN</b></p> <p>Same display as the 750 monochrome. Can be used in normal upright position or folded down into a position suitable for writing via the standard untethered stylus.</p> <p><b>Cellular Digital Packet Data (CDPD) Mobile Communications Module</b></p> <p>Provides transmission of analog and digital data using a cellular telephone. Supported on 750, 750Cs, 750C (not 750P). High speed 14.4 bps data/fax modem, AMPS cellular, and CDPD transceiver; wire or wireless; available April 1994; \$1,999</p> <p>Many other options available from IBM</p>	<p><b>FEATURES OF ALL 750 FAMILY</b></p> <p><b>3 year international warranty</b></p> <p><b>16 bit audio chip on planar</b> (Mwave™) Headphone (out)/microphone (in) audio jacks</p> <p><b>Removable and upgradeable hard disks</b></p> <p><b>Removable diskette drive</b></p> <p><b>Pressure activated TrackPoint II</b></p> <p>Std intelligent battery with built in processor for accurate monitoring on screen Discharge battery via mouse click Quick Charger holds 2 batt; discharge button Non-disruptive battery exchange Standby / suspend / hibernation modes Hibernation mode saves memory to the hard disk and shuts system off Selectable boot US EPA Energy Star compliant Personalized nameplate in molded indentation Coupon book with \$4,000 in savings</p> <p><b>IBM or dealer warranty/service</b></p> <p><b>30 day money back guarantee</b></p> <p><b>24 hour / 7 day fax support</b></p> <p><b>24 hour / 7 day bulletin board support</b></p> <p><b>24 hour / 7 day telephone support</b></p>
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ThinkPad EasyServ™: customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back within 4 business days (no shipping charges, most shipping is overnight). ■ = Upgradeable; ○ = Removable; ↘ = Price decrease effective October 17, 1994

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# IBM ThinkPad 755 - withdrawn

IBM® ThinkPad®:	≧ 755Cs dual scan color			≧ 755C TFT color			≧ Traveling Multimedia preconfigured system						
Processor type	<b>80486 DX2</b> □ to DX4			<b>IntelDX4</b>			<b>80486 DX2</b> □ to DX4			<b>IntelDX4</b>			A preconfigured, multimedia <b>755C</b> ; Available June 94; Withdrawn Dec 95; Part #2337289 \$ 6,399 *
Processor speed	<b>50/25 MHz</b> 3.3 volt			<b>75/25 MHz</b> 3.3 volt			<b>50/25 MHz</b> 3.3 volt			<b>75/25 MHz</b> 3.3 volt			
Memory cache	8 KB internal (no L2)			16 KB internal (no L2)			8 KB internal (no L2)			16 KB internal (no L2)			
Coprocessor socket	N/A (std in 486DX2)			N/A (std in 486DX4)			N/A (std in 486DX2)			N/A (std in 486DX4)			
Removable diskette	3.5" 1.44 MB ○			3.5" 1.44 MB ○			3.5" 1.44 MB ○			3.5" 1.44 MB ○			
Price (retail USD)	\$3,399	\$3,899	\$4,299	\$3,899	\$4,399	\$4,799	\$2,799	\$3,099	\$3,449	\$3,399	\$3,699	\$3,999	
Type - model	all <b>9545</b>			K0C K0E K0G			F0C F0E F0G			L0C L0E L0G			Included with the IBM Traveling Multimedia:  Hardware: - 755C Model L0G - DX4 75/25 with all features listed on left - 540 MB removable hard disk - 8 MB memory (4 MB std + 4 MB DIMM on Memory Adapter) - 14.4 Data/Fax modem (PCMCIA) - Dock I (Docking Station) - CD-ROM/XA - double speed and Kodak Photo CD multisession - Dock I Carrying Case - Interlink® ProPoint™  Software - same as 755C plus: - Asymetrix® COMPEL™ - Asymetrix MediaBlitz! (library of media clips) - LapLink™ V - Picture Factory™ - TalkWorks™ - Sound Effects Library - ClickArt™ 2000
Removable disk - size	170 □ <b>340</b> □ <b>540</b> □			<b>170</b> □ <b>340</b> □ <b>540</b> □			<b>170</b> □ <b>340</b> □ <b>540</b> □			<b>170</b> □ <b>340</b> □ <b>540</b> □			
Hard disk - speed ms	15 ○ 14 ○ 14 ○			15 ○ 14 ○ 14 ○			15 ○ 14 ○ 14 ○			15 ○ 14 ○ 14 ○			
Avail / withdrawn date	Jun 94 / May 95			Jun 94 / May 95			Jun 94 / Dec 95			Jun 94 / Dec 95			
Display - type	<b>VGA color</b>			<b>VGA color</b>			<b>VGA color</b>			<b>VGA color</b>			
Display - colors	256 colors 640x480 (palette of 4096 colors)			256 colors 640x480 (palette of 262,144 colors)			256 colors 640x480 (palette of 262,144 colors)			256 colors 640x480 (palette of 262,144 colors)			
Display - technology	STN - passive matrix			STN - passive matrix			STN - passive matrix			STN - passive matrix			
Display - light source	LCD - Sidelit			LCD - Sidelit			LCD - Backlit			LCD - Backlit			
Display - size (diag)	9.5 inch <b>Dual scan</b>			9.5 inch <b>Dual scan</b>			10.4 inch			10.4 inch			
Display - contrast ratio	20 to 1			20 to 1			100 to 1			100 to 1			
Graphics - controller	All: WD90C24A or WD90C24A2 with 1 MB DRAM / Graphics WinMarks 4.0 = 4.3												
Graphics - vendor	All: Western Digital / External SVGA to 1024 x 768 w/ 256 colors												
Graph - arch/data path	All: VL-Bus / 32 bit VESA local bus / Simultaneous LCD and CRT / 180 degree tilt												
Memory - std / max	All: 4 / 36 MB 70 ns <i>Memory upgraded via ① 1 open socket for IC memory card for 20 MB max or ② new DIMM technology for max of 36 MB with 4 or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.</i>												
Mem - sockets empty	All: 1 socket (parity)												
Mem-options available	All: 2, 4, 8, 16, 32 MB ICs or 4, 16 MB DIMMs that works on optional Memory Module Adapter												
Keyboard / # of keys	All: Full size alp/num/ 85			Fn + F2 = Fuel gauge			Fn + F7 = Ext display/LCD						
Fn key functions	All: 8 (in any appl)			Fn + F3 = Standby			Fn + F8, F9, F10 = (reserved)						
Keyboard slope	All: Yes (legs pop out)			Fn + F4 = Suspend			Fn + F11 = Power mgmt						
Mouse/pointing	All: <b>TrackPoint II™</b>			Fn + F5 = Audio decrease			Fn + F12 = Hibernation mode						
Ext keyboard support	All: Yes (with option cable)			Fn + F6 = Audio increase									
Dimensions	All: 11.7 x 8.3 x 2.0" (194 cubic inches) <i>Easy-Setup is entered by holding F1 when turning on.</i>												
Color	All: Black												
Weight (with battery)	6.1 pounds			6.4 pounds			Intelligent battery with a processor to allow accurate monitoring of battery condition and accurate fuel gauge.						
Battery - type	Nickel hydride (smart)			Nickel hydride (smart)									
Batt - life (per battery)	4 to 8 hours			3.1 to 8 hours									
Charge time - on / off	2 hrs / 1.5 hrs			2.0 hrs / 1.5 hrs									
Architecture	All: AT bus (ISA) <i>Diskette drive can be removed ① to reduce weight, ② to insert cellular modem (CDPD), ③ to insert TV Tuner (for on screen TV and VCR playback), or ④ to add other third party options.</i>												
Docking Station	All: <b>Yes</b> (Dock I and II below)												
Port replicator	All: <b>Yes</b> (2 types below)												
PCMCIA™ 2.1 slots	All: <b>2 Type I or 2 Type II or 1 Type III</b>												
Serial / parallel ports	All: Yes (one 9 pin; 16550A) / Enhanced Parallel Port (EPP); non-DMA												
Other features	All: APM-aware BIOS / Hibernation mode / Wallmount A/C adapter (40 watts) / Selectable boot												
Audio support	All: 16 bit audio chip on planar / Crystal Semiconductor CS4248 / Internal speaker and microphone												
Audio in/out jacks	All: Input jack supports microphone / Output jack supports headphone or stereo speakers												
Security	All: Power-on password / Hard disk password / Supervisor password (for hardware config changes) / Hardware security loop / PCMCIA card lock / (Security Base optional)												
Preinstalled software	All: IBM DOS 6.3, Windows 3.1, Demo, and 8 applications: ① Lotus® cc:Mail, e-mail for Advantis® network, ② Lotus Organizer 1.12, ③ Lotus ScreenCam 1.0, ④ Official Airline Guide Flight Disk® 1.0, ⑤ Triton CoSessions™ Host, ⑥ PRODIGY®, ⑦ America Online™, ⑧ SofNet FaxWorks™ 3.0												
Warranty	All: <b>3 year</b> - carry in or EasyServ (opt onsite \$40 yr) <i>The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure; \$135) to the Port Replicator Model I and II and Dock I.</i>												

<b>Dock I (Docking Station)</b> \$685
SCSI-1 controller; two stereo speakers; One full-size 16 bit AT bus slot; 6.0 pounds; One bay (slim high 1") for 3.5" or 5.25" devices Can house removable disk from 360/750/755; Replication of ports on back of 360/750/755; Additional ports: SCSI, audio, speaker, video in, diskette, headphone jack; handle/palm rest;
<b>Dock II (Docking Station)</b> \$719
SCSI-2 Fast controller; two stereo speakers; Two full-size 16 bit AT bus slots; 17.6 pounds; Two 5.25" bays (1" high (SL) and 1.5" high HH); Two PCMCIA slots (Type II and III); Many ports including audio, diskette, SCSI; Plug and Play ready
<b>Port Replicator Model I</b> \$299
2 Type I or 2 Type II or 1 Type III PCMCIA slots Provides cable management because all the cables attach to Replicator, not the ThinkPad Replication of Ports: mouse, keyboard, SVGA, parallel port, serial, diskette port, DC power
<b>Port Replicator Model II</b> \$109
Same as Model I except <i>no</i> PCMCIA slots

The ThinkPad 755 family supports all of the options of the ThinkPad 750 family.

Compatible in 360, 750, and 755 family:

- Hard disks (170, 250, 340, 540, 810 MB)
- Batteries (see below)
- Dock I and Dock II
- Port Replicator I
- Port Replicator II
- CDPD Mobile Module (not pen models)
- Diskette drive
- AC Adapter
- Quick Charger

ThinkPad IC memory for 700, 720, 750, and 755 are all compatible.

The 700 and 720 family hard disks, batteries, and docking station are NOT compatible with 750 or 755 family.

Battery compatibility:

	360	750	755
84G2392 360 NiMH battery	Y	N	N
66G2846 750 NiMH battery	Y	Y	Y

Y = battery supported; N = not supported

Winstone 94 for 755C DX4 = 37.8

**Cellular Digital Packet Data (CDPD) Mobile Communications Module** \$1,999

Provides transmission of analog and digital data using a cellular telephone. Supported on all 360/750/755 (except 750P). 14.4 bps data/fax modem, AMPS cellular, and CDPD transceiver; wire or wireless.

**FEATURES OF ALL 750 and 755 FAMILY**

- Discharge battery via mouse click
- Quick Charger holds 2 batt; discharge button
- Battery life indicator
- Non-disruptive battery exchange
- Standby / suspend / hibernation modes
- EasyPlaying (PC Card Director™) preinstalled and included on Utility Diskette (755 only)
- US EPA Energy Star compliant
- Personalized nameplate in molded indentation
- International travelers warranty**
- IBM or dealer warranty/service**
- 30 day money back guarantee**
- 24 hour / 7 day fax support**
- 24 hour / 7 day bulletin board support**
- 24 hour / 7 day telephone support**

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.

□ = Upgradeable    ○ = Removable    \* = Price decrease effective May 11, 1995

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No warranties are expressed or implied in this summary  
≧ Withdrawn from marketing

(755THINK) Compiled by Roger Dodson, IBM. December 1995

# IBM ThinkPad 755CSE / CE - withdrawn

<b>IBM® ThinkPad®:</b>	≈< <b>755CSE</b> dual scan color	≈> <b>755CE</b> TFT color	<b>ThinkPad 755CSE / CE strengths:</b> ⇨ <b>DSP with audio, data/fax modem, telephony</b> ⇨ <b>Infrared communication</b> ⇨ <b>Color: 10.4 dual scan or 10.4 Black Matrix TFT</b> ⇨ <b>Removable disk and diskette</b> ⇨ <b>Liftable keyboard and TrackPoint III</b> ⇨ <b>Upgrade to Pentium with L2 cache</b>			
Processor type	<b>IntelDX4</b> / no L2 cache					
Processor speed	<b>100/33 MHz</b> / 3.3 volt					
Processor / L2 upgrade	Pentium 75/50 MHz which includes L2 cache of 256 KB / write-through / direct mapped / 12 ns / soldered					
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette					
Removable CD-ROM	Supports PCMCIA Cartridge, TV Tuner, or CDPD in diskette bay Not supported (Diskette bay is called UltraBay)					
Price (retail USD)	\$ 3,499 ↘	\$ 3,849 ↘	\$ 4,299 ↘	\$ 4,299 ↘	\$ 4,649 ↘	\$ 5,099 ↘
Type - model	9545-6BC	9545-6BD	9545-6BE	9545-7BC	9545-7BD	9545-7BE
Removable disk - size	<b>340 MB</b> ▣	<b>540 MB</b> ▣	<b>810 MB</b>	<b>340 MB</b> ▣	<b>540 MB</b> ▣	<b>810 MB</b>
Removable disk - spd	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○	14 ms ○
Available date	Nov 1994	Nov 1994	Nov 1994	Oct 1994	Oct 1994	Oct 1994
Display - type	<b>VGA color</b> / 640 x 480		<b>VGA color</b> / 640 x 480			
Display - colors	256 simultaneous colors		<b>65,536 simultaneous colors</b>			
Display - technology	<b>Dual scan</b>		<b>Black Matrix TFT - active matrix</b>			
Display - diagonal size	<b>10.4 inch</b> / 20 to 1 contrast ratio		<b>10.4 inch</b> / 100 to 1 contrast ratio			
Graphics - controller	WD90C24A2 with 1 MB DRAM					
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)					
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt					
Memory - std / max	8 MB / 40 MB 70 ns / <b>parity</b> / 5 volt		Memory upgraded via			
Mem - sockets empty	1 socket		① 1 open socket for IC memory card for 20 MB max or			
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter		② new DIMM technology for max of 40 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.			
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)					
Keyboard slope	Yes (legs pop out)					
Mouse/pointing	<b>TrackPoint III™</b>					
Ext keyboard support	Yes (with option cable)					
Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)		<b>ALL 755CSE / CE MODELS</b>			
Color	Black					
Weight (with battery)	6.4 pounds		<b>Liftable (pop-up) keyboard to access and remove diskette drive, disk, battery, and memory</b>			
Battery - type	Nickel hydride (NiMH) / intelligent					
Battery - life	3.3 to 10 hours					
Charge time - on / off	1.7 hrs / 1.2 hrs					
Architecture	AT bus (ISA)		Intelligent battery with a processor to allow accurate monitoring of battery condition and accurate fuel gauge.			
Docking Station	Dock I and II					
Port replicator	Port Replicator I and II					
PCMCIA™ 2.1 slots	<b>2 Type I or 2 Type II or 1 Type III</b>					
Serial / parallel ports	One 9 pin; 16550A / Enhanced Parallel Port (EPP and ECP)					
Other features	APM-aware BIOS / Wallmount A/C adapter (40 watts) / Selectable boot					
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>					
Data/fax modem	<b>Data/fax modem function via DSP</b>					
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b>					
Audio in/out jacks	Input jack / output jack supports					
Telephone	Telephone / answering machine / full duplex speakerphone					
Infrared ports	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>					
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock					
Preinstalled software	IBM DOS 6.3, Windows™ 3.11, OS/2 Warp 3.0, and all apps listed to right:					
Warranty	<b>3 year</b> - carry in or EasyServ (optional onsite \$40 yr)					

Integrated Mwave™ DSP provides:

- Data modem function**
  - V.22bis (2400 bps)
  - V.32 (9600 bps)
  - V.32bis (14.4 Kbps)
- Fax modem function**
  - G3 fax send/receive (14.4 Kbps)
- Audio function**
  - Stereo waveform record and playback
  - Qsound™ support (3-D effect)
  - 32 voice MIDI wave table synthesizer
  - SoundBlaster™ support
  - Text to speech (via Monologue)
- Telephone function**
  - Full telephone (can use opt headset)
  - Telephone answering machine
  - Full duplex speakerphone

⇨ **Software upgradeable** (28.8 and DSV2)

**PREINSTALLED APPLICATIONS**

- IBM DOS 6.3
- Windows 3.11
- OS/2 Warp 3.0 (dual boot) w/ BonusPak
- CompuServe Info Mgr™, IBM Works
- Internet Connection, Person to Person
- HyperACCESS Lite™, Video IN
- FaxWorks™, MM Viewer™
- IBM PC Card Director™ for PCMCIA
- IBM ThinkPad Demo (except 340 MB mod)
- Online Users Guide
- ThinkPad features

1. Lotus® cc:Mail™, e-mail for Advantis® network
2. Lotus Organizer™ 1.12
3. Lotus ScreenCam™ 1.0
4. Triton CoSession™ Host
5. PRODIGY®; 6. America Online®
7. SofNet FaxWorks™ Voice™ 3.0
8. Video For Windows™ 1.1 Runtime
9. Monologue (text to speech)
10. Puma TranXit™ (infrared function)
11. Taxi™
12. AlphaNet™ FollowFax™
13. SEDONA™ REPRINT™
14. COMPEL™ Personal Edition
15. Audiofile® TalkWorks™
16. Reuters™ Money® Network
17. Mwave Sampler (CD)

The removed diskette drive can be used externally via the optional 'FDD External Kit' (includes cable and enclosure) to the Port Replicator Model I and II and Dock I and II.

Diskette drive can be removed (from UltraBay™)

- ① to reduce weight
- ② to insert cellular modem (CDPD)
- ③ to insert TV Tuner (for on screen TV and VCR playback)
- ④ to insert PCMCIA Cartridge (Type I, II, or III)
- ⑤ to insert 2.88 MB diskette
- ⑥ to add other third party options

Options for 755CSE / CE:

- NiMH Battery Pack II 85G1513
- 760 NiMH Battery (black) 41H9720
- TV Tuner (CE only) 66G3689
- FDD External Attachment Kit 66G3618
- Memory Module Adapter 84G2151
- 4 MB SO DIMM parity 92G7253
- 8 MB SO DIMM parity 92G7255
- 16 MB SO DIMM parity 92G7257

Compatible in all ThinkPad 360 family, 750 family, 755 family:

- Disks: 170 MB IDE 66G2847/9
- 250 MB IDE 84G2391
- 340 MB IDE 66G2849
- 540 MB IDE 84G2150
- 810 MB IDE 84G8250
- Dock I (1 slot / 1 bay) 3545001
- Dock II (2 slot / 2 bay) 3546001
- Port Replicator I (w/ PCMCIA) 66G3510
- Port Replicator II 66G3520
- 1.44 MB diskette std in newer
- 2.88 MB diskette 66G0108

Options for 755CSE / CE:

- PCMCIA Cartridge 84G1301
- **Pentium/L2 upgrade 85G8609**

ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible

**FEATURES OF 755CSE / CE MODELS**

- Discharge battery via mouse click
- Battery life indicator
- Non-disruptive battery exchange
- Standby, suspend, and hibernation modes
- US EPA Energy Star compliant
- Personalized nameplate in molded indentation
- Personalization screen at startup
- SelectaSystem™ capability to select operating system choice

**3 year warranty**  
**International Warranty Service**  
**24 hour / 7 day telephone, bulletin board, fax, and electronic support**  
**IBM or dealer warranty/service**  
**Online Housecall (remote diagnostics)**  
**30 day money back guarantee**

≈< Withdrawn from marketing effective December 1995

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.

□ = Upgradeable ○ = Removable ↘. Price decrease effective June 20, 1995

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 No warranties are expressed or implied in this summary (755E) Compiled by Roger Dodson, IBM. December 1995

# IBM ThinkPad 755CX - withdrawn

<b>IBM® ThinkPad®:</b>	≈ 755CX No DSP - 640 x 480	≈ 755CX DSP - 800 x 600	<b>Same as ThinkPad 755CE except includes:</b>		
Processor type	<b>Pentium® 75/50 MHz</b>		▷ Pentium 75/50 MHz ▷ 256 KB L2 cache ▷ SVGA 800 x 600 LCD (on some models) ▷ Non-parity memory ▷ Lithium ion battery (on two models) ▷ DOS 7.0 (instead of DOS 6.3) and Mind Path Pro		
Coprocessor socket	N/A (standard in Pentium)				
L2 cache	256 KB / write-through / direct mapped / 12 ns / soldered				
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette				
Removable CD-ROM	Not supported (Diskette bay is called UltraBay™)				
Price (retail USD)	\$ 3,749 ↘	\$ 4,149 ↘	\$ 4,849	\$ 5,249	\$ 5,699
Type - model	9545-SBJ	9545-SBK	9545-HBD	9545-HBE	9545-HBL
Part number	84G6381	85G1669	85G8555	85G8524	85G7518
Removable disk - size	540 MB □ ○	810 MB □ ○	540 MB □	810 MB □	1.2 GB ○
Removable disk - spd	14 ms ○	14 ms ○	14 ms ○	14 ms ○	12 ms
Avail / withdrawn date	Jun 95 / Jun 96	Jun 95 / Jun 96	May 1995	May 1995	Sept 95 / Jun 96
Display - type	<b>VGA color / 640 x 480</b>		<b>SVGA color / 800 x 600</b>		
Display - colors	<b>65,536 simultaneous colors</b>				
Display - technology	<b>Black Matrix TFT - active matrix</b>				
Display - diagonal size	<b>10.4 inch / 100 to 1 contrast ratio</b>		<b>10.4 inch / 110 to 1 contrast ratio</b>		
Graphics - controller	WD90C24A (Rev C) with 1 MB DRAM				
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)				
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt				
Memory - std / max	8 MB / 40 MB 70 ns / non-parity / 5 volt		Memory upgraded via		
Mem - sockets empty	1 socket (parity memory supported but w/o parity)		① 1 open socket for IC memory card for 40 MB max or		
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter		② new DIMM technology for max of 40 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.		
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)				
Keyboard slope	Yes (legs pop out)				
Mouse/pointing	<b>TrackPoint III™</b>				
Ext keyboard support	Yes (with option cable)				
Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)				
Weight (with battery)	6.1 pounds				
Battery - type	<b>NiMH/intelligent</b>		<b>Lithium ion/intelligent</b>		
Battery - life	2.6 to 8 hours Supports optional		3 to 9 hours Supports optional		
Charge time - on / off	1.7 hrs / 1.2 hrs Li-Ion battery		2-2.5 hrs / 1.5-2 hrs NiMH battery		
Architecture	AT bus (ISA)		Intelligent battery with a processor to allow accurate monitoring of battery condition and accurate fuel gauge.		
Docking Station	Dock I and II				
Port replicator	Port Replicator I and II				
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III				
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot				
Video function	None		None		
DSP function	None (but can order DSP upgrade)		<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>		
Data/fax modem	None (but can order DSP upgrade)		<b>Data/fax modem function via DSP</b>		
Audio support	None (but can order DSP upgrade)		<b>16 bit audio chip on planar with Mwave DSP</b>		
Audio in/out jacks	None (but can order DSP upgrade)		<b>Internal speaker (with dial volume control) and internal microphone</b>		
Telephone	None (but can order DSP upgrade)		Input jack supports microphone / Output jack supports headphone/speakers		
Infrared ports	<b>Infrared ports (front and back) / IRDA compatible / up to 115 kbs</b>		Telephone (w/ opt headset) / answering machine / full duplex speakerphone		
Security	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / locking device keyhole (Kensington™ lock) / PCMCIA card lock				
Preinstalled software	IBM DOS 7.0, Windows™ 3.11, OS/2 Warp Version 3 and all apps listed to right:				
Warranty	3 year - ThinkPad EasyServ (optional Overnight Repair Service) or carry-in				
Upgradeable or Integrated Mwave™ DSP provides:	Compatible in all ThinkPad 360 family, 750 family, 755 family:				
① <b>Data modem function</b>	- V.22bis (2400 bps)		66G2847		
	- V.32 (9600 bps)		84G2391		
	- V.32bis (14.4 Kbps)		66G2849		
② <b>Fax modem function</b>	- G3 fax send/receive (14.4 Kbps)		84G2150		
③ <b>Audio function</b>	- Stereo waveform record and playback		84G8250		
	- Qsound™ support (3-D effect)		85G8562		
	- 32 voice MIDI wave table synthesizer		3545001		
	- SoundBlaster™ support		3546001		
	- Text to speech (via Monologue)		66G3510		
④ <b>Telephone function</b>	- Full telephone (can use opt headset)		66G3520		
	- Telephone answering machine		std in newer		
	- Full duplex speakerphone		66G0108		
☐ <b>Software upgradeable</b> (to 28.8 and DSVD)					
Options for 755CX:	- PCMCIA Cartridge		84G1301		
	- FDD External Attachment Kit		66G3618		
	- CDPD Communications Module		71G2560		
	- Mwave DSP Upgrade		2420801		
Easy-Setup is entered by holding F1 when turning on.	ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible				
	<b>ThinkPad 755CX supported batteries:</b> <ul style="list-style-type: none"> <li>- NiMH Battery Pack II 85G1513</li> <li>- Lithium Ion 85G8561</li> <li>- Li-Ion Battery Pack II 29H9329</li> <li>- Travel Quick Charger 85G1522 (for NiMH or Li-Ion)</li> </ul>				
	<b>FEATURES OF 755CX MODELS</b> <ul style="list-style-type: none"> <li>Discharge battery via mouse click</li> <li>Battery life indicator</li> <li>Non-disruptive battery exchange</li> <li>Standby, suspend, and hibernation modes</li> <li>US EPA Energy Star compliant</li> <li>Personalized nameplate in molded indentation</li> <li>Personalization screen at startup</li> <li><b>3 year warranty</b></li> <li><b>International Warranty Service</b></li> <li><b>24 hour / 7 day telephone, bulletin board, fax, and electronic support</b></li> <li><b>IBM or dealer warranty/service</b></li> <li><b>Online Housecall (remote diagnostics)</b></li> <li><b>30 day money back guarantee</b></li> </ul>				

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.

☐ = Upgradeable ○ = Removable ↘ Price decrease effective November 7, 1995  
 ≈ = Withdrawn from marketing effective June 1996

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 No warranties are expressed or implied in this summary  
 (755CX) Compiled by Roger Dodson, IBM. June 1996

# IBM ThinkPad 755CV - withdrawn

<b>IBM® ThinkPad®:</b>	≈ <b>755CV</b>	≈ <b>755CV</b>	<b>Same as ThinkPad 755CE except includes:</b> ⇨ <b>Overhead projector LCD</b> ⇨ <b>Supports optional lithium ion battery</b> ⇨ <b>Mind Path® Remote Control IR55 F/X and software</b>	
	Projector LCD - DX4	Projector LCD - Pentium		
Processor type	<b>IntelDX4™ 100/33 MHz</b>	<b>Pentium® 75/50 MHz</b>	Integrated Mwave™ DSP provides: ① <b>Data modem function</b> - V.22bis (2400 bps) - V.32 (9600 bps) - V.32bis (14.4 Kbps) ② <b>Fax modem function</b> - G3 fax send/receive (14.4 Kbps) ③ <b>Audio function</b> - Stereo waveform record and playback - Qsound™ support (3-D effect) - 32 voice MIDI wave table synthesizer - SoundBlaster™ support - Text to speech (via Monologue) ④ <b>Telephone function</b> - Full telephone (can use opt headset) - Telephone answering machine - Full duplex speakerphone ⇨ <b>Software upgradeable</b> (to 28.8 & DSVD)	
L2 cache	None	256 KB write-through / 12ns		
Processor / L2 upgrade	to Pentium 75/50 MHz which includes 256 KB L2 cache	direct mapped / soldered 64 bit to L2 / 32 bit to mem		
Removable diskette	Internal 3.5" 1.44 MB m / supports internal 2.88 MB diskette	Supports PCMCIA Cartridge, TV Tuner, or CDPD in diskette bay		
Removable CD-ROM	Not supported (Diskette bay is called UltraBay™)			
Price				
Type-model / part	9545-8BJ	9545-EBK/9545EBK		9545-EBL /9545EBL
Removable disk - size	<b>540 MB</b> □	<b>810 MB</b> □		<b>1.2 GB</b> □
Removable disk - spd	14 ms ○	14 ms ○		12 ms ○
Avail / withdrawn date	May 95 / Jun 96	Sept 95 / Oct 96		Sept 95 / Oct 96
Display - type	<b>VGA color / 640 x 480</b>			
Display - colors	<b>65,536 simultaneous colors</b>			
Display - technology	<b>TFT - active matrix</b>			
Display - diagonal size	<b>10.4 inch / 100 to 1 contrast ratio</b>			
Display - projector	<b>Overhead projector LCD by removing back (includes Stand and Strap)</b>			
Graphics - controller	WD90C24A2 with 1 MB DRAM			
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)			
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt			
Memory - std / max	8 MB / 40 MB 70 ns / parity	non-parity	Memory upgraded via	
Mem - sockets empty	1 socket / 5 volt		① 1 open socket for IC mem-	
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter			
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)			
Keyboard slope	Yes (legs pop out)	Includes Mind Path™		
Mouse/pointing	<b>TrackPoint III™</b>	Remote Control		
Ext keyboard support	Yes (with option cable)	IR55 F/X		
Dimensions	11.7 x 8.3 x 1.96" (190 cubic inches)			
Color	Black			
Weight (with battery)	6.6 pounds			
Battery - type	Nickel hydride (NiMH) / intelligent			
Battery - life	3.3 to 10 hours	2.6 to 8 hours		
Charge time - on / off	1.7 hrs / 1.2 hrs	<b>all support optional Lithium Ion</b> (see below)		
Architecture	AT bus (ISA)			
Docking Station	Dock I and II			
Port replicator	Port Replicator I and II			
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III			
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot			
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>			
Data/fax modem	<b>Data/fax modem function via DSP</b>			
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b>			
Audio in/out jacks	<b>Internal speaker (with dial volume control) and internal microphone</b>			
Telephone	Input jack / output jack			
Infrared ports	Telephone (w/ opt headset) / answering machine / full duplex speakerphone			
Security	<b>Infrared ports (front and back) / IRDA compatible / up to 115 kbs</b>			
Preinstalled software	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / locking device keyhole (Kensington™)			
Warranty	MicroSaver™ cable lock / PCMCIA card lock			
Ships standard w/ <b>Mind Path™ Remote Control</b>	IBM DOS 7.0, Windows™ 3.11, OS/2 Warp Ver 3, and all appls listed to right:			
- Wireless, hand held remote control	<b>3 year - ThinkPad EasyServ</b> (optional Overnight Repair Option) or carry-in			
- Uses infrared to communicate up to 45 feet away				
- Includes 5 buttons for instant effects				
- Permits full control of mouse				
Includes <b>Mind Path Presentation F/X software</b>				
- Allows 20 real-time special effects				
- Includes zoom, telestrator, spotlight, magnify, and others				
- Works with all Windows applications				
Easy-Setup by holding F1 when turning on				
ThinkPad 755CV supported batteries:				
- NiMH Battery Pack II	85G1513			
- Lithium Ion	85G8561			
- Li-Ion Battery Pack II (Pentium only)	29H9329			
ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible.				
Compatible in all ThinkPad 360 family, 750 family, 755 family:				
- Disks:	170 MB IDE	66G2847/9		
	250 MB IDE	84G2391		
	340 MB IDE	66G2849		
	540 MB IDE	84G2150		
	810 MB IDE	84G8250		
	1.2 GB IDE	85G8562		
- Dock I (1 slot / 1 bay)		3545001		
- Dock II (2 slot / 2 bay)		3546001		
- Port Replicator I (w/ PCMCIA)		66G3510		
- Port Replicator II		66G3520		
- 1.44 MB diskette	std in newer			
- 2.88 MB diskette		66G0108		
Options for 755CV:				
- PCMCIA Cartridge		84G1301		
- TV Tuner		66G3689		
- FDD External Attachment Kit		66G3618		
- <b>Pentium/L2 upgrade</b> (DX4 mod)		<b>85G8609</b>		
- Cooling Fan Kit (for overhead)		29H8000		
<b>FEATURES OF 755CV MODELS</b>				
Discharge battery via mouse click				
Battery life indicator				
Non-disruptive battery exchange				
Standby, suspend, and hibernation modes				
US EPA Energy Star compliant				
Personalized nameplate in molded indentation				
Personalization screen at startup				
<b>International Warranty Service</b>				
<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b>				
<b>(http://www.pc.ibm.com) support</b>				
<b>IBM or dealer warranty/service</b>				
<b>Online Housecall (remote diagnostics)</b>				

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.

□ = Upgradeable ○ = Removable; ≈ = Withdrawn from marketing

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 No warranties are expressed or implied in this summary  
 (755CV) Compiled by Roger Dodson, IBM. October 1996

# IBM ThinkPad 755CD - withdrawn

<b>IBM® ThinkPad®:</b>		≈ <b>755CD</b>		≈ <b>755CD</b>		<b>ThinkPad 755CD strengths over 755CE / CSE:</b>
		TFT color - DX4		TFT color - Pentium		
Processor type	<b>Intel®DX4™ 100/33 MHz</b>		<b>Pentium® 75/50 MHz</b>		<ul style="list-style-type: none"> <li>⊕ <b>Mobile multimedia - exceeds MPC2 standard</b></li> <li>⊕ <b>Removable, double speed, 5.25" CD-ROM</b></li> <li>⊕ <b>Video card (acceleration, composite in/out)</b></li> <li>⊕ <b>Joystick/MIDI port</b></li> <li>⊕ <b>Stereo speakers</b></li> </ul>	
L2 cache	None		256 KB write-through / 12 ns			
Processor / L2 upgrade	to Pentium 75/50 MHz which includes 256 KB L2 cache		direct mapped / soldered			
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette		64 bit to L2 / 32 bit to mem			
Removable CD-ROM	Supports PCMCIA Cartridge in diskette bay <b>5.25" CD-ROM ○ / double speed / multi-session / XA / front loaded / IDE</b>					The left bay (UltraBay™) supports either the standard diskette drive or standard CD-ROM. CD-ROM ships in this bay from factory.
Price						<b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, battery, and memory</b>
Type - model	9545-9BD	9545-9BE	9545-FBK	9545-FBL		
Removable disk - size	<b>540 MB</b> / 14 ms	<b>810 MB</b> / 14 ms	<b>810 MB</b> / 14 ms	<b>1.2 GB</b> / 12 ms		
Avail / withdrawn date	Oct 1994 / Jun 96	Oct 94 / Jun 96	Sept 95 / Jun 96	Sept 95 / Jun 96		
Display - type	<b>VGA color / 640 x 480 / 65,536 simultaneous colors</b>					Integrated Mwave™ DSP provides:
Display - technology	<b>Black Matrix TFT - active matrix</b>					
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio					
Graphics - controller	WD90C24A2 with 1 MB DRAM					<ul style="list-style-type: none"> <li>① <b>Data modem function</b></li> <li>- V.22bis, V.32, V.32bis (14.4 Kbps)</li> <li>② <b>Fax modem function</b></li> <li>- G3 fax send/receive (14.4 Kbps)</li> <li>③ <b>Audio function</b></li> <li>- Stereo waveform record and playback</li> <li>- Qsound support (3-D effect)</li> <li>- 32 voice MIDI wave table synthesizer</li> <li>- SoundBlaster™ support; Text to speech</li> <li>④ <b>Telephone function</b></li> <li>- Full telephone (can use opt headset)</li> <li>- Telephone answering machine</li> <li>- Full duplex speakerphone</li> </ul>
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)					
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt					
Memory - std / max	8 MB / 40 MB 70 ns / parity		non-parity			<ul style="list-style-type: none"> <li>⊕ <b>Software upgradeable (to 28.8 &amp; DSVD)</b></li> </ul>
Mem - sockets empty	1 socket / 5 volt					
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter					
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)					<ul style="list-style-type: none"> <li>① 1 open socket for IC memory card for 20 MB max or</li> <li>② new DIMM technology for max of 40 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.</li> </ul>
Keyboard slope	Yes (legs pop out)					
Mouse/pointing	<b>TrackPoint III™</b>					
Ext keyboard support	Yes (with option cable)					
Dimensions	11.7 x 8.3 x 2.2" (214 cubic inches)					
Color	Black					
Weight(w/batt/CD-ROM)	7.3 pounds					
Battery - type	Nickel hydride (NiMH) / intelligent		Nickel hydride (NiMH) / intelligent		<b>Supports optional Li-Ion</b>	<b>PREINSTALLED APPLICATIONS</b>
Battery - life	3 to 9 hours		2.5 to 8 hours			
Charge time - on / off	1.7 hrs / 1.2 hrs		1.7 hrs / 1.2 hrs			
Architecture	AT bus (ISA)					
Docking Station	Dock I and II					
Port replicator	Port Replicator I and II					
PCMCIA™ 2.1 slots	<b>2 Type I or 2 Type II or 1 Type III</b>					
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional); non-DMA					
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot					
Video function (below)	<b>Daughtercard with video acceleration, composite in/out, game port</b>					
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>					
Data/fax modem	<b>Data/fax modem function via DSP</b>					
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b>					
Audio in/out jacks	<b>Int stereo speakers .5 watts (with dial volume control) / int microphone</b>					
Telephone	Input jack / output jack					
Infrared ports	Telephone / answering machine / full duplex speakerphone					
Security	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>					
Preinstalled software	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock					
Warranty	IBM DOS, Windows™ 3.11, OS/2 Warp 3.0, and all apps listed to right: <b>3 year - ThinkPad EasyServ (optional Overnight Repair Service) or carry-in</b>					
<b>Enhanced Video Card in 755CD provides:</b>		<b>Compatible in all ThinkPad 360 family, 750 family, 755 family:</b>				To use diskette and CD-ROM simultaneously, need FDD External Kit and one of four docking solutions
<ul style="list-style-type: none"> <li>- <b>Acceleration</b> of Video for Windows™ motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degradation.</li> <li>- <b>Composite in</b> and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk). So can hook up a TV or VCR and run it on the ThinkPad screen.</li> <li>- <b>Composite out</b> and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on a VCR the contents of the 755CD screen.</li> <li>- <b>Mini game port</b> for MIDI or joystick (includes MIDI/joystick cable)</li> <li>- Includes a video in and video out port (includes two video in/out cables)</li> <li>- Use software called Digital Video Producer™</li> </ul>		<ul style="list-style-type: none"> <li>- Disks:</li> <li>170 MB IDE 66G2847/9</li> <li>250 MB IDE 84G2391</li> <li>340 MB IDE 66G2849</li> <li>540 MB IDE 84G2150</li> <li>810 MB IDE 84G8250</li> <li>1.2 GB IDE 85G8562</li> <li>- Dock I (1 slot / 1 bay) 3545001</li> <li>- Dock II (2 slot / 2 bay) 3546001</li> <li>- Port Replicator I (w/ PCMCIA) 66G3510</li> <li>- Port Replicator II 66G3520</li> <li>- 1.44 MB diskette std in newer</li> <li>- 2.88 MB diskette 66G0108</li> </ul>				
		<b>Options for 755CD:</b> <ul style="list-style-type: none"> <li>- PCMCIA Cartridge 84G1301</li> <li>- NiMH Battery Pack II 85G1513</li> <li>- Lithium Ion Battery (Pentium only) 85G8561</li> <li>- Li-Ion Batt Pack II (Pentium only) 29H9329</li> <li>- CDPD Mobile Module 71G2560</li> <li>- FDD External Attachment Kit 66G3618</li> <li>- <b>Pentium/L2 upgrade (DX4 mod) 29H8755</b></li> </ul>				
		<b>Features of 755CD Models</b>				<ul style="list-style-type: none"> <li>- Discharge battery via mouse click</li> <li>- Battery life indicator</li> <li>- Non-disruptive battery exchange</li> <li>- Standby, suspend, and hibernation modes</li> <li>- US EPA Energy Star compliant</li> <li>- Personalized nameplate in molded indentation</li> <li>- Personalization screen at startup</li> <li>- <b>International Warranty Service</b></li> <li>- <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b></li> <li>- <b>IBM and dealer warranty/service</b></li> <li>- <b>Online Housecall (remote diagnostics)</b></li> </ul>

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.

□ = Upgradeable; ○ = Removable; ≈ = Withdrawn from marketing

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# IBM ThinkPad 755CDV - withdrawn

<b>IBM® ThinkPad®:</b>	≈ 755CDV	≈ 755CDV	<b>Same features as ThinkPad 755CD except includes:</b>	
	TFT color - projector LCD - DX4	TFT color - projector LCD - Pentium	<ul style="list-style-type: none"> <li>⊕ <b>Overhead projector LCD</b></li> <li>⊕ <b>Supports optional lithium ion battery</b></li> <li>⊕ <b>Mind Path™ Remote Control IR55 F/X</b></li> </ul>	
Processor type	<b>Intel®DX4™ 100/33 MHz</b>	<b>Pentium® 75/50 MHz</b>		
L2 cache	None	256 KB write-through / 12ns		
Processor / L2 upgrade	to Pentium 75/50 MHz which includes 256 KB L2 cache		direct mapped / soldered 64 bit to L2 / 32 bit to mem	
Removable diskette	Internal 3.5" 1.44 MB ○ / supports internal 2.88 MB diskette			
Removable CD-ROM	Supports PCMCIA Cartridge in diskette bay			
Price	<b>5.25" CD-ROM ○ / double speed / multi-session and XA / front loaded</b>			
Type - model / part	9545-ABJ	9545-ABK	9545--GBK	9545-GBL
Removable disk - size	<b>540 MB / 14 ms</b>	<b>810 MB / 14</b>	<b>810 MB / 14 ms</b>	<b>1.2 GB / 12ms</b>
Avail / withdrawn date	June 95 / Jun 96	Jun95 / Jun96	Sept 95 / Oct 96	Sept 95 / Oct 96
Display - type	<b>VGA color / 640 x 480 / 65,536 simultaneous colors</b>			
Display - technology	<b>TFT - active matrix</b>			
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio			
Display - projector	<b>Overhead projector LCD by removing back (includes Stand and Strap)</b>			
Graphics - controller	WD90C24A2 Rev D with 1 MB DRAM			
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)			
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt			
Memory - std / max	8 MB / 40 MB	70 ns / parity	non-parity	
Mem - sockets empty	1 socket / 5 volt			
Mem-options available	2, 4, 8, 16, 32 MB ICs or 4, 8, 16 MB DIMMs that work on optional Memory Module Adapter		Memory upgraded via ① 1 open socket for IC memory card for 40 MB max or ② new DIMM technology for max of 36 MB with 4, 8, or 16 MB JEDEC 72 pin SO DIMMs on optional Memory Module Adapter.	
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)			
Keyboard slope	Yes (legs pop out)		<b>Includes Mind Path Remote Control IR55 F/X</b>	
Mouse/pointing	<b>TrackPoint III™</b>			
Ext keyboard support	Yes (with option cable)			
Dimensions	11.7 x 8.3 x 2.2" (213 cubic inches)			
Color	Black			
Weight (with battery)	7.45 pounds			
Battery - type	Nickel hydride (NiMH) / smart		Nickel hydride (NiMH) / smart	
Battery - life	3 to 9 hours		2.5 to 8 hours	
Charge time - on / off	1.7 hrs / 1.2 hrs		1.7 hrs / 1.2 hrs	
Architecture	AT bus (ISA)		Easy-Setup is entered by holding F1 when turning on.	
Docking Station	Dock I and II			
Port replicator	Port Replicator I and II			
PCMCIA™ 2.1 slots	<b>2 Type I or 2 Type II or 1 Type III</b>			
Serial / parallel ports	One 9 pin; 16550A / One (IEEE P1284-A, EPP, ECP, bidirectional)			
Other features	APM-aware BIOS / Universal AC adapter (35 watts) / Selectable boot			
Video function (below)	<b>Daughtercard with video acceleration, composite in/out, game port</b>			
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>			
Data/fax modem	<b>Data/fax modem function via DSP</b>			
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b>			
Audio in/out jacks	<b>Internal stereo speakers .5w (w/ dial volume control) and int microphone</b>			
Telephone	Input jack / output jack			
Infrared ports	Telephone / answering machine / full duplex speakerphone			
Security	<b>Infrared ports (front and back) / IRDA compatible / up to 115 kbs</b>			
Preinstalled software	Power-on password / Hard disk password / Supervisor password / Hardware security loop / Keyboard lock / Locking device keyhole (Kensington™ Microsaver cable lock) / PCMCIA card lock			
Warranty	IBM DOS 7.0, Windows™ 3.11, OS/2 Warp Version 3 and all apps listed to right: <b>3 year - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in</b>			
Enhanced Video Card in 755CDV provides:	Compatible in all ThinkPad 360 family, 750 family, 755 family:			
- Acceleration of 'Video for Windows'ä motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degradation.	- Disks: 170 MB IDE 66G2847/9			
- Composite in and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk). So can hook up a TV or VCR and run it on the ThinkPad screen.	250 MB IDE 84G2391			
- Composite out and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on a VCR the contents of the 755CD screen.	340 MB IDE 66G2849			
- Mini game port for MIDI or joystick (includes MIDI/joystick cable)	540 MB IDE 84G2150			
- Includes a video in and video out port (includes two video in/out cables)	810 MB IDE 84G8250			
- Use software called Digital Video Producerä	1.2 GB IDE 85G8562			
	- Dock I (1 slot / 1 bay) 3545001			
	- Dock II (2 slot / 2 bay) 3546001			
	- Port Replicator I (w/ PCMCIA) 66G3510			
	- Port Replicator II 66G3520			
	- 2.88 MB diskette 66G0108			
	Options for 755CDV:			
	- NiMH Battery Pack II 85G1513			
	- Lithium Ion battery 85G8561			
	- Li-Ion Batt Pack II (Pentium only) 29H9329			
	- CDPD Mobile Module 71G2560			
	- PCMCIA Cartridge 84G1301			
	- Pentium/L2 upgrade (DX4 mod) 29H8755			
	- Cooling Fan Kit (for overhead) 29H8000			
	ThinkPad IC DRAM memory for 700, 720, 750, 755 families are all compatible.			
	Integrated Mwave™ DSP provides:			
	① <b>Data modem function</b>			
	- V.22bis (2400 bps)			
	- V.32 (9600 bps)			
	- V.32bis (14.4 Kbps)			
	② <b>Fax modem function</b>			
	- G3 fax send/receive (14.4 Kbps)			
	③ <b>Audio function</b>			
	- Stereo waveform record and playback			
	- Qsound™ support (3-D effect)			
	- 32 voice MIDI wave table synthesizer			
	- SoundBlaster™ support; Text to speech			
	④ <b>Telephone function</b>			
	- Full telephone (can use opt headset)			
	- Telephone answering machine			
	- Full duplex speakerphone			
	⊕ <b>Software upgradeable (to 28.8 &amp; DSVD)</b>			
	<b>PREINSTALLED APPLICATIONS</b>			
	- IBM DOS 7.0 <i>SelectaSystem™</i>			
	- Windows 3.11			
	- OS/2 Warp 3.0 (dual boot) w/ selected BonusPak			
	- IBM PC Card Director™ for PCMCIA			
	- IBM ThinkPad Demo			
	- Online Users Guide			
	- ThinkPad Features; Diskette Factory			
	1. Lotus® cc:Mail™, e-mail for Global® network; 2. Lotus Organizer™ 1.12			
	3. Lotus ScreenCam™ 1.0			
	4. Triton CoSession™ Host			
	5. PRODIGY®; 6. America Online®			
	7. SofNet FaxWorks™ Voice™ 3.0			
	8. Video For Windows™ 1.1 Runtime			
	9. Monologue (text to speech)			
	10. Puma TranXit™; 11. Taxi™			
	12. AlphaNet™ FollowFax™			
	13. REPRINT™; 14. COMPEL™ PE			
	15. TalkWorks™; 16. ReutersSM Money® Net			
	17. Asymetrix® Digital Video Producer™			
	18. Mind Path™ Presentation F/X Pro			
	19. Asymetrix 3D F/X			
	20. CD-ROM Catalog/Sampler			
	The left bay (UltraBay™) supports either the standard diskette drive or standard CD-ROM. CD-ROM ships in this bay from factory.			
	To use diskette and CD-ROM simultaneously, need FDD External Kit and one of four docking solutions			
	Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, battery, and memory			
	Exceeds MPC2 standard			
	<b>FEATURES OF 755CDV MODELS</b>			
	Discharge battery via mouse click			
	Battery life indicator			
	Non-disruptive battery exchange			
	Standby, suspend, and hibernation modes			
	US EPA Energy Star compliant			
	Personalized nameplate in molded indentation			
	Personalization screen at startup			
	<b>International Warranty Service</b>			
	<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b>			
	<b>IBM warranty/service</b>			
	<b>Online Housecall (remote diagnostics)</b>			

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business days average turnaround). Overnight repair option in US available for \$99.

□ = Upgradeable ○ = Removable; ≈ = Withdrawn from marketing

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# IBM ThinkPad 760LD - withdrawn

<b>IBM® ThinkPad®:</b> <b>≈ 760LD</b> 10.4" TFT color - CD-ROM		<b>ThinkPad 760LD strengths:</b> ⇨ <b>Removable, 4 x speed, 5.25" CD-ROM</b> ⇨ <b>Automated tilt up keyboard / palm rest space</b> ⇨ <b>UltraBay: 2nd disk, 2nd battery, diskette</b> ⇨ <b>Two high speed infrared ports</b> ⇨ <b>Integrated audio / speakers / microphone</b> ⇨ <b>16.7 million simultaneous color LCD</b>	
Processor type <b>Pentium® 90/60 MHz (P54LM) / 64 bit to L2 cache / 32 bit to memory</b> Processor upgrade to Pentium 120/60 MHz L2 cache            256 KB / write-through / direct mapped / 10 ns / synchronous / soldered Removable diskette 3.5" 1.44 MB ○ / use in UltraBay or attach externally to FDD attach port Removable CD-ROM <b>5.25" CD-ROM ○ / 4 x speed / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI)</b>		Palette of 24 systems 9547-U3R (9547U3R)    9547-U3A (9547U3A)    9547-U3R (9547U3R) Preload (see side)    SelectaSystem            Windows 95                Blank Avail / withdrawn date Feb 96 / Oct 96            Feb 96 / Oct 96            Feb 96 / Oct 96 Remv disk - size / ms <b>810 MB / 12 ms / EIDE ○ / PIO Mode 4</b>	
Price Type - model (part)    9547-U31(9547U31)            9547-U3A (9547U3A)            9547-U3R (9547U3R) Preload (see side)    SelectaSystem                Windows 95                    Blank Avail / withdrawn date Feb 96 / Oct 96                Feb 96 / Oct 96                Feb 96 / Oct 96 Remv disk - size / ms <b>810 MB / 12 ms / EIDE ○ / PIO Mode 4</b>		The left bay (UltraBay™) supports: ① 2nd disk ② 2nd battery ③ std diskette drive ④ std CD-ROM ⑤ 2.88 MB diskette (option) ⑥ PCMCIA Cartridge (option) ⑦ IBM Wireless Modem ARDIS (option) ⑧ IBM Wireless Modem for Cellular/CDPD (option)	
Display - diagonal size <b>10.4 inch</b> Display - type <b>VGA color / 640 x 480 / 16.7 million simultaneous colors</b> Display - technology <b>Black Matrix TFT - active matrix / 100 to 1 contrast ratio</b>		<b>SELECTASYSTEM PRELOAD</b> - IBM DOS 7.0 - Windows 3.11 - OS/2 Warp 3.0 (dual boot) w/ selected BonusPak - IBM PC Card Director™ 3.0 - Online Users Guide - ThinkPad Features Program - Diskette Factory 1. Triton CoSession™ Host 2. PRODIGY® 3. SofNet FaxWorks™ 4. Video For Windows™ 1.1 Runtime 5. Puma TranXit™ 6. CompuServ for Windows 7. NetFinity for Windows and OS/2	
Graphics - controller    Tridentä CYBER9320 with 1 MB DRAM Graphics - external      External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz Graph - arch/data path   VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt		<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 - Online User's Guide - ThinkPad Features Program - Diskette Factory 1. Triton CoSession™ Host 2. PRODIGY® 3. SofNet FaxWorks™ 4. Puma TranXit™ 5. CompuServ for Windows 9. NetFinity for Windows 95	
Memory - std / max <b>8 MB / 64 MB</b> 70 ns / non-parity / 3.3 volt / fast page Memory - upgrade        2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)		<b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery</b> <b>Exceeds MPC2 standard</b>	
Keyboard / # of keys    Full size alp/num / 85 (8 Fn key functions) Keyboard slope <b>Automated tilt up keyboard (5.5 degrees)</b> Pointing / palm rest <b>TrackPoint III™ / integrated palm rest</b> Ext keyboard support    Yes (with option cable)			
Dimensions              11.7 x 8.3 x 1.96" (190 cubic inches) Weight (with CD-ROM) 7.11 pounds			
Battery - type            NiMH / intelligent <i>Optional</i> Battery - life (1 batt)    3 hours <i>Lithium Ion</i> Battery - life (2 batt)    6 hours Charge time - on / off    1.7 hrs / 1.2 hrs			
Architecture              ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, ext expansion) VL-Bus 2.0 / 32 bit / 33 Mhz (graphics)			
Docking Station         Dock I and II Port replicator            Port Replicator I and II PCMCIA™ 2.1 slots        2 Type I or 2 Type II or 1 Type III Serial / parallel ports    One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) Other features            APM-aware BIOS / Universal adapter (40 watts) / Selectable boot			
Motion video accel        None MPEG decoder            None DSP function              None Data/fax modem            None Audio support <b>16 bit audio chip / 18 voice MIDI FM synthesis / ESS1688</b> <b>Int stereo speakers / .5 watt / slide volume control / internal microphone</b> Input jack (3.5 mm) / Output jack (3.5 mm)			
Jacks Telephone                None Infrared ports <b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>			
Security                  Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock			
Preinstalled software    Choice of two preload configurations (listed to right) Warranty <b>3 year - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in</b>			
<b>Differences between 760L/LD and 760C/CD:</b>		<b>Compatible in ThinkPad 760 family:</b>	
<b>760L/LD</b> Pentium 90/60 MHz All 10.4" TFT VGA 640 x 480 LCD 16.7 mil colors on LCD None None None None 18 voice FM synthesis NiMH battery Type is 9547	<b>760C/CD</b> Pentium 120/60 or 90/60 10.4" or 12.1" TFT SVGA 800 x 600 LCD 65,536 colors on LCD 760CD: Enh. Vid Card 760CD: MPEG decoder Mwave DSP 28.8 modem / DSVD 32 voice wavetable syn. Li-Ion battery Type is 9546	- Disks: (360/750/755 IDE disks not supported) 720 MB HDD II EIDE    12.5 mm 29H9383 810 MB HDD II EIDE    12.5 mm 29H9313 1.08 GB HDD II EIDE    12.5 mm 29H9319 1.2 GB HDD II (LD/CD only) 17 mm 29H9325 - Second HDD Adapter    29H9333 - Dock I (1 slot / 1 bay)    3545001 - Dock II (2 slot / 2 bay)    3546001 - Port Replicator I (w/ PCMCIA) 66G3510 - Port Replicator II        66G3520 - 2.88 MB diskette        66G0108 - PCMCIA Cartridge        84G1301 - <b>760 NiMH Battery (black)</b> <b>41H9720</b> - <b>Li-Ion Battery Pack II (gray)</b> <b>29H9329</b> - Travel Quick Charger    85G1522 - FDD External Attachment Kit 66G3618 - <b>Pentium 120/60 MHz upgrade</b> <b>29H9340</b> - Car Battery Adapter      49G2167 - ThinkPad AC Adapter (50 watts) 66G3541 - 8 MB SO DIMM 3.3v non-parity EDO 92G7315 - 16 MB SO DIMM 3.3v non-parity EDO 92G7316 - ThinkPad headset        85G1301	
All 760 systems support the NiMH or Li-Ion battery in both battery bay and UltraBay.  Maximum internal disk capacity on 760LD is 2.4 GB with two 1.2 GB disks.			
		Easy-Setup is entered by holding F1 when turning on.	
		<b>FEATURES OF 760 MODELS</b> Product Map; <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 ○ = Removable

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 No warranties are expressed or implied in this summary  
 (760LD) Compiled by Roger Dodson, IBM. October 1996

# IBM ThinkPad 760C - withdrawn

<b>IBM® ThinkPad®:</b> ≈ 760C		<b>ThinkPad 760C strengths:</b>					
12.1" or 10.4" TFT color		<ul style="list-style-type: none"> <li>➤ Tilt up keyboard and palm rest space</li> <li>➤ Largest notebook display models -- 12.1 inch</li> <li>➤ UltraBay: 2nd disk, 2nd battery, diskette</li> <li>➤ Integrated 28.8 Kbps modem, audio, telephony</li> <li>➤ Two high speed infrared ports</li> </ul>					
Processor type	Pentium® (P54LM) / 64 bit to L2 cache / 32 bit to memory						
Processor speed	90/60 or 120/60 MHz (see below)						
Processor upgrade	to Pentium 120/60 MHz						
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered						
Removable diskette	Internal 3.5" 1.44 MB ○ (in UltraBay)						
Removable CD-ROM	None (diskette bay is called UltraBay™) - cannot install an int CD-ROM						
Price	U21		U22		U27		
Type - model all 9546	U2A		U2B		U2H		
Preload (see side)	Win 95		Win 95		Win 95		
Pentium speed	90/60 MHz		90/60 MHz		120/60 MHz		
Remv disk - size / ms	720 MB / 13 ms / EIDE ○		720 MB / 13 ms / EIDE ○		720 MB / 13 ms / EIDE ○		
Avail / withdrawn date	Oct 1995 / Oct 1996		Oct 1995 / Oct 1996		Nov 1995 / Oct 1996		
Display - diagonal size	12.1 inch		10.4 inch		12.1 inch		
Display - type	SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors						
Display - technology	Black Matrix TFT - active matrix / 100 to 1 contrast ratio						
Graphics - controller	Trident™ CYBER9320 with 1 MB DRAM						
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz						
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt						
Memory - std / max	8 MB / 64 MB 70 ns / non-parity / 3.3 volt / fast page						
Mem - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)						
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)			<b>Liftable (pop-up) keyboard to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery</b>			
Keyboard slope	Automated tilt up keyboard (5.5 degrees)						
Pointing / palm rest	TrackPoint III™ / integrated palm rest						
Ext keyboard support	Yes (with option cable)						
Dimensions (cubic in)	10.4" models: 11.7 x 8.3 x 1.74" (169)		12.1" models: 11.7 x 8.3 x 1.92" (186)				
Weight (with battery)	10.4" models: 6.1 pounds		12.1" models: 6.8 pounds				
Battery - type	10.4" models: Lithium Ion / intelligent		12.1" models: Lithium Ion / intelligent				
Battery - life (1 batt)	10.4" models: 3.8 hours Opt		12.1" models: 3.5 hours Opt				
Battery - life (2 batt)	10.4" models: 7.6 hours NiMH		12.1" models: 7 hours NiMH				
Charge time - on / off	10.4" models: 2 to 3 hrs / 1.5 to 2.5 hrs		12.1" models: 2 to 3 hrs / 1.5 to 2.5 hrs				
Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, 240 pin ext expansion)						
Docking Station	VL-Bus 2.0 / 32 bit / 33 MHz (graphics)						
Port replicator	Dock I and II						
PCMCIA™ 2.1 slots	Port Replicator I and II						
Serial / parallel ports	2 Type I or 2 Type II or 1 Type III						
Other features	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)						
Motion video accel	APM-aware BIOS / Universal AC adapter 3 prong (35 watts) / Selectable boot						
MPEG decoder	None						
DSP function	None						
Data/fax modem	Mwave MDSP2780 DSP with modem, fax, audio, telephony function						
Audio support	Data/fax modem function via DSP (v.34 to 28.8 Kbps) / Mwave 2.0						
Audio in/out jacks	16 bit audio chip on planar with Mwave DSP						
Infrared ports	Int stereo speakers / .5 watt / slide volume control / internal microphone						
Telephone	Input jack (3.5 mm) / output jack (3.5 mm)						
Security	Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs						
Preinstalled software	Telephone / answering machine / full duplex speakerphone						
Warranty	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock						
The left bay (UltraBay™) supports:	Choice of two preloaded configurations (listed to right)						
① 2nd disk (requires Second HDD Adapter)	3 year - ThinkPad EasyServ only (optional Overnight Repair Option) or carry-in						
② 2nd battery							
③ std diskette drive							
④ 2.88 MB diskette drive (option)							
⑤ PCMCIA Cartridge (option)							
⑥ IBM Wireless Modem for ARDIS (option)							
⑦ IBM Wireless Modem for Cellular/CDPD (option)							
Maximum internal disk capacity on 760C is 2.16 GB with two 1.08 GB disks.							
Easy-Setup is entered by holding F1 when turning on.							
Integrated Mwave™ DSP provides:							
① Data modem function (to 28.8 Kbps)							
② Fax modem function (to 14.4 Kbps)							
③ Audio function (wave table synthesis)							
④ Telephone function							
- Full duplex speakerphone							
⑤ Digital Simultaneous Voice and Data							
Compatible in ThinkPad 760 family:							
- Disks: (360/750/755 IDE disks not supported)							
720 MB HDD II EIDE	12.5 mm	29H9383					
1.08 GB HDD II EIDE	12.5 mm	29H9319					
1.2 GB HDD II (CD only)	17 mm	29H9325					
- Second HDD Adapter		29H9333					
- Dock I (1 slot / 1 bay)		3545001					
- Dock II (2 slot / 2 bay)		3546001					
- Port Replicator I (w/ PCMCIA)		66G3510					
- Port Replicator II		66G3520					
- 1.44 MB diskette	std in newer						
- 2.88 MB diskette		66G0108					
- PCMCIA Cartridge		84G1301					
- 760 NiMH Battery (black)		41H9720					
- Li-Ion Battery Pack II (gray)		29H9329					
- Travel Quick Charger		85G1522					
- FDD External Attachment Kit		66G3618					
- Pentium 120/60 MHz upgrade		29H9340					
- Car Battery Adapter		49G2167					
- ThinkPad AC Adapter (50 watts)		66G3541					
- 8 MB SO DIMM 3.3v non-parity EDO		92G7315					
- 16 MB SO DIMM 3.3v non-parity EDO		92G7316					
- ThinkPad headset		85G1301					
<b>SELECTASYSYSTEM PRELOAD</b>							
- IBM DOS 7.0							
- Windows 3.11							
- OS/2 Warp 3.0 (dual boot) with selected BonusPak							
- IBM PC Card Director™ 3.0							
- Online Users Guide							
- ThinkPad Features Program							
- Diskette Factory							
1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™							
3. Lotus ScreenCam™							
4. Triton CoSession™ Host; 5. PRODIGY®							
6. SofNet FaxWorks™ Voice™							
7. Video For Windows™ 1.1 Runtime							
8. Puma TranXit™ 9. COMPEL™ PE							
10. Mind Path Presentation F/X Pro							
11. Internet for Windows							
12. Compuserv for Win; 13. WIN32s Runtime							
14. NetFinity for Windows and OS/2							
- Complimentary Applications CD-ROM							
- Lotus SmartSuite 4.0 CD-ROM							
<b>WINDOWS 95 PRELOAD</b>							
- Microsoft Windows 95							
- Online User's Guide							
- ThinkPad Features Program							
- Diskette Factory							
1. Lotus® cc:Mail™, e-mail for IBM Global® network; 2. Lotus Organizer™							
3. Lotus ScreenCam™							
4. Triton CoSession™ Host; 5. PRODIGY®							
6. SofNet FaxWorks™ Voice™							
7. Puma TranXit™							
8. Compuserv for Windows							
9. Mind Path Presentation F/X Pro							
10. COMPEL Personal Edition							
- Lotus SmartSuite 96 CD-ROM							
<b>FEATURES OF 760 MODELS</b>							
Product Map; LCD indicator panel							
LCD of remaining battery life							
LCD icons for two batteries							
Plug and Play 1.0a							
Discharge battery via mouse click							
Non-disruptive battery exchange							
Standby, suspend, and hibernation modes							
US EPA Energy Star compliant							
Personalized nameplate in indentation							
Personalization screen at startup							
<b>International Warranty Service</b>							
<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b>							
<b>(http://www.pc.ibm.com) support</b>							
<b>IBM and dealer warranty/service</b>							
<b>Online Housecall (remote diagnostics)</b>							

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
○ = Removable

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# IBM ThinkPad 760CD - withdrawn

<b>IBM® ThinkPad®:</b>	≈ 760CD				<b>ThinkPad 760CD strengths over 760C:</b> ⇨ Mobile multimedia - MPC2 compliant ⇨ Removable, 4 x speed, 5.25" CD-ROM ⇨ Video card (acceleration, composite in/out) ⇨ Joystick/MIDI port ⇨ MPEG-1 and MPEG-2 HHR decoder																								
Processor type	12.1" TFT color - CD-ROM - Enhanced Video - MPEG																												
Processor upgrade	Pentium® 90/60 or 120/60 (P54LM) / 64 bit to L2 cache / 32 bit to mem to Pentium 120/60 MHz from 90/60																												
L2 cache	256 KB / write-through / direct mapped / 10 ns / synchronous / soldered																												
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally																												
Removable CD-ROM	5.25" CD-ROM ○ / 4 x speed / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI)																												
Price	<table border="1"> <tr> <td>Type - model</td> <td>9546-U11</td> <td>9546-U1A</td> <td>9546-U13</td> <td>9546-U1C</td> </tr> <tr> <td>Preload (see side)</td> <td>SelectaSystem</td> <td>Windows 95</td> <td>SelectaSystem</td> <td>Windows 95</td> </tr> <tr> <td>Pentium speed</td> <td>90/60 Mhz</td> <td>90/60 Mhz</td> <td>120/60 Mhz</td> <td>120/60 Mhz</td> </tr> <tr> <td>Avail / withdrawn date</td> <td>Oct 95 / Oct 96</td> <td>Oct 95 / Oct 96</td> <td>Jan 96 / Oct 96</td> <td>Jan 96 / Oct 96</td> </tr> <tr> <td>Remv disk - size / ms</td> <td colspan="4">1.2 GB / 12 ms / EIDE ○ / supports two internal disks</td> </tr> </table>				Type - model	9546-U11	9546-U1A	9546-U13	9546-U1C	Preload (see side)	SelectaSystem	Windows 95	SelectaSystem	Windows 95	Pentium speed	90/60 Mhz	90/60 Mhz	120/60 Mhz	120/60 Mhz	Avail / withdrawn date	Oct 95 / Oct 96	Oct 95 / Oct 96	Jan 96 / Oct 96	Jan 96 / Oct 96	Remv disk - size / ms	1.2 GB / 12 ms / EIDE ○ / supports two internal disks			
Type - model	9546-U11	9546-U1A	9546-U13	9546-U1C																									
Preload (see side)	SelectaSystem	Windows 95	SelectaSystem	Windows 95																									
Pentium speed	90/60 Mhz	90/60 Mhz	120/60 Mhz	120/60 Mhz																									
Avail / withdrawn date	Oct 95 / Oct 96	Oct 95 / Oct 96	Jan 96 / Oct 96	Jan 96 / Oct 96																									
Remv disk - size / ms	1.2 GB / 12 ms / EIDE ○ / supports two internal disks																												
Display - diagonal size	12.1 inch																												
Display - type	SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors																												
Display - technology	Black Matrix TFT - active matrix / 100 to 1 contrast ratio																												
Graphics - controller	Trident™ CYBER9320 with 1 MB DRAM																												
Graphics - external	External SVGA to 1024 x 768 w/ 256 colors up to 75 Hz																												
Graph - arch/data path	VL-Bus 2.0 local bus / 32 bit / Simultaneous LCD and CRT / 180 degree tilt																												
Memory - std / max	8 MB / 64 MB 70 ns / non-parity / 3.3 volt / fast page																												
Memory - upgrade	2 sockets for two JEDEC 88 pin EDO SO DIMMs of 8 or 16 MB (acts like fast page)																												
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)																												
Keyboard slope	Automated tilt up keyboard (5.5 degrees)																												
Pointing / palm rest	TrackPoint III™ / integrated palm rest																												
Ext keyboard support	Yes (with option cable)																												
Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)																												
Weight (with CD-ROM)	7.47 pounds																												
Battery - type	Lithium Ion / intelligent optional																												
Battery - life (1 batt)	3.1 hours NiMH																												
Battery - life (2 batt)	6.2 hours																												
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs																												
Architecture	ISA (EIDE, audio, PCMCIA, diskette, serial, parallel, ext expansion, MPEG) VL-Bus 2.0 / 32 bit / 33 Mhz (graphics, ACSII)																												
Docking Station	Dock I and II Easy-Setup is entered by holding F1 when turning on.																												
Port replicator	Port Replicator I and II																												
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III																												
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)																												
Other features	APM-aware BIOS / Universal AC Adapter 3 prong (35 watts) / Selectable boot																												
Motion video (below)	Video acceleration / composite and S-Video in/out / game port (ASCII V7325)																												
MPEG decoder	MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder (MPEGCD1)																												
DSP function	Mwave MDSP2780 DSP with modem, fax, audio, telephony function																												
Data/fax modem	Data/fax modem function via DSP (v.34 to 28.8 Kbps) / Mwave 2.0																												
Audio support	16 bit audio chip on planar with Mwave DSP																												
Jacks	Int stereo speakers / .5 watt / slide volume control / internal microphone																												
Telephone	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)																												
Infrared ports	Telephone / answering machine / full duplex speakerphone																												
Security	Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs																												
Preinstalled software	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock																												
Warranty	Choice of two preload configurations (listed to right) 3 year - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in																												
Enhanced Video Card in 760CD provides:	Compatible in ThinkPad 760 family:																												
- Acceleration of Video for Windows™ and MPEG motion video with scaling and interpolation of image. Video may be scaled up to full screen without frame rate degradation.	- Disks: (360/750/755 IDE disks not supported) 720 MB HDD II EIDE 12.5 mm 29H9383 1.08 GB HDD II EIDE 12.5 mm 29H9319 1.2 GB HDD II (CD only) 17 mm 29H9325																												
- Composite in and S-Video in for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay (view video on LCD like with a TV, VCR, or camcorder without capturing it to disk).	- Second HDD Adapter 29H9333 - Dock I (1 slot / 1 bay) 3545001 - Dock II (2 slot / 2 bay) 3546001 - Port Replicator I (w/ PCMCIA) 66G3510 - Port Replicator II 66G3520 - 1.44 MB diskette std in newer 66G0108 - 2.88 MB diskette 66G1301 - PCMCIA Cartridge 84G1301																												
- Composite out and S-Video out to TV meaning use a TV as if an external display (connect to video out port; NTSC or PAL); or record on VCR the screen of 760CD.	- 760 NiMH Battery (black) 41H9720 - Li-Ion Battery Pack II (gray) 29H9329 - Travel Quick Charger 85G1522 - FDD External Attachment Kit 66G3618 - Pentium 120/60 MHz upgrade 29H9340 - Car Battery Adapter 49G2167 - 8 MB SO DIMM 3.3v non-parity EDO 92G7315 - 16 MB SO DIMM 3.3v non-parity EDO 92G7316 - ThinkPad TrackPoint III Caps 39H1354 - ThinkPad headset 85G1301																												
- Mini game port for MIDI or joystick																													
- Includes a video in and video out ports (includes two video in/out cables)																													
- Use software called Digital Video Producer™																													
- Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles (at 800 x 600)																													
	<b>SELECTASYSTEM PRELOAD</b> - IBM DOS 7.0 - Windows 3.11 - OS/2 Warp 3.0 (dual boot) w/ selected BonusPak - IBM PC Card Director™ 3.0 - Online Users Guide - ThinkPad Features; Diskette Factory 1. Lotus® cc:Mail™, e-mail for IBM Global network; 2. Lotus Organizer™ 3. Lotus ScreenCam™ 4. Triton CoSession™ Host; 5. PRODIGY® 6. SofNet FaxWorks™ Voice™ 7. Video For Windows™ 1.1 Runtime 8. Puma TranXit™; 9. COMPEL™ PE 10. Mind Path Presentation F/X Pro 11. Internet for Windows 12. Compuserv for Win; 13. WIN32s Runtime 14. NetFinity for Windows and OS/2 15. Asymetrix® Digital Video Producer™ - Catalog/Sampler CD-ROM - Complimentary Applications CD-ROM - MPEG Sampler CD-ROM - Lotus SmartSuite 4.0 CD-ROM <b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 - Online User's Guide - ThinkPad Features; Diskette Factory 1. Lotus® cc:Mail™, e-mail for IBM Global network; 2. Lotus Organizer™ 3. Lotus ScreenCam™ 4. Triton CoSession™ Host; 5. PRODIGY® 6. SofNet FaxWorks™ Voice™ 7. Puma TranXit™ 8. Compuserv for Windows 9. Mind Path Presentation F/X Pro 10. COMPEL Personal Edition 11. Asymetrix® Digital Video Producer™ - Catalog/Sampler CD-ROM - MPEG Sampler CD-ROM - Lotus SmartSuite 96 CD-ROM <b>FEATURES OF 760 MODELS</b> Product Map; LCD indicator panel Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b> ( <a href="http://www.pc.ibm.com">http://www.pc.ibm.com</a> ) support <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>																												

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 ○ = Removable; ≈ = Withdrawn from marketing

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 No warranties are expressed or implied in this summary  
 (760CD) Compiled by Roger Dodson, IBM. October 1996

# IBM ThinkPad 760EL - withdrawn

<b>IBM® ThinkPad®:</b>		≈ 760EL						
		11.3" DSTN color or 12.1" TFT color - thick						
Processor type	<b>Pentium<sup>®</sup> 100/66, 120/60, or 133/66</b> / 64 bit to L2 cache / 64 bit to mem							
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache							
L2 cache	None (not separately upgradeable)							
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port							
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)							
Removable CD-ROM	None / <b>can upgrade to 4 x, 6 x, or 8 x CD-ROM into UltraBay</b>							
Price	9547-U6G		9547-U6F		9547-U4F		Palette of 24 systems	
Type - model	9547-U6G		9547-U6F		9547-U4F		9547-U6R U4S	
Preload (see side)	<b>Win 95</b>		<b>Win 95</b>		<b>Win 95</b>		<b>Blank</b> (none)	
Available date	May 1996		May 1996		May 1996		May 1996	
Pentium speed	<b>100/66 MHz</b>		<b>120/60 MHz</b>		<b>120/60 MHz</b>		<b>120/60 MHz</b>	
Remv disk - size / ms	<b>810 MB / 13 ms ○</b>		<b>1.08 GB / 13 ms ○</b>		<b>810 MB</b>		<b>1.08 GB</b>	
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks							
Display - size and type	<b>11.3 inch DSTN</b>		<b>12.1 inch TFT</b>		<b>11.3 inch DSTN</b>		<b>12.1 inch TFT</b>	
Display - technology	<b>11.3" SVGA color / 640 x 480 or 800 x 600</b> 256 simultaneous colors / Dual Scan / 30 to 1 contrast ratio				<b>12.1" SVGA color / 640 x 480 or 800 x 600 / 65,536 sim colors</b> Black Matrix TFT - active matrix / 100 to 1 contrast ratio			
Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns						810 MB = DMA Mode 2 or PIO Mode 4	
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors						1.08 GB = DMA Mode 2 or PIO Mode 4	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt						1.2 GB = DMA Mode 1 or PIO Mode 3	
Memory - std / max	<b>8 MB / 72 MB or 104 MB</b>		<b>8 MB / 72 or 104</b>		<b>8 MB / 72 MB or 104 MB</b>		<b>16 MB / 80 MB or 104 MB</b>	
Memory - features	70 ns / non-parity / 3.3 volt / EDO / 2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB							
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)							
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)							
Pointing / palm rest	<b>TrackPoint III</b> / integrated palm rest / ext keyboard support (with option cable)							
Dimensions	<b>11.3" models:</b> 11.7 x 8.3 x 1.98" (192)				<b>12.1" models:</b> 11.7 x 8.3 x 2.14" (208)			
Weight	<b>11.3" models:</b> 6.7 pounds (3.04 kg)				<b>12.1" models:</b> 7.03 pounds (3.19 kg)			
Battery - type	Lithium Ion / intelligent (optional NiMH battery supported)							
Battery - life (1 batt)	<b>11.3" models:</b> 3.1 hours				<b>12.1" models:</b> 3.3 hours			
Battery - life (2 batt)	<b>11.3" models:</b> 6.2 hours				<b>12.1" models:</b> 6.6 hours			
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs							
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)							
Docking Station	Dock I and II / <b>SelectaDock I and II</b>							
Port replicator	Port Replicator I and II / <b>SelectaDock Base Model I</b>							
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible							
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)							
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot							
Video in/out	None							
MPEG decoder	None							
DSP function	None							
Data/fax modem	None							
Audio support	<b>16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688</b> Int stereo speakers / .5 watt / slide volume control / internal microphone Input jack (3.5 mm) / Output jack (3.5 mm)							
Jacks	None							
Telephone	None							
Infrared ports	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>							
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate							
Preinstalled software	Windows 95 with applications (listed on right)							
Warranty	<b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in							
The left bay (UltraBay™) supports:		Compatible in ThinkPad 760EL family:						
① 2nd disk (requires Second HDD Adapter)		- Second HDD Adapter 29H9333						
② 2nd battery		- Dock I (1 slot / 1 bay) 3545001						
③ std diskette drive		- Dock II (2 slot / 2 bay) 3546001						
④ 2.88 MB diskette drive (option)		- IDE Conversion Card (for Dock II) 46H5994						
⑤ PCMCIA Cartridge (option)		- <b>SelectaDock I</b> 3547001						
⑥ IBM Wireless Modem for ARDIS (option)		- <b>SelectaDock II</b> 3547002						
⑦ IBM Wireless Modem for Cellular/CDPD (option)		- Port Replicator I (w/ PCMCIA slots) 66G3510						
Maximum internal disk capacity on 760EL is 4.2 GB with two 2.1 GB disks		- Port Replicator II 66G3520						
Easy-Setup is entered by holding F1 when turning on.		- <b>SelectaDock Base Model I</b> 39H7405						
ThinkPad 760EL supported batteries:		- 2.88 MB diskette 66G0108						
- 760 NiMH Battery (black) 41H9720		- PCMCIA Cartridge (one Type III) 84G1301						
- Li-Ion Battery Pack II (gray) 29H9329		- FDD External Attachment Kit 66G3618						
- Travel Quick Charger 85G1522		- Pentium 133/66 MHz/L2 upgrade 46H5991						
- Car Battery Adapter 49G2167		- 35 watt AC Adapter (slim, 4 pin) 76H0119						
		- <b>4 x CD-ROM</b> (UltraBay) 39H7413						
		- <b>6 x CD-ROM</b> (UltraBay) 85G1957						
		- <b>8 x CD-ROM</b> (UltraBay) 45H8786						
		- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340						
		- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341						
		- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342						
		- <b>810 MB HDD II EIDE</b> 12.5 mm 29H9383						
		- <b>810 MB HDD II EIDE</b> 12.5 mm 29H9313						
		- <b>1.08 GB HDD II EIDE</b> 12.5 mm 29H9319						
		- <b>1.2 GB (1.96" or higher models)</b> 29H9325						
		- <b>1.4 GB HDD 3L EIDE</b> 12.5 mm 69H8412						
		- <b>2.1 GB (1.96" in higher models)</b> 69H8414						
		- <b>3.0 GB (1.96" + models)</b> 17 mm 45H8789						
		<b>WINDOWS 95 PRELOAD</b>						
		- Microsoft Windows 95						
		- Online User's Guide						
		- ThinkPad Features						
		- PC Card Director 4.0						
		- Diskette Factory						
		1. Triton CoSession™ Host						
		2. PRODIGY®						
		3. SofNet FaxWorks™ Voice™						
		4. Puma TranXit™						
		5. CompuServ for Windows						
		6. NetFinity for Windows 95						
		- Lotus SmartSuite 96 CD-ROM						
		<b>OS/2 WARP CONNECT PRELOAD</b>						
		- IBM OS/2 Warp Connect Version 3 with WIN-OS/2 with BonusPak applications						
		- Online User's Guide						
		- ThinkPad Features Program						
		- PC Card Director 4.0						
		- Diskette Factory						
		1. Triton CoSession™ Host;						
		2. Puma TranXit™						
		3. NetFinity for OS/2						
		4. Prodigy						
		- Lotus SmartSuite 4.0 (entitled to SSuite 96)						
		<b>BLANK PRELOAD</b>						
		- License for SmartSuite						
		ThinkPad 760E supported disks:						
		- 720 MB HDD II EIDE 12.5 mm 29H9383						
		- 810 MB HDD II EIDE 12.5 mm 29H9313						
		- 1.08 GB HDD II EIDE 12.5 mm 29H9319						
		- 1.2 GB (1.96" or higher models) 29H9325						
		- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412						
		- 2.1 GB (1.96" in higher models) 69H8414						
		- 3.0 GB (1.96" + models) 17 mm 45H8789						
		<b>FEATURES OF 760 MODELS</b>						
		Setup Pointer (single page)						
		<b>LCD indicator panel</b>						
		Plug and Play 1.0a						
		Discharge battery via mouse click						
		Non-disruptive battery exchange						
		Standby, suspend, safe suspend, and hibernation modes						
		US EPA Energy Star compliant						
		Personalized nameplate in indentation						
		Personalization screen at startup						
		<b>International Warranty Service</b>						
		<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b> ( <a href="http://www.pc.ibm.com">http://www.pc.ibm.com</a> ) support						
		<b>IBM and dealer warranty/service Online Housecall (remote diagnostics)</b>						

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). ○ = Removable  
≈ Models U4F, U4H, U4R, U4S, U48 withdrawn effective January 1997; U6F eff July 1997

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(760EL) Compiled by Roger Dodson, IBM. June 1997



# IBM ThinkPad 760ELD - withdrawn

<b>IBM® ThinkPad®:</b>	<b>≈ 760ELD</b> 12.1" TFT color - CD-ROM	
Processor type	<b>Pentium® 100/66</b> (P54LM) / 64 bit to L2 cache / 64 bit to memory	<b>WINDOWS 95 PRELOAD</b> <ul style="list-style-type: none"> <li>- Microsoft Windows 95</li> <li>- Online User's Guide</li> <li>- ThinkPad Features</li> <li>- PC Card Director 4.0</li> <li>- Diskette Factory</li> <li>1. Triton CoSession™ Host;</li> <li>2. PRODIGY®</li> <li>3. SofNet FaxWorks™ Fax</li> <li>4. Puma TranXit™</li> <li>5. CompuServ for Windows</li> <li>6. NetFinity for Windows 95</li> <li>- Lotus SmartSuite 96 CD-ROM</li> </ul>
Processor upgrade	to Pentium 133/66 MHz which includes 256 KB L2 cache	
L2 cache	None (not separately upgradeable)	
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port	
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)	
Removable CD-ROM	<b>5.25" CD-ROM ○ / 4 x speed / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices</b>	
Price		
Type - model	9547-U3F	
Preload (see side)	<b>Windows 95</b>	
Avail / withdrawn date	May 1996 / 1997	
Remv disk - size / ms	<b>810 MB / 13 ms ○ / DMA Mode 2 or PIO Mode 4</b>	
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks	
Display - size and type	<b>12.1 inch SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors</b>	
Display - technology	<b>Black Matrix TFT - active matrix / 100 to 1 contrast ratio</b>	
Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns	
Graph - arch/data path	PCI 2.1 / 32 bit	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt	
Graphics - external	External SVGA to 1024 x 768 with 256 colors	
Memory - std / max	<b>8 MB / 72 MB</b> 70 ns / non-parity / 3.3 volt / EDO	
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB	
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)	
Pointing / palm rest	<b>TrackPoint III™</b> / integrated palm rest / ext keyboard support (w/ option cable)	
Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)	
Weight (with CD-ROM)	7.28 pounds (3.30 kg)	
Battery - type	Lithium Ion / intelligent <i>optional</i>	<b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery</b>
Battery - life (1 batt)	3.2 hours <i>NiMH</i>	
Battery - life (2 batt)	6.4 hours	
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)	
Docking Station	Dock I and II / <b>SelectaDock I, II and III</b>	
Port replicator	Port Replicator I and II / <b>SelectaDock Base Model I</b>	
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot	
Video in/out	None	
MPEG decoder	None	
DSP function	None	
Data/fax modem	None	
Audio support	<b>16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688</b> Int stereo speakers / .5 watt / slide volume control / internal microphone	
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)	
Telephone	None	
Infrared ports	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>	
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate	
Preinstalled software	Windows 95 with applications (listed on right)	
Warranty	<b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	
The left bay (UltraBay™) supports:	Compatible in ThinkPad 760ELD family:	Easy-Setup is entered by holding F1 when turning on.
① 2nd disk	- Second HDD Adapter 29H9333	810 MB = DMA Mode 2 or PIO Mode 4
② 2nd battery	- Dock I (1 slot / 1 bay) 3545001	1.08 GB = DMA Mode 2 or PIO Mode 4
③ std diskette drive	- Dock II (2 slot / 2 bay) 3546001	1.2 GB = DMA Mode 1 or PIO Mode 3
④ CD-ROM	- IDE Conversion Card (for Dock I/II) 46H5994	ThinkPad 760 ELD supported disks:
⑤ 2.88 MB diskette (option)	- <b>SelectaDock I</b> 3547001	- (360/750/755 IDE disks not supported)
⑥ PCMCIA Cartridge (option)	- Port Replicator I (w/ PCMCIA slots) 66G3510	- 720 MB HDD II EIDE 12.5 mm 29H9383
⑦ IBM Wireless Modem ARDIS (option)	- Port Replicator II 66G3520	- 810 MB HDD II EIDE 12.5 mm 29H9313
⑧ IBM Wireless Modem for Cellular/ CDPD (option)	- <b>SelectaDock Base Model I</b> 39H7405	- 1.08 GB HDD II EIDE 12.5 mm 29H9319
All 760 systems support the NiMH or Li-Ion battery in both battery bay and UltraBay.	- 2.88 MB diskette drive 66G0108	- 1.2 GB (1.96"+ models) 17 mm 29H9325
Maximum internal disk capacity on 760ELD is 2.4 GB with two 1.2 GB disks.	- PCMCIA Cartridge (one Type III) 84G1301	- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412
	- FDD External Attachment Kit 66G3618	- 2.1 GB (1.96"+ models) 17 mm 69H8414
	- Pentium 133/66 MHz/L2 upgrade 46H5991	- 3.0 GB (1.96"+ models) 17 mm 45H8789
	- <b>4 x CD-ROM</b> (UltraBay) <b>39H7413</b>	- 5.1 GB (1.96" or higher models) 00K7902
	- <b>6 x CD-ROM</b> (UltraBay) <b>85G1957</b>	ThinkPad 760E supported batteries:
	- <b>8 x CD-ROM</b> (UltraBay) <b>45H8786</b>	- 760 NiMH Battery (black) 41H9720
	- <b>8-20 x CD-ROM</b> (UltraBay) <b>00K7903</b>	- Li-Ion Battery Pack II (gray) 29H9329
	- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340	- Travel Quick Charger 85G1522
	- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341	- Car Battery Adapter 49G2167
	- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342	
		<b>FEATURES OF 760 MODELS</b>
		Setup Pointer (single page)
		<b>LCD indicator panel</b>
		Plug and Play 1.0a
		Discharge battery via mouse click
		Non-disruptive battery exchange
		Standby, suspend, safe suspend, and hibernation modes
		US EPA Energy Star compliant
		Personalized nameplate in indentation
		Personalization screen at startup
		<b>International Warranty Service</b>
		<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b>
		<b>IBM and dealer warranty/service</b>
		<b>Online Housecall (remote diagnostics)</b>

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
○ = Removable

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(760ELD) Compiled by Roger Dodson, IBM. December 1997

# IBM ThinkPad 760E (SVGA) - withdrawn

IBM® ThinkPad®:		≈ 760E	≈ 760E	Key differences between 760E and 760ED:	
		12.1" SVGA TFT - thick	12.1" SVGA TFT - thin		
Processor type	<b>Pentium® 120/60 or 133/66</b> (P54LM) / 64 bit to L2 cache / 64 bit to mem			<b>760E</b>	<b>760ED</b>
Processor upgrade	to Pentium 133/66 MHz from 120/60			No std CD-ROM	Standard CD-ROM
L2 cache	256 KB / write-back / direct mapped / 10 ns / synchronous pipelined burst			No video in/out	Video in/out and cable
Removable diskette	3.5" 1.44 MB ○ / in UltraBay			No joystick/MIDI port	Joystick/MIDI port
External FDD port	External FDD port			No MPEG decoder	MPEG decoder
Removable CD-ROM	None / <b>upgrade CD-ROM</b>			Lighter	Heavier
Price	None / can not install a CD-ROM (too thin)			Price	Price
Type - model	<b>9546-U3B</b>	<b>9546-U3L</b>	<b>9546-U4B</b>	<b>9546-U4A</b>	
Preload (see side)	<b>Windows 95</b>	<b>Blank</b>	<b>Windows 95</b>	<b>Windows 95</b>	<b>WINDOWS 95 PRELOAD</b>
Avail / withdrawn date	May 1996 / Jan 1997		May 1996 / Jan 1997	May 1996 / Jan 1997	- Microsoft Windows 95
Pentium speed	<b>120/60 MHz</b>		<b>120/60 MHz</b>	<b>133/66 MHz</b>	- Online User's Guide
Remv disk - size / ms	<b>1.2 GB / 12 ms</b> ○		<b>810 MB / 13 ms</b> ○	<b>1.08 GB / 13 ms</b> ○	- ThinkPad Features
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks				- PC Card Director 4.0
Display - size and type	<b>12.1 inch SVGA color / 640 x 480 or 800 x 600 / 65,536 simultaneous colors</b>				
Display - technology	<b>Black Matrix TFT - active matrix / 100 to 1 contrast ratio</b>				
Graphics - controller	Trident™ CYBER9320 / 32 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns				
Graph - arch/data path	PCI 2.1 / 32 bit / external SVGA to 1024 x 768 w/ 256 colors				
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt				
Memory - std / max	<b>8 MB / 72 MB or 104 MB   8 MB / 72 MB or 104 MB   16 MB / 80 or 104 MB</b>				
Memory - features	70 ns / non-parity / 3.3 volt / EDO				
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB				
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)				
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)				
Pointing / palm rest	<b>TrackPoint III™</b> / integrated palm rest / ext keyboard support (w/ optional cable)				
Dimensions	11.7 x 8.3 x 2.14" (208)		11.7 x 8.3 x 1.92" (186 cubic inches)		
Weight	7.06 pounds (3.20 kg)		6.76 pounds (3.07 kg)		
Battery - type	Lithium Ion / intelligent		<i>optional NiMH</i>		
Battery - life (1 batt)	3.4 hours				
Battery - life (2 batt)	6.8 hours				
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs				
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion)				
Docking Station	Dock I and II / <b>SelectaDock I and II</b>				
Port replicator	Port Replicator I and II / <b>SelectaDock Base Model I</b>				
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible				
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot				
Video in/out	None				
MPEG decoder	None				
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>				
Data/fax modem	<b>Data/fax modem function via DSP</b> (v.34 to 28.8 Kbps) / Mwave 2.1				
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b> <b>Int stereo speakers / .5 watt / slide volume control / internal microphone</b>				
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm)				
Telephone	Telephone / answering machine / full duplex speakerphone / DSVD				
Infrared ports	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>				
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate				
Preinstalled software	Windows 95 with applications (listed on right)				
Warranty	<b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in				
The left bay (UltraBay™) supports:		Compatible in ThinkPad 760E family:			
① 2nd disk (requires Second HDD Adapter)		- Second HDD Adapter 29H9333			
② 2nd battery		- Dock I (1 slot / 1 bay) 3545001			
③ std diskette drive		- Dock II (2 slot / 2 bay) 3546001			
④ 2.88 MB diskette drive (option)		- IDE Conversion Card (for Dock I/II) 46H5994			
⑤ PCMCIA Cartridge (option)		- <b>SelectaDock I</b> 3547001			
⑥ IBM Wireless Modem for ARDIS (option)		- <b>SelectaDock II</b> 3547002			
⑦ IBM Wireless Modem for Cellular/CDPD (option)		- Port Replicator I (w/ PCMCIA slots) 66G3510			
Maximum internal disk capacity on 760E is 4.2 GB with two 2.1 GB disks (thick models) or 2.8 GB with two 1.4 GB disks (thin models)		- Port Replicator II 66G3520			
Easy-Setup is entered by holding F1 when turning on.		- <b>SelectaDock Base Model I</b> 39H7405			
Integrated Mwave™ DSP provides:		- 2.88 MB diskette drive 66G0108			
① <b>Data modem function</b> (to 28.8 Kbps)		- PCMCIA Cartridge (one Type III) 84G1301			
② <b>Fax modem function</b> (to 14.4 Kbps)		- FDD External Attachment Kit 66G3618			
③ <b>Audio function</b> (wave table synthesis)		- Pentium 133/66 MHz/L2 upgrade 46H5991			
④ <b>Telephone function</b>		- 35 watt AC Adapter (slim, 4 pin) 76H0119			
- Full duplex speakerphone		- <b>4 x CD-ROM</b> (for thick model) 39H7413			
⑤ <b>Digital Simultaneous Voice and Data</b>		- <b>6 x CD-ROM</b> (for thick model) 85G1957			
		- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340			
		- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341			
		- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342			
<p>Easy-Setup is entered by holding F1 when turning on.</p> <p>Memory is upgradeable to 104 MB with a ThinkPad Proven option.</p> <p>ThinkPad 760E supported batteries:</p> <ul style="list-style-type: none"> <li>- 760 NiMH Battery (black) 41H9720</li> <li>- Li-Ion Battery Pack II (gray) 29H9329</li> <li>- Travel Quick Charger 85G1522</li> <li>- Car Battery Adapter 49G2167</li> </ul> <p>ThinkPad 760E supported disks:</p> <ul style="list-style-type: none"> <li>- (360/750/755 IDE disks not supported)</li> <li>- 720 MB HDD II EIDE 12.5 mm 29H9383</li> <li>- 810 MB HDD II EIDE 12.5 mm 29H9313</li> <li>- 1.08 GB HDD II EIDE 12.5 mm 29H9319</li> <li>- 1.2 GB (1.96" or higher models) 29H9325</li> <li>- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412</li> <li>- 2.1 GB (1.96" or higher models) 69H8414</li> </ul> <p><b>FEATURES OF 760 MODELS</b></p> <ul style="list-style-type: none"> <li>Setup Pointer (single page)</li> <li><b>LCD indicator panel</b></li> <li>Plug and Play 1.0a</li> <li>Discharge battery via mouse click</li> <li>Non-disruptive battery exchange</li> <li>Standby, suspend, safe suspend, and hibernation modes</li> <li>US EPA Energy Star compliant</li> <li>Personalized nameplate in indentation</li> <li>Personalization screen at startup</li> <li><b>International Warranty Service</b></li> <li><b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet</b> (<a href="http://www.pc.ibm.com">http://www.pc.ibm.com</a>) support</li> <li><b>IBM and dealer warranty/service</b></li> <li><b>Online Housecall (remote diagnostics)</b></li> </ul>					

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○ = Removable

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(760E) Compiled by Roger Dodson, IBM. December 1996

# IBM ThinkPad 760E (XGA) - withdrawn

<b>IBM® ThinkPad®:</b> <b>≈ 760E</b> 12.1" XGA color - thick		Key differences between 760E and 760ED:	
Processor type Processor upgrade L2 cache Removable diskette External FDD port Removable CD-ROM	<b>Pentium® 150/60 (P54CSLM)</b> / 64 bit to L2 cache / 64 bit to memory None <b>256 KB</b> / write-back / direct mapped / 10 ns / synchronous pipelined burst 3.5" 1.44 MB ○ / in UltraBay External FDD port (requires External FDD Attachment Kit 66G3618) None / <b>can upgrade with optional CD-ROM into UltraBay</b>	<b>760E</b> No std CD-ROM No video in/out No joystick/MIDI port No MPEG decoder Lighter Price	<b>760ED</b> Standard CD-ROM Video in/out and cable Joystick/MIDI port MPEG decoder Heavier Price
Price Type - model Preload (see side) Remv disk - size / ms Disk controller Avail / withdrawn date	<b>9546-U9B</b> <b>Windows 95</b> <b>2.1 GB</b> / 12 ms ○ EIDE / busmaster / PCI 2.1 / supports two internal disks (so 4.2 GB max) October 1996 / October 1997	<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 - Online User's Guide - ThinkPad Features - PC Card Director 4.0 - Diskette Factory 1. Triton CoSession™ Host 2. SofNet FaxWorks™ Voice™ 3. Puma TranXit™ 4. Compuserv for Windows 5. NetFinity for Windows 95 - Lotus SmartSuite 96 CD-ROM	
Display - size and type Display - technology	<b>12.1 inch XGA color / 640 x 480, 800 x 600, or 1024 x 768 / 65,536 siml colors</b> <b>Black Matrix TFT - active matrix</b> / 100 to 1 contrast ratio		
Graphics - controller Graph - arch/data path Graphics - features Graphics - external	Trident™ CYBER9385 / 64 bit SVGA accelerator / <b>2 MB EDO DRAM</b> / 70 ns PCI 2.1 / 32 bit / <b>DCI, DirectDraw, EnDIVE support</b> Simultaneous LCD and CRT / 180 degree tilt External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors	Easy-Setup is entered by holding F1 when turning on.  810 MB = DMA Mode 2 or PIO Mode 4 1.08 GB = DMA Mode 2 or PIO Mode 4 1.2 GB = DMA Mode 1 or PIO Mode 3 1.35 GB = DMA Mode 2 or PIO Mode 4 2.1 GB = DMA Mode 2 or PIO Mode 4	
Memory - std / max Memory - features Memory - upgrade	<b>16 MB</b> / 80 MB (104 MB with ThinkPad Proven option) 70 ns / non-parity / 3.3 volt / EDO 2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB		
Keyboard / # of keys Keyboard slope Pointing / palm rest	Full size alp/num / 85 (8 Fn key functions) <b>Automated tilt up keyboard</b> (5.5 degrees) <b>TrackPoint III™</b> / integrated palm rest / ext keyboard support (w/ optional cable)	<b>ThinkPad 760E supported batteries:</b> - 760 NiMH Battery (black)            41H9720 - Li-Ion Battery Pack II (gray)        29H9329 - Travel Quick Charger                85G1522 - Car Battery Adapter                  49G2167  <b>ThinkPad 760E supported disks:</b> - (360/750/755 IDE disks not supported) - 720 MB HDD II EIDE    12.5mm    29H9383 - 810 MB HDD II EIDE    12.5mm    29H9313 - 1.08 GB HDD II EIDE    12.5mm    29H9319 - 1.2 GB (1.96"+ models) 17mm    29H9325 - 1.4 GB HDD 3L EIDE    12.5mm    69H8412 - 2.1 GB (1.96"+ models) 17mm    69H8414 - 3.0 GB (1.96"+ models) 17mm    45H8789 - 5.1 GB (1.96"+ models) 17mm    00K7902	
Dimensions Weight	11.7 x 8.3 x 2.0" (194 cubic inches) 6.41 pounds (2.91 kg)		
Battery - type Battery - life (1 batt) Battery - life (2 batt) Charge time - on / off	Lithium Ion / intelligent <i>optional</i> 2.6 hours <i>NiMH</i> 5.2 hours 2 to 3 hrs / 1.5 to 2.5 hrs	<b>Liftable (pop-up) keyboard to access and remove diskette drive, 1st/2nd disk, and 1st/2nd battery (thick models support CD-ROM)</b>	
Architecture Docking Station Port replicator PC Card Standard slots Serial / parallel ports Other features	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, ext expansion) Dock I and II / <b>SelectaDock I and II and III</b> Port Replicator I and II / <b>SelectaDock Base Model I</b> 2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot	<b>ThinkPad 760E supported disks:</b> <b>FEATURES OF 760 MODELS</b> Setup Pointer (single page) <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>	
Video in/out MPEG decoder DSP function Data/fax modem Audio support	None None <b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b> <b>Data/fax modem function via DSP</b> (v.34 to 33.6 Kbps) / Mwave 2.1 <b>16 bit audio chip on planar with Mwave DSP</b> <b>Int stereo speakers / .5 watt / slide volume control / internal microphone</b> Input jack (3.5 mm) / Output jack (3.5 mm)		
Jacks Telephone Infrared ports	Telephone / answering machine / full duplex speakerphone / DSVD Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs	<b>Security</b> Power-on password / Hard disk password / Supervisor password / Security keyhole / Security latch for keyboard and DIMMS (requires cable lock) / PC Card lock / Personalization / Security Plate	
Security	Power-on password / Hard disk password / Supervisor password / Security keyhole / Security latch for keyboard and DIMMS (requires cable lock) / PC Card lock / Personalization / Security Plate		
Preinstalled software Warranty	Windows 95 with applications (listed on right) <b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	<b>The left bay (UltraBay™) supports:</b> ① 2nd disk (requires Second HDD Adapter) ② 2nd battery ③ std diskette drive ④ 2.88 MB diskette drive (option) ⑤ PCMCIA Cartridge (option) ⑥ IBM Wireless Modem for ARDIS (option) ⑦ IBM Wireless Modem for Cellular/CDPD (option)  Maximum internal disk capacity on 760E is 10.2 GB with two 5.1 GB disks  Easy-Setup is entered by holding F1 when turning on.  Integrated Mwave™ DSP provides: ① <b>Data modem function</b> (to 28.8 Kbps) ② <b>Fax modem function</b> (to 14.4 Kbps) ③ <b>Audio function</b> (wave table synthesis) ④ <b>Telephone function</b> - Full duplex speakerphone ⑤ <b>Digital Simultaneous Voice and Data</b>	
<b>Compatible in ThinkPad 760E family:</b> - Second HDD Adapter                    29H9333 - Dock I (1 slot / 1 bay)                    3545001 - Dock II (2 slot / 2 bay)                    3546001 - IDE Conversion Card (for Dock I/II)    46H5994 - <b>SelectaDock I</b> <b>3547001</b> - <b>SelectaDock II</b> <b>3547002</b> - <b>SelectaDock III</b> <b>3547003</b> - Port Replicator I (w/ PCMCIA slots)    66G3510 - Port Replicator II                            66G3520 - <b>SelectaDock Base Model I</b> <b>39H7405</b> - 2.88 MB diskette drive                    66G0108 - PCMCIA Cartridge (one Type III)        84G1301 - FDD External Attachment Kit            66G3618 - 35 watt AC Adapter (slim, 4 pin)        76H0119 - <b>4 x CD-ROM</b> (UltraBay) <b>39H7413</b> - <b>6 x CD-ROM</b> (UltraBay) <b>85G1957</b> - <b>8 x CD-ROM</b> (UltraBay) <b>45H8786</b> - <b>8 - 20 x CD-ROM</b> (UltraBay) <b>00K7903</b> - <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>92G7340</b> - <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>92G7341</b> - <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> <b>92G7342</b>			

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
 ○ = Removable

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 No warranties are expressed or implied in this summary  
 (760E96) Compiled by Roger Dodson, IBM. October 1997



# IBM ThinkPad 760ED (SVGA) - withdrawn

<b>IBM® ThinkPad®:</b>	<b>≈ 760ED</b> 12.1" SVGA TFT - 4 x CD-ROM - Enhanced Video - MPEG	<b>ThinkPad 760ED strengths over 760CD:</b> ↗ <b>Pentium 133/66 MHz</b> (vs 120/60 MHz) ↗ <b>PCI bus</b> (vs VL-Bus) ↗ <b>16 MB EDO memory</b> (vs 8 MB fast page) ↗ <b>64 bit path to memory</b> (vs 32 bit) ↗ <b>9385 64 bit graphics with 2 MB EDO</b> ↗ <b>CardBus PC Card support (32 bit PCI)</b>
Processor type	<b>Pentium® 133/66</b> (P54CSLM) / 64 bit to L2 cache / 64 bit to memory	
Processor upgrade	None	Integrated Mwave™ DSP provides: ① <b>Data modem function</b> - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps) ② <b>Fax modem function</b> - G3 fax send/receive (14.4 Kbps) ③ <b>Audio function</b> - Stereo waveform record and playback - Qsound support (3-D effect) - 32 voice MIDI wave table synthesizer - SoundBlaster™ support / text to speech - MPEG audio decode ④ <b>Telephone function</b> - Full telephone (can use opt headset) - Telephone answering machine - Full duplex speakerphone ⑤ <b>Digital Simultaneous Voice Data</b>
L2 cache	256 KB / write-back / direct mapped / 10 ns / synchronous pipelined burst	
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port	<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 - Online User's Guide - ThinkPad Features - PC Card Director 4.0 - Diskette Factory 1. Triton CoSession™ Host; 2. PRODIGY® 3. SofNet FaxWorks™ Voice™ 4. Puma TranXit™ 5. Compuserver for Windows 6. NetFinity for Windows 95 7. Asymetrix® Digital Video Producer™ 8. MPEG Sampler (CD-ROM) - Lotus SmartSuite 96 CD-ROM
External FDD port	External FDD port (requires External FDD Attachment Kit 66G3618)	
Removable CD-ROM	<b>5.25" CD-ROM ○ / 4 x speed</b> / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices	<b>Easy-Setup</b> is entered by holding F1 when turning on.  ThinkPad 760ED supported batteries: - 760 NiMH Battery (black) 41H9720 - Li-Ion Battery Pack II (gray) 29H9329 - Travel Quick Charger 85G1522 - Car Battery Adapter 49G2167  ThinkPad 760E supported disks: - (360/750/755 IDE disks not supported) - 720 MB HDD II EIDE 12.5mm 29H9383 - 810 MB HDD II EIDE 12.5 mm 29H9313 - 1.08 GB HDD II EIDE 12.5mm 29H9319 - 1.2 GB (1.96" or higher models) 29H9325 - 1.4 GB HDD 3L EIDE 12.5 mm 69H8412 - 2.1 GB (1.96" or higher models) 69H8414
Type - model	<b>9546-U3A</b>	
Preload (see side)	<b>Windows 95</b>	<b>FEATURES OF 760 MODELS</b> Setup Pointer (single page) <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>
Remv disk - size / ms	<b>1.2 GB</b> / 12 ms ○ / DMA Mode 1 or PIO Mode 3	
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks	<b>Enhanced Video Card</b> in 760ED provides: - <b>Composite in</b> and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay. - <b>Composite out</b> and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad. - <b>Mini game port</b> for MIDI or joystick - Includes video in and video out ports (includes one video in/out cable) - Use software called Digital Video Producer™ - <b>Hardware acceleration</b> of Video for Windows™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled  - <b>Plays back MPEG motion videos, CD-I movies, video CDs, and Karaoke MPEG video titles</b> (at 640 x 480, 800 x 600, or externally at 1024 x 768)
Avail / withdrawn date	May 1996 / January 1997	
Display - size and type	<b>12.1 inch SVGA color / 640 x 480 or 800 x 600 / 262,166 simultaneous colors</b>	Compatible in ThinkPad 760ED family: - Second HDD Adapter 29H9333 - Dock I (1 slot / 1 bay) 3545001 - Dock II (2 slot / 2 bay) 3546001 - IDE Conversion Card (for Dock I/II) 46H5994 - <b>SelectaDock I</b> 3547001 - <b>SelectaDock II</b> 3547002 - Port Replicator I (w/ PCMCIA slots) 66G3510 - Port Replicator II 66G3520 - <b>SelectaDock Base Model I</b> 39H7405 - 2.88 MB diskette drive 66G0108 - PCMCIA Cartridge (one Type III) 84G1301 - FDD External Attachment Kit 66G3618 - 35 watt AC Adapter (slim, 4 pin) 76H0119 - <b>4 x CD-ROM</b> (UltraBay) 39H7413 - <b>6 x CD-ROM</b> (UltraBay) 85G1957 - <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340 - <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341 - <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342
Display - technology	<b>Black Matrix TFT - active matrix</b> / 100 to 1 contrast ratio	
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / <b>2 MB EDO DRAM</b> / 70 ns	<b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery</b>
Graph - arch/data path	PCI 2.1 / 32 bit / <b>DCI, DirectDraw, EnDIVE support</b>	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt	The left bay (UltraBay™) supports: ① 2nd disk; ② 2nd battery ③ std diskette drive; ④ CD-ROM ⑤ 2.88 MB diskette (option) ⑥ PCMCIA Cartridge (option) ⑦ IBM Wireless Modem ARDIS (option) ⑧ IBM Wireless Modem for Cellular/ CDPD (option)
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors	
Memory - std / max	<b>16 MB</b> / 80 MB (104 MB with ThinkPad Proven option) 70 ns / non-parity / 3.3v	- Full duplex speakerphone - Full duplex speakerphone
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB	
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	- Full duplex speakerphone - Full duplex speakerphone
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)	
Pointing / palm rest	<b>TrackPoint III™</b> / integrated palm rest	- Full duplex speakerphone - Full duplex speakerphone
Ext keyboard support	Yes (with option cable)	
Dimensions	11.7 x 8.3 x 2.14" (208 cubic inches)	- Full duplex speakerphone - Full duplex speakerphone
Weight (with CD-ROM)	7.38 pounds (3.35 kg)	
Battery - type	Lithium Ion / intelligent <i>optional NiMH</i>	- Full duplex speakerphone - Full duplex speakerphone
Battery - life (1 batt)	2.8 hours	
Battery - life (2 batt)	5.6 hours	- Full duplex speakerphone - Full duplex speakerphone
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion)	- Full duplex speakerphone - Full duplex speakerphone
Docking Station	Dock I and II / <b>SelectaDock I and II</b>	
Port replicator	Port Replicator I and II / <b>SelectaDock Base Model I and II</b>	- Full duplex speakerphone - Full duplex speakerphone
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	- Full duplex speakerphone - Full duplex speakerphone
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot	
Video in/out	<b>Composite and S-Video in/out / game port</b>	- Full duplex speakerphone - Full duplex speakerphone
MPEG decoder	<b>MPEG-1 &amp; MPEG-2 Half Horizontal Resolution (HHR) decoder</b> (MPEGCD1)	
DSP function	<b>Mwave MDSP2780 DSP with modem, fax, audio, telephony function</b>	- Full duplex speakerphone - Full duplex speakerphone
Data/fax modem	<b>Data/fax modem function via DSP</b> (v.34 to 28.8 Kbps) / Mwave 2.1	
Audio support	<b>16 bit audio chip on planar with Mwave DSP</b> <b>Int stereo speakers / .5 watt / slide volume control / internal microphone</b> Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)	- Full duplex speakerphone - Full duplex speakerphone
Jacks	Telephone / answering machine / full duplex speakerphone / DSVD	
Telephone	<b>Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs</b>	- Full duplex speakerphone - Full duplex speakerphone
Infrared ports		
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMs (requires Kensington) / PC Card lock / Personalization / Security Plate	- Full duplex speakerphone - Full duplex speakerphone
Preinstalled software	Windows 95 with applications (listed on right)	
Warranty	<b>3 year</b> - ThinkPad EasyServ (optional Overnight Repair Option) or carry-in	- Full duplex speakerphone - Full duplex speakerphone

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
○ = Removable

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No warranties are expressed or implied in this summary  
(760ED) Compiled by Roger Dodson, IBM. December 1996

# IBM ThinkPad 760ED (XGA) - withdrawn

<b>IBM® ThinkPad®:</b>	≈ 760ED		<b>ThinkPad 760ED strengths over 760CD:</b>
Processor type	12.1" XGA TFT - 6 x CD-ROM - Enhanced Video - MPEG		
Processor upgrade	Pentium® 133/66 (P54CSLM) / 64 bit to L2 cache / 64 bit to memory		<ul style="list-style-type: none"> <li>➤ Pentium 133/66 MHz (vs 120/60 MHz)</li> <li>➤ PCI bus (vs VL-Bus)</li> <li>➤ 16 MB EDO memory (vs 8 MB fast page)</li> <li>➤ 64 bit path to memory (vs 32 bit)</li> <li>➤ 9385 64 bit graphics with 2 MB EDO</li> <li>➤ CardBus PC Card support (32 bit PCI)</li> </ul>
L2 cache	None		
Removable diskette	256 KB / write-back / direct mapped / 10 ns / synchronous pipelined burst		
External FDD port	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port		
Removable CD-ROM	External FDD port (includes Floppy Disk Drive Enclosure)		
Type - model	9546-U9A		<b>Integrated Mwave™ DSP provides:</b> <ul style="list-style-type: none"> <li>① <b>Data modem function</b> - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)</li> <li>② <b>Fax modem function</b> - G3 fax send/receive (14.4 Kbps)</li> <li>③ <b>Audio function</b> - Stereo waveform record and playback - Qsound support (3-D effect) - 32 voice MIDI wave table synthesizer - SoundBlaster™ support / text to speech - MPEG audio decode</li> <li>④ <b>Telephone function</b> - Full telephone (can use opt headset) - Telephone answering machine - Full duplex speakerphone</li> <li>⑤ <b>Digital Simultaneous Voice Data</b></li> </ul>
Preload (see side)	Windows 95		
Remv disk - size / ms	2.1 GB / 12 ms ○ / DMA Mode 2 or PIO Mode 4		
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 4.2 GB		
Avail / withdrawn date	October 1996 / October 1997		
Display - size and type	12.1 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors		
Display - technology	Black Matrix TFT - active matrix / 100 to 1 contrast ratio		
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / 2 MB EDO DRAM / 70 ns		
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support		
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt		
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors		
Memory - std / max	16 MB / 80 MB (104 MB w/ ThinkPad Proven option) 70 ns / non-parity / 3.3v / EDO		
Memory - upgrade	2 sockets for two JEDEC 144 pin EDO SO DIMMs of 8, 16, 32 MB		
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)		
Keyboard slope	Automated tilt up keyboard (5.5 degrees)		
Pointing / palm rest	TrackPoint III™ / integrated palm rest		
Ext keyboard support	Yes (with option cable)		
Dimensions	11.7 x 8.3 x 2.0" (194 cubic inches)		
Weight (with CD-ROM)	6.65 pounds (3.02 kg)		
Battery - type	Lithium Ion / intelligent	optional NiMH	<b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery</b>
Battery - life (1 batt)	2.2 hours		
Battery - life (2 batt)	4.4 hours		
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs		
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion)		
Docking Station	PCI 2.1 / 32 bit / 33 Mhz (EIDE, graphics, CardBus, MPEG, ext expansion)		
Port replicator	Dock I and II / <b>SelectaDock I and II and III</b>		
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible		
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)		
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot		
Video in/out	<b>Composite and S-Video in/out / game port</b>		
MPEG decoder	MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder (MPEGCD1)		
DSP function	Mwave MDSP2780 DSP with modem, fax, audio, telephony function		
Data/fax modem	Data/fax modem function via DSP (v.34 to 33.6 Kbps) / Mwave 2.1		
Audio support	16 bit audio chip on planar with Mwave DSP		
Jacks	Int stereo speakers / .5 watt / slide volume control / internal microphone		
Telephone	Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)		
Infrared ports	Telephone / answering machine / full duplex speakerphone / DSVD		
Security	Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs		
Preinstalled software	Power-on password / Hard disk password / Supervisor password / Security keyhole (requires cable) / Security latch for keyboard and DIMMS (requires cable) / PC Card lock / Personalization / Security Plate		
Warranty	Windows 95 with applications (listed on right)		
<b>Enhanced Video Card</b> in 760ED provides:	Compatible in ThinkPad 760ED family:		
- <b>Composite in</b> and S-Video in (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay.	- Second HDD Adapter 29H9333		
- <b>Composite out</b> and S-Video out to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad.	- Dock I (1 slot / 1 bay) 3545001		
- <b>Mini game port</b> for MIDI or joystick	- Dock II (2 slot / 2 bay) 3546001		
- Includes video in and video out ports (includes one video in/out cable)	- IDE Conversion Card (for Dock I/II) 46H5994		
- Use software called Digital Video Producer™	- <b>SelectaDock I</b> 3547001		
- <b>Hardware acceleration</b> of Video for Windows™ formerly done by a separate ASCII chip (as in 755CD and 760CD) has now been integrated into the 9385 graphics controller; interpolation in X and Y axis; color space conversion when DCI enabled	- <b>SelectaDock II</b> 3547002		
- <b>Plays back MPEG motion videos, CD-I movies, video CD's, and Karaoke MPEG video titles</b>	- <b>SelectaDock III</b> 3547003		
	- Port Replicator I (w/ PCMCIA slots) 66G3510		
	- Port Replicator II 66G3520		
	- <b>SelectaDock Base Model I</b> 39H7405		
	- 2.88 MB diskette drive 66G0108		
	- PCMCIA Cartridge (one Type III) 84G1301		
	- FDD External Attachment Kit 66G3618		
	- 35 watt AC Adapter (slim, 4 pin) 76H0119		
	- <b>4 x CD-ROM</b> (UltraBay) 39H7413		
	- <b>6 x CD-ROM</b> (UltraBay) 85G1957		
	- <b>8 x CD-ROM</b> (UltraBay) 45H8786		
	- <b>8 - 20 x CD-ROM</b> (UltraBay) 00K7903		
	- <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340		
	- <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341		
	- <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342		
	- 1.4 GB HDD II EIDE 12.5mm 29H9383		
	- 1.08 GB HDD II EIDE 12.5mm 29H9313		
	- 1.08 GB HDD II EIDE 12.5mm 29H9319		
	- 1.2 GB (1.96"+ models) 17 mm 29H9325		
	- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412		
	- 2.1 GB (1.96"+ models) 17 mm 69H8414		
	- 3.0 GB (1.96"+ models) 17 mm 45H8789		
	- 5.1 GB (1.96"+ models) 17 mm 00K7902		
	<b>FEATURES OF 760 MODELS</b>		
	Setup Pointer (single page)		
	<b>LCD indicator panel</b>		
	Plug and Play 1.0a		
	Discharge battery via mouse click		
	Non-disruptive battery exchange		
	Standby, suspend, safe suspend, and hibernation modes		
	US EPA Energy Star compliant		
	Personalized nameplate in indentation		
	Personalization screen at startup		
	<b>International Warranty Service</b>		
	<b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b>		
	<b>IBM and dealer warranty/service</b>		
	<b>Online Housecall (remote diagnostics)</b>		

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
○ = Removable

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(760ED96) Compiled by Roger Dodson, IBM. October 1997

# IBM ThinkPad 760XL - withdrawn

<b>IBM® ThinkPad®:</b> <b>≈ 760XL</b> 12.1" SVGA TFT - thick		
Processor type	<b>Pentium® MMX 166/66 MHz</b> (P55CLM) / 64 bit to L2 cache / 64 bit to memory	<b>WINDOWS 95 PRELOAD</b> <ul style="list-style-type: none"> <li>- Microsoft Windows 95 OSR2 (FAT16)</li> <li>- Online User's Guide</li> <li>- ThinkPad Features</li> <li>- Diskette Factory</li> <li>1. Lotus Organizer</li> <li>2. CompuServ for Windows</li> <li>3. Puma TranXit™</li> <li>4. NetFinity for Windows 95</li> <li>5. Triton CoSession™ Host</li> <li>6. IntelliLink Connect</li> <li>7. IBM AntiVirus</li> <li>8. IBM Internet Connection Services with Netscape Navigator web browser</li> <li>9. Registration Mailer</li> <li>- Lotus SmartSuite 96 CD-ROM</li> <li>- Recovery CD-ROM with boot diskette</li> <li>- Windows 95 CD-ROM (no installation)</li> </ul> <b>WINDOWS NT 4.0 PRELOAD</b> Microsoft Windows NT 4.0 Workstation with utilities and device drivers
Processor upgrade	None	
L2 cache	<b>256 KB</b> / write-back / direct mapped / 10 ns / synchronous pipelined burst	
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port	
External FDD port	External FDD port (requires FDD External Attachment Kit 66G3618)	
Removable CD-ROM	None / <b>can upgrade to 4 x, 6 x, 8 x, or 8-20 x CD-ROM into UltraBay</b>	
Type - model (code)	<b>9547-U9C</b> (Michigan MMX)   <b>9547-U9K</b> (Michigan MMX)	
Preload (see side)	<b>Windows 95 OSR2</b>   <b>Windows NT Workstation 4.0</b>	
Avail / withdrawn date	April 1997 / January 1998   April 1997 / January 1998	
Remv disk - size / ms	<b>2.1 GB</b> / 13 ms ○ / DMA Mode 2 or PIO Mode 4	
Disk controller	EIDE / busmaster / PCI 2.1 / supports two internal disks	
Display - size and type	<b>12.1 inch SVGA color / 640 x 480, 800 x 600 / 65,536 simultaneous colors</b>	
Display - technology	<b>Black Matrix TFT - active matrix</b> / 100 to 1 contrast ratio	
Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / 1 MB EDO DRAM / 70 ns	
Graph - arch/data path	PCI 2.1 / 32 bit / DCI, DirectDraw, ENVIDE support	
Graphics - features	Simultaneous LCD and CRT / 180 degree tilt	
Graphics - external	External SVGA to 1024 x 768 with 256 colors	
Memory - std / max	<b>16 MB</b> / 104 MB   <b>32 MB</b> / 104 MB	
Memory - sockets avail	2 sockets available   1 socket available (1 socket uses 16 MB)	
Memory - features	70 ns / non-parity / 3.3 volt / EDO / supports JEDEC 144 pin SO-DIMMs 8 MB in system; 8 MB on memory module with 2 SO-DIMM sockets Memory module under disk (not removable) and accessible by opening keyboard If use 64 MB SO-DIMM, the 8 MB on memory module is disabled via switch	
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)	
Keyboard slope	<b>Automated tilt up keyboard</b> (5.5 degrees)	
Pointing / palm rest	<b>TrackPoint III™</b> / integrated palm rest / ext keyboard support (with option cable)	
Dimensions	11.7 x 8.3 x 2.14" (208)	
Weight	6.7 pounds (3.05 kg)	
Battery - type	Lithium Ion / intelligent (optional NiMH battery supported)	
Battery - life (1 batt)	2.3 hours (4.6 hours with 2 batteries)	
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs	
Architecture	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, CardBus, ext expansion) Intel Mobile Triton 82430MX PCiset / T1 PCI1130 for CardBus	
Docking Station	Dock I and II / <b>SelectaDock I and II</b>	
Port replicator	Port Replicator I and II / <b>SelectaDock Base Model I</b>	
PC Card Standard slots	2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible	
Serial / parallel ports	One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)	
Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot	
Video in/out	None	
MPEG decoder	None	
DSP function	None	
Data/fax modem	None	
Audio support	<b>16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688</b> Int stereo speakers / .5 watt / slide volume control / internal microphone Input jack (3.5 mm) / output jack (3.5 mm)	
Jacks	None	
Telephone	None	
Infrared ports	<b>Infrared ports (front and back)</b> / IrDA 1.0 compatible / up to 115 kbs	
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate	
Warranty	<b>3 year</b> - ThinkPad EasyServ (depot repair service) or carry-in	
The left bay (UltraBay™) supports: ① 2nd disk (requires Second HDD Adapter) ② 2nd battery ③ Standard diskette drive ④ 2.88 MB diskette drive ⑤ CD-ROM  Maximum internal disk capacity on 760XL is 10.2 GB with two 5.1 GB disks  Easy-Setup is entered by holding F1 when turning on.  810 MB = DMA Mode 2 or PIO Mode 4 1.08 GB = DMA Mode 2 or PIO Mode 4 1.2 GB = DMA Mode 1 or PIO Mode 3 1.35 GB = DMA Mode 2 or PIO Mode 4 2.1 GB = DMA Mode 2 or PIO Mode 4 3.0 GB = DMA Mode 2 or PIO Mode 4 5.1 GB = Ultra DMA/33 or PIO Mode 4		<b>OPTIONS</b> <ul style="list-style-type: none"> <li>- Second HDD Adapter 29H9333</li> <li>- Dock I (1 slot / 1 bay) 3545001</li> <li>- Dock II (2 slot / 2 bay) 3546001</li> <li>- IDE Conversion Card (for Dock II) 46H5994</li> <li>- <b>SelectaDock I 3547001</b></li> <li>- <b>SelectaDock II 3547002</b></li> <li>- <b>SelectaDock III 3547003</b></li> <li>- Port Replicator I (w/ PCMCIA slots) 66G3510</li> <li>- Port Replicator II 66G3520</li> <li>- <b>SelectaDock Base Model I 39H7405</b></li> <li>- 2.88 MB diskette 66G0108</li> <li>- FDD External Attachment Kit 66G3618</li> <li>- 35 watt AC Adapter (slim, 4 pin) 76H0119</li> <li>- <b>4 x CD-ROM (UltraBay) 39H7413</b></li> <li>- <b>6 x CD-ROM (UltraBay) 85G1957</b></li> <li>- <b>8 x CD-ROM (UltraBay) 45H8786</b></li> <li>- <b>8-20 x CD-ROM (UltraBay) 00K7903</b></li> <li>- <b>8 MB SO DIMM 3.3v NP EDO 64 bit 92G7340</b></li> <li>- <b>16 MB SO DIMM 3.3v NP EDO 64 bit 92G7341</b></li> <li>- <b>32 MB SO DIMM 3.3v NP EDO 64 bit 92G7342</b></li> <li>- <b>64 MB SO DIMM 3.3v NP EDO 64 bit 76H0268</b></li> </ul>
		ThinkPad 760XL supported batteries: <ul style="list-style-type: none"> <li>- 760 NiMH Battery (black) 41H9720</li> <li>- Li-Ion Battery Pack II (gray) 29H9329</li> <li>- Travel Quick Charger 85G1522</li> <li>- Car Battery Adapter 49G2167</li> </ul> ThinkPad 760 supported disks: <ul style="list-style-type: none"> <li>- (360/750/755 IDE disks not supported)</li> <li>- 720 MB HDD II EIDE 12.5 mm 29H9383</li> <li>- 810 MB HDD II EIDE 12.5 mm 29H9313</li> <li>- 1.08 GB HDD II EIDE 12.5 mm 29H9319</li> <li>- 1.2 GB (1.96"+ models) 17 mm 29H9325</li> <li>- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412</li> <li>- 2.1 GB (1.96"+ models) 17 mm 69H8414</li> <li>- 3.0 GB (1.96"+ models) 17 mm 45H8789</li> <li>- 5.1 GB (1.96"+ models) 17 mm 00K7902</li> </ul>
		<b>FEATURES OF 760 MODELS</b> Quick Setup Guide (single page) <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service IBM SystemXtra Program</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

○ = Removable

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 No warranties are expressed or implied in this summary  
 (760XL) Compiled by Roger Dodson, IBM. December 1997

# IBM ThinkPad 760XD - withdrawn

IBM® ThinkPad®:	≈ 760XD 12.1" XGA TFT - 8 x CD-ROM - Enhanced Video - MPEG																																																
Processor type	Pentium® MMX 166/66 MHz (P55CLM) / 64 bit to L2 cache / 64 bit to memory																																																
Processor upgrade	None																																																
L2 cache	256 KB / write-back / direct mapped / 10 ns / synchronous pipelined burst																																																
Removable diskette	3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port																																																
External FDD port	External FDD port (includes Floppy Disk Drive Enclosure)																																																
Removable CD-ROM	5.25" CD-ROM ○ / 8 x speed / multi-session / XA / play with eject button EIDE / PIO Mode 3 (ATAPI) / in UltraBay which supports several devices																																																
Type - model (code)	9546-U9E (Michigan MMX)																																																
Preload (see side)	Windows 95 OSR2																																																
Remv disk - size / ms	3.0 GB / 12 ms ○ / DMA Mode 2 or PIO Mode 4 (C: is 1.99 GB, D: is 885 MB)																																																
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / supports two internal disks for 10.2 GB																																																
Avail / withdrawn date	April 1997 / January 1998																																																
Display - size and type	12.1 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors																																																
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Graphics - controller	Trident™ CYBER9385 / 64 bit SVGA accelerator / 2 MB EDO DRAM / 70 ns																																																
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Memory - std / max	32 MB / 104 MB 70 ns / non-parity / 3.3v / EDO																																																
Memory - upgrade	1 socket avail for one JEDEC 144 pin EDO SO-DIMM of 8, 16, 32, 64 MB																																																
Mem - implementation	8 MB in system; 8 MB on memory module; 16 MB DIMM in 1 socket; 1 socket avail Memory module under disk (not removable) and accessible by opening the keyboard																																																
Keyboard / # of keys	Full size alp/num / 85 (8 Fn key functions)																																																
Keyboard slope	Automated tilt up keyboard (5.5 degrees)		The left bay (UltraBay™) supports: ① 2nd disk; ② 2nd battery ③ std diskette drive; ④ std CD-ROM ⑤ 2.88 MB diskette																																														
Pointing / palm rest	TrackPoint III™ / integrated palm rest																																																
Ext keyboard support	Yes (with option cable)																																																
Dimensions / weight	11.7 x 8.3 x 2.0" (194 cubic inches) / 7.0 pounds (3.18 kg) with CD-ROM																																																
Battery - type	Lithium Ion / intelligent	optional NiMH	Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, 1st/2nd disk, and 1st/2nd battery																																														
Battery - life (1 batt)	2.0 hours (4 hrs with 2 batt)																																																
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Other features	APM-aware BIOS / Slim AC Adapter 2 prong (35 watts) / Selectable boot																																																
Video in/out	Composite and S-Video in/out / game port																																																
MPEG decoder	MPEG-1 & MPEG-2 Half Horizontal Resolution (HHR) decoder (MPEGCD1)																																																
DSP function	Mwave MDSP2780 DSP with modem, fax, audio, telephony function																																																
Data/fax modem	Data/fax modem function via DSP (v.34 to 33.6 Kbps) / Mwave																																																
Audio support	16 bit audio chip on planar with Mwave DSP Int stereo speakers / .5 watt / slide volume control / internal microphone Input jack (3.5 mm) / Output jack (3.5 mm) / Joystick/MIDI port (includes cable)																																																
Jacks	Telephone / answering machine / full duplex speakerphone / DSVD																																																
Telephone ports	Infrared ports (front and back) / IrDA 1.0 compatible / up to 115 kbs																																																
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			<p>Integrated Mwave™ DSP provides:</p> <p>① <b>Data modem function</b> - V.22bis, V.32, V.32bis, v.34 (28.8 Kbps)</p> <p>② <b>Fax modem function</b> - G3 fax send/receive (14.4 Kbps)</p> <p>③ <b>Audio function</b> - Stereo waveform record and playback - Qsound support (3-D effect) - 32 voice MIDI wave table synthesizer - SoundBlaster support / text to speech - MPEG audio decode</p> <p>④ <b>Telephone function</b> - Full telephone (can use opt headset) - Telephone answering machine - Full duplex speakerphone</p> <p>⑤ <b>Digital Simultaneous Voice Data</b></p> <p>Easy-Setup is entered by holding F1 when turning on.</p> <p>ThinkPad 760XD supported batteries:</p> <ul style="list-style-type: none"> <li>- 760 NiMH Battery (black) 41H9720</li> <li>- Li-Ion Battery Pack II (gray) 29H9329</li> <li>- Travel Quick Charger 85G1522</li> <li>- Car Battery Adapter 49G2167</li> </ul> <p>ThinkPad 760 supported disks:</p> <ul style="list-style-type: none"> <li>- (360/750/755 IDE disks not supported)</li> <li>- 720 MB HDD II EIDE 12.5 mm 29H9383</li> <li>- 810 MB HDD II EIDE 12.5 mm 29H9313</li> <li>- 1.08 GB HDD II EIDE 12.5 mm 29H9319</li> <li>- 1.2 GB (1.96"+ models) 17 mm 29H9325</li> <li>- 1.4 GB HDD 3L EIDE 12.5 mm 69H8412</li> <li>- 2.1 GB (1.96"+ models) 17 mm 69H8414</li> <li>- 3.0 GB (1.96"+ models) 17 mm 45H8789</li> <li>- 5.1 GB (1.96"+ models) 17 mm 00K7902</li> </ul> <p><b>FEATURES OF 760 MODELS</b></p> <p>Quick Setup Guide (single page) LCD indicator panel Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup International Warranty Service IBM SystemXtra Program 24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support IBM and dealer warranty/service Online Housecall (remote diagnostics)</p>																																														

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
○ = Removable

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No warranties are expressed or implied in this summary  
(760XD) Compiled by Roger Dodson, IBM. December 1997

# IBM ThinkPad 765L - withdrawn

<b>IBM® ThinkPad®:</b> 765L 13.3" XGA TFT		
Processor type Processor upgrade L2 cache Removable diskette External FDD port Removable CD-ROM	<b>Pentium® MMX 166/66 MHz</b> (P55CLM) / 64 bit to L2 cache / 64 bit to memory None <b>256 KB</b> / write-back / direct mapped / 10 ns / synchronous pipelined burst 3.5" 1.44 MB ○ / use in UltraBay or attach externally via rear ext FDD port External FDD port (requires FDD External Attachment Kit 66G3618) None / <b>can upgrade to 4 x or 6 x or 8 x CD-ROM into UltraBay</b>	<b>WINDOWS 95 PRELOAD</b> - Microsoft Windows 95 OSR2 (FAT16) - Online User's Guide - ThinkPad Features - Diskette Factory 1. Lotus Organizer 2. CompuServ for Windows 3. Puma TranXit™ 4. NetFinity for Windows 95 5. Triton CoSession™ Host 6. IntelliLink Connect 7. IBM AntiVirus 8. IBM Internet Connection Services with Netscape Navigator web browser 9. Registration Mailer 10. ThinkPad on the NET 11. America Online - Lotus SmartSuite 96 CD-ROM - Recovery CD-ROM with boot diskette - Windows 95 CD-ROM (no installation)
Type - model (code) Preload (see side) Avail / withdrawn date Remv disk - size / ms Disk controller	<b>9547-U9J</b> <b>Windows 95 OSR2</b> June 1997 / July 1998 <b>3.0 GB</b> / 12 ms ○ / DMA Mode 2 or PIO Mode 4 (C: is 1.99 GB, D: is 885 MB) EIDE / busmaster / PCI 2.1 / supports two internal disks / SMART	
Display - size and type Display - technology	<b>13.3 inch XGA color / 640 x 480, 800 x 600 or 1024 x 768 / 65,536 siml colors</b> <b>Black Matrix TFT - active matrix</b> / 100 to 1 contrast ratio	
Graphics - controller Graph - arch/data path Graphics - features Graphics - external	Trident™ CYBER9385 / 64 bit SVGA accelerator / <b>2 MB EDO DRAM</b> / 70 ns PCI 2.1 / 32 bit / DCI, DirectDraw, EnDIVE support Simultaneous LCD and CRT / 180 degree tilt External SVGA to 1280 x 1024 w/ 256 colors or 1024 x 768 w/ 65,536 colors	
Memory - std / max Memory - sockets avail Memory - features	<b>32 MB</b> / 104 MB 1 socket available (1 socket uses 16 MB) 70 ns / non-parity / 3.3 volt / EDO / supports JEDEC 144 pin SO-DIMMs 8 MB in system; 8 MB on memory module with 2 SO-DIMM sockets Memory module under disk (not removable) and accessible by opening keyboard If use 64 MB SO-DIMM, the 8 MB on memory module is disabled via switch	
Keyboard / # of keys Keyboard slope Pointing / palm rest	Full size alp/num / 85 (8 Fn key functions) <b>Automated tilt up keyboard</b> (5.5 degrees) <b>TrackPoint III™</b> / integrated palm rest / ext keyboard support (with option cable)	
Dimensions Weight	11.7 x 9.3 x 2.23" (243 cubic inches) 7.4 pounds (3.34 kg)	
Battery - type Battery - life (1 batt) Charge time - on / off	Lithium Ion / intelligent ( <i>optional NiMH battery supported</i> ) 2.1 hours (4.2 hours with 2 batteries) 2 to 3 hrs / 1.5 to 2.5 hrs	
Architecture  Docking Station Port replicator PC Card Standard slots Serial / parallel ports Other features	ISA (audio, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32 bit / 33 MHz (EIDE, graphics, CardBus, ext expansion) Intel Mobile Triton 82430MX PCiset / T1 PCI1130 for CardBus <b>SelectaDock I and II and III</b> Port Replicator I and II / <b>SelectaDock Base Model I</b> 2 Type I or 2 Type II or 1 Type III / <b>CardBus 32 bit PCI</b> / PCMCIA 2.1 compatible One 9 pin; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional) APM-aware BIOS / AC Adapter 4 pin 3 prong (56 watts) / Selectable boot	
Video in/out MPEG decoder DSP function Data/fax modem Audio support	None None None None <b>16 bit audio chip / 20 voice MIDI FM synthesis / ESS1688</b> Int stereo speakers / .5 watt / slide volume control / internal microphone Input jack (3.5 mm) / output jack (3.5 mm)	
Jacks Telephone Infrared ports	None None <b>Infrared ports (front and back)</b> / IrDA 1.0 compatible / up to 115 kbs	
Security	Power-on password / Hard disk password / Supervisor password / Locking device keyhole (Kensington™ cable lock) / Security latch for keyboard and DIMMS (requires Kensington) / PC Card lock / Personalization / Security Plate	
Warranty Service options	<b>3 year</b> - ThinkPad EasyServ (depot repair service) or carry-in On-site, M-F, 8-5, next bus day (71 cities) / Warranty extension to 5 years	
The left bay (UltraBay™) supports: ① 2nd disk (requires Second HDD Adapter) ② 2nd battery ③ Standard diskette drive ④ 2.88 MB diskette drive ⑤ CD-ROM  Maximum internal disk capacity on 765L is 10.2 GB with two 5.1 GB disks  Easy-Setup is entered by holding F1 when turning on.  810 MB = DMA Mode 2 or PIO Mode 4 1.08 GB = DMA Mode 2 or PIO Mode 4 1.2 GB = DMA Mode 1 or PIO Mode 3 1.35 GB = DMA Mode 2 or PIO Mode 4 2.1 GB = DMA Mode 2 or PIO Mode 4 3.0 GB = DMA Mode 2 or PIO Mode 4 5.1 GB = Ultra DMA/33 or PIO Mode 4	- Second HDD Adapter 29H9333 - IDE Conversion Card (for Dock II) 46H5994 - <b>SelectaDock I</b> 3547001 - <b>SelectaDock II</b> 3547002 - <b>SelectaDock III</b> 3547003 - Port Replicator I (w/ PCMCIA slots) 66G3510 - Port Replicator II 66G3520 - <b>SelectaDock Base Model I</b> 39H7405 - 2.88 MB diskette 66G0108 - FDD External Attachment Kit 66G3618 - 56 watt AC Adapter (4 pin; 3 prong) 12J2456 - <b>6 x CD-ROM</b> (UltraBay) 85G1957 - <b>8 x CD-ROM</b> (UltraBay) 45H8786 - <b>8-20 x CD-ROM</b> (UltraBay) 00K7903 - <b>8 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7340 - <b>16 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7341 - <b>16 MB SO DIMM NP EDO 64 bit (new)</b> 01K1124 - <b>32 MB SO DIMM 3.3v NP EDO 64 bit</b> 92G7342 - <b>64 MB SO DIMM 3.3v NP EDO 64 bit</b> 76H0268 - PCMCIA 33.6 Kbps modem w/ XJACK 55H6759 - 56K PC Card Modem Kit 04K0052	
	<b>ThinkPad 765L supported batteries:</b> - 760 NiMH Battery (black) 41H9720 - Li-Ion Battery Pack II (gray) 29H9329 - Travel Quick Charger 85G1522 - Car Battery Adapter 49G2167  <b>ThinkPad 760 supported disks:</b> - (360/750/755 IDE disks not supported) - 720 MB HDD II EIDE 12.5 mm 29H9383 - 810 MB HDD II EIDE 12.5 mm 29H9313 - 1.08 GB HDD II EIDE 12.5 mm 29H9319 - 1.2 GB (1.96"+ models) 17 mm 29H9325 - 1.4 GB HDD 3L EIDE 12.5 mm 69H8412 - 2.1 GB (1.96"+ models) 17 mm 69H8414 - 3.0 GB (1.96"+ models) 17 mm 45H8789 - 5.1 GB (1.96"+ models) 17 mm 00K7902	
	<b>FEATURES OF 765 MODELS</b> Quick Setup Guide (single page) <b>LCD indicator panel</b> Plug and Play 1.0a Discharge battery via mouse click Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes US EPA Energy Star compliant Personalized nameplate in indentation Personalization screen at startup <b>International Warranty Service</b> <b>IBM System Care Program</b> <b>24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet (http://www.pc.ibm.com) support</b> <b>IBM and dealer warranty/service</b> <b>Online Housecall (remote diagnostics)</b>	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).  
 ○ = Removable

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 No warranties are expressed or implied in this summary  
 (765L) Compiled by Roger Dodson, IBM. June 1998



# IBM ThinkPad® 770 - withdrawn

<b>IBM® ThinkPad®:</b>		<b>WINDOWS 95 PRELOAD<sup>16</sup></b>				
Processor type/path	<b>Pentium® MMX™ 200/66 or 233/66MHz<sup>1</sup></b> (Tillamook) / 64bit to L2 and memory					
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel MMO					
L2 cache	<b>512KB</b> / write-back / direct mapped / 7ns data; 15ns tag / sync pipelined burst					
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay II or attach externally					
External FDD port	External diskette port (use std cable to attach diskette drive externally)					
CD-ROM (removable)	Option: <b>5.25" CD-ROM / 20X-8X<sup>5</sup> or 24X-10X<sup>5</sup> speed</b> / CAV / bootable / hot swapping					
DVD (removable)	EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraBay II Option: <b>DVD-ROM drive</b> / 8 x to 16 x spd / CAV / use in UltraBay II / (DVD5/4.7GB) requires <i>DVD and Enhanced Video Adapter</i> for movie playback / sw enb AC-3 port					
Type - model	<b>9548-40U</b>	<b>9548-30U</b>	<b>9548-31U</b>	<b>9549-1AU</b>	<b>9548-32U (AAP)</b>	
Processor	<b>200/66MHz</b>	<b>233/66MHz</b>	<b>233/66MHz</b>	<b>233/66MHz</b>	<b>233/66MHz</b>	
Display (diagonal)	<b>13.3" XGA</b>	<b>13.3" XGA</b>	<b>13.3" XGA</b>	<b>14.1" XGA</b>	<b>13.3" XGA</b>	
Disk (removable)	<b>3.2GB<sup>4</sup> / PIO4</b>	<b>4GB / PIO4</b>	<b>4GB / DMA33</b>	<b>5.1GB / PIO4</b>	None	
Preload (see side)	<b>W95 OSR2</b>	<b>W95 OSR2</b>	<b>NT 4.0 SP3</b>	<b>W95 OSR2</b>	Blank (no disk)	
DVD and Enh Vid Ad	Optional	Optional	Optional	<b>Standard</b>	Optional	
Modem	Opt PC Card	Opt PC Card	Opt PC Card	<b>33.6Kbps (upg)</b>	Opt PC Card	
Avail / withdrawn date	October 1997 / September 1998					
Memory - std / max	<b>32MB</b> / 256MB <sup>3</sup> non-parity / 3.3v / <b>SDRAM</b> / 83 or 100MHz					
Memory - upgrade	2 sockets available for two JEDEC 144 pin EDO or SDRAM SO-DIMMs Sockets accessed by removing screw on bottom / can mix SDRAM w/ 760-supported EDO					
Display - size (colors)	<b>XGA color / 640 x 480 (16M), 800 x 600 (16M), or 1024 x 768 (65,536 siml colors)</b>					
Display - technology	<b>Active Matrix TFT</b> - 100 to 1 contrast ratio / 180 degree tilt					
Graphics - controller	<b>Trident™ CYBER9397</b> / 64-bit SVGA accelerator / <b>2MB SGRAM</b> / 83MHz					
Graphics - arch	PCI 2.1 / Direct3D, DirectDraw, DirectVideo, ActiveMovie support / ZV interface					
Graphics - features	<b>3D hardware accelerator</b> / interpolation in X and Y axis / color space conversion					
Graphics - external	External SVGA to 1280 x 1024 w/ 256 colors (75Hz) or 1024 x 768 w/ 65,536 colors					
Disk (removable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART					
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / 430TX South Bridge / PIIX4 / supports two internal disks (16.2GB max) / DMA Mode 2, Ultra DMA/33, or PIO Mode 4					
Keyboard / Fn keys	Full size alp/num / 7 Fn key functions / integrated palm rest					
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)					
Pointing device	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top					
Dimensions	<b>1AU:</b> 12.3 x 10 x 2.2" (270 cubic in) / 7.8 pounds (3.55 kg) with battery/diskette					
Weight <sup>2</sup>	<b>Others:</b> 12.3 x 9.5 x 2.2" (257 cubic inches) / 7.4 pounds (3.35 kg) with batt/diskette					
Battery - type	Lithium Ion / intelligent / left side					
Battery - life (1 batt)	<b>1AU:</b> 3.5 hrs (7 hrs with second battery in UltraBay II) / <b>Others:</b> 4 hrs (8 hr w/ 2 batt)					
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs					
Architecture	ISA (audio, modem, diskette, serial, parallel, infrared, ext expansion) PCI 2.1 / 32-bit / 33Mhz (EIDE, graphics, CardBus, MPEG, USB, ext expansion) <b>Intel 430TX PClset</b> / TI PCI1250 for CardBus / LM75 digital thermometer					
Port replicator	<b>SelectaBase 770</b> / PC Card Enabler					
Docking Station	<b>SelectaDock III / SelectaDock I and II</b>					
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / <b>CardBus 32-bit PCI</b> / PCMCIA 2.1 / Zoomed Video					
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)					
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot					
Video in/out	<b>1AU or option:</b> Video in/out (composite and S-Video) / SAA7111A NTSC/PAL					
MPEG decoder	<b>1AU or option:</b> MPEG-2 / IBM MPEGCD1M / 2MB SDRAM; 100MHz					
Data/fax modem	<b>1AU:</b> 33.6Kbps (56Kbps upgradeable via x2 <sup>8</sup> ) / 14.4Kbps fax / telephony / integrated Mwave <sup>®</sup> 3780i DSP / international programmable DAA					
Audio support	16-bit / CS4237B / <b>SRS 3D audio</b> / FM synthesis / software decodes AC3 into stereo Int stereo speakers (front) / <b>1 watt</b> / rotary volume control (right) / int microphone					
Jacks	Input jack (3.5 mm) / Output jack (3.5 mm) / full duplex					
Infrared ports	Infrared ports (front and back) / IrDA 1.1 compatible / <b>up to 4Mbps</b>					
Security	Power-on password / Hard disk password / Supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays					
Limited warranty <sup>11</sup>	<b>3 year</b> - ThinkPad EasyServ (depot repair service) or carry-in / international					
Service options <sup>15</sup>	On-site, M-F, 8-5, next bus day (72 cities) / warranty extension to 5 years					
<b>DVD and Enhanced Video Adapter</b> provides (standard in 1AU; optional all others):		<ul style="list-style-type: none"> <li>- 5.1GB disk, 12ms, Ultra DMA/33 11J8947</li> <li>- 8.1GB disk, 12ms, Ultra DMA/33 02K0517</li> <li>- 2nd Disk Adapter (for 760/770 disks) 11J8836</li> <li>- <b>SelectaBase 770</b> <b>83H6735</b></li> <li>- SelectaDock I<sup>18</sup> 3547001</li> <li>- SelectaDock II<sup>18</sup> 3547002</li> <li>- <b>SelectaDock III<sup>18</sup></b> <b>3547003</b></li> <li>- <b>SelectaBase PC Card Enabler</b> <b>83H6741</b></li> <li>- <b>760 UltraBay Tray for SD III</b> <b>11J8839</b></li> <li>- 56 watt AC Adapter (barrel; 3 prong) 83H6739</li> <li>- <b>20X-8X CD-ROM Drive</b> (UltraBay II) 11J8933</li> <li>- <b>24X-10X CD-ROM Drive</b> (UltraBay II) 02K0516</li> <li>- <b>DVD CD-ROM Drive</b> (UltraBay II) 11J8950</li> <li>- DVD and Enh Video Adapter 11J8957</li> <li>- <b>16MB SO DIMM 3.3v NP SDRAM</b> <b>76H0293</b></li> <li>- <b>32MB SO DIMM 3.3v NP SDRAM</b> <b>76H0294</b></li> <li>- <b>64MB SO DIMM 3.3v NP SDRAM</b> <b>76H0295</b></li> <li>- 56K PC Card Modem Kit 04K0052</li> <li>- ThinkPad 770 Li-Ion Battery 83H6738</li> </ul>				
<ul style="list-style-type: none"> <li>- <b>MPEG-1, MPEG-2 HHR, and full MPEG-2 hardware decoder</b> (audio decoded via software)</li> <li>- <b>DVD movie playback</b> (MPEG-2 decoding; decryption and audio decoding via software)</li> <li>- <b>Video in</b> (composite and SVHS) (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay</li> <li>- <b>Video out</b> (composite and SVHS) to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad</li> <li>- <b>Dolby® Digital AC-3<sup>6</sup></b> (outputs undecoded Dolby Digital signal from AC-3 connector; CSA8404A); requires external AC3 decoder/amplifier</li> <li>- <b>Three ports</b> - ① video in, ② video out, ③ AC-3</li> <li>- Includes video in/out cable</li> </ul>		<ul style="list-style-type: none"> <li>- Microsoft® Windows® 95 OSR2 (FAT16)</li> <li>- Online User's Guide</li> <li>- ThinkPad Configuration Program</li> <li>- Diskette Factory Utilities</li> <li>1. Puma TranXit; 2. IBM AntiVirus</li> <li>3. Asymetrix Digital Video Producer (1AU)</li> <li>4. RingZero Ring Central (1AU only)</li> <li>5. Intelliquest Registration Mailer</li> <li>6. Voyetra Audiostation</li> <li>7. Artisoft ConfigSafe</li> <li>8. IBM Internet Connection services with Netscape Navigator web browser</li> <li>9. Intel® LANDesk® Client Manager</li> <li>10. Intel Video Phone (receive) (1AU only)</li> <li>11. ThinkPad PointCast</li> <li>12. NetMeeting™ 2.0</li> <li>13. Ergonomics; 14. ThinkPad on the NET</li> <li>15. NetFinity for Windows 95</li> <li>- Recovery CD-ROM with boot diskette</li> <li>- Windows 95 CD-ROM (no installation)</li> <li>- Internet Explorer 4.0 CD-ROM</li> </ul>				
		<b>WINDOWS NT 4.0 PRELOAD</b>				
		<ul style="list-style-type: none"> <li>- Windows NT® Workstation (FAT16)</li> <li>- Advanced NT extensions: <ul style="list-style-type: none"> <li>- Power management</li> <li>- UltraBay Plug and Play</li> <li>- DVD (storage only; no DVD movies)</li> <li>- Hot Plug PC Card; MPEG-2 playback</li> <li>- 3D graphics (OpenGL)</li> <li>- Video capture</li> </ul> </li> <li>- Online User's Guide</li> <li>- ThinkPad Configuration Program</li> <li>1. IBM AntiVirus</li> <li>2. IBM Internet Connection services with Netscape Navigator web browser</li> <li>3. Intel LANDesk Client Manager</li> </ul>				
		<p>The right bay (UltraBay™ II) has LED on release latch to provide status; it supports hot swapping; it supports:</p> <ul style="list-style-type: none"> <li>① std diskette; ② optional DVD drive;</li> <li>③ optional CD-ROM; ④ optional 2nd disk;</li> <li>⑤ optional 2nd battery; ⑥ optional ThinkPad Proven™ VST Zip™ 100 drive;</li> </ul> <p>Easy-Setup is entered by holding F1 when turning on.</p> <p>Screens are 150 nits (90 nits on battery)</p>				
		<p>ThinkPad 770 supported disks:</p> <ul style="list-style-type: none"> <li>- <b>3.2GB</b> 13ms read/14ms write 17 mm PIO Mode 4 or DMA Mode 2</li> <li>- <b>4.0GB</b> 13ms read/14ms write 12.5 mm PIO Mode 4 or Ultra DMA/33</li> <li>- <b>5.1 and 8.1GB</b> 12ms read/13ms write 17 mm PIO Mode 4 or Ultra DMA/33</li> <li>- All 760 supported disks (requires opt adaptr)</li> </ul>				
		<b>FEATURES OF 770 MODELS</b>				
		<b>Wired for Management 1.1a</b>				
		<b>PC 97 compliant</b>				
		<b>DMI 1.1 compliant</b>				
		DMI instrumentation (thermal monitoring)				
		<b>Wake-on-LAN via SelectaDock III</b>				
		C: is 1.99 GB, D: is up to 1.99 GB, etc.				
		Quick Setup Guide (single page)				
		<b>LCD indicator panel</b>				
		Plug and Play 1.0a				
		Discharge battery via mouse click				
		Non-disruptive battery exchange				
		Standby, suspend, safe suspend, and hibernation modes				
		ENERGY STAR compliant				
		International Warranty Service <sup>14</sup>				
		<b>IBM SystemXtra™</b>				
		24 hour / 7 day telephone, bulletin board, fax, electronic, and Internet				
		(www.ibm.com/pc/us) support				
		IBM and dealer warranty/service				

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround).

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# IBM ThinkPad® 770E and 770ED - withdrawn

IBM® ThinkPad®:	770E	770E	770ED	770E (AAP)	WINDOWS 95 PRELOAD <sup>16</sup>
Processor type/path	<b>Pentium® II 266/66MHz<sup>1</sup></b> (Deschutes) / 64-bit to L2 and memory				<ul style="list-style-type: none"> <li>- Microsoft® Windows® 95 OSR2.1 (FAT16)</li> <li>• Online User's Guide</li> <li>• ThinkPad Customization Center</li> <li>• ThinkPad Configuration Program</li> <li>• SystemSoft CardWorks</li> <li>• Diskette Factory Utilities</li> <li>• Puma IntelliSync 97; 2. IBM AntiVirus</li> <li>• Asymetrix Digital Video Producer (5AU)</li> <li>• RingZero Ring Central (5AU only)</li> <li>• Intelliquet Registration Mailer</li> <li>• Voyetra Audiostation</li> <li>• ConfigSafe</li> <li>• IBM Internet Connection services with Netscape Navigator web browser</li> <li>• Intel® LANDesk® Client Manager</li> <li>• Intel Video Phone (receive) (5AU only)</li> <li>• ThinkPad PointCast</li> <li>• Ergonomics</li> <li>• ThinkPad on the NET</li> <li>• NetFinity for Windows 95</li> <li>◇ Recovery CD-ROM with boot diskette</li> <li>◇ Customization CD-ROM (apps/drivers)</li> </ul>
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Intel MMO				
L2 cache	<b>512KB</b> / write-back / 4 way set associative/ sync pipelined burst / ECC / 133MHz				
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay II or attach externally				
External FDD port	External diskette port (use std cable to attach diskette drive externally)				
CD-ROM (removable)	Option: <b>5.25" CD-ROM / 24X-10X<sup>5</sup> speed</b> / CAV / bootable / hot swap				
DVD-ROM (removable)	EIDE (ATAPI) / PIO Mode 4 for W95; DMA Mode 2 for NT / use in UltraBay II Std or option: <b>DVD drive</b> / 8 x to 16 x spd / CAV / use in UltraBay II / (DVD5/4.7GB) requires <b>DVD and Enhanced Video Adapter</b> for movie playback / sw enb AC-3 port				
Type - model	<b>9548-51U</b>	<b>9548-52U</b>	<b>9549-5AU</b>	<b>9548-53U (AAP)</b>	
Display (diagonal)	<b>14.1" TFT XGA</b>	<b>14.1" TFT XGA</b>	<b>14.1" TFT XGA</b>	<b>14.1" TFT XGA</b>	
Disk (removable)	<b>5.1GB<sup>4</sup> / PIO4</b>	<b>5.1GB / DMA33</b>	<b>8.1GB / PIO4</b>	None	
DVD-ROM drive	Optional	Optional	<b>Standard DVD</b>	Optional	
Preload (see side)	<b>W95 OSR2.1</b>	<b>NT 4.0</b>	<b>W95 OSR2.1</b>	Blank (no disk)	
DVD and Enh Vid Ad	Optional	Optional	<b>Standard</b>	Optional	
Modem	Opt PC Card	Opt PC Card	<b>56Kbps</b>	Opt PC Card	
Avail / withdr date	April 1998 / December 1998				
Memory - std / max	<b>32MB / 288MB<sup>3</sup></b>	<b>32MB / 288MB<sup>3</sup></b>	<b>64MB / 288MB<sup>3</sup></b>	<b>32MB / 288MB<sup>3</sup></b>	
Memory - upgrade	<b>SDRAM</b> / 83 or 100MHz / non-parity / 3.3v / 2 sockets available for two JEDEC 144 pin SDRAM SO-DIMMs / sockets accessed by removing screw on bottom				
Display - size (colors)	<b>XGA color</b> / 640x480, 800x600, or <b>1024x768 (16 million simultaneous colors)</b>				
Display - technology	<b>Active Matrix TFT</b> - 100 to 1 contrast / 150 nits (AC) / 90 nits (batt) / 180 degree tilt				
Graphics - controller	<b>Trident™ CYBER9397E</b> / 64-bit accelerator / <b>4MB SGRAM</b> / 83MHz				
Graphics - arch	PCI 2.1 / Direct3D, DirectDraw, DirectVideo, DirectX 5.0 support / ZV interface				
Graphics - features	<b>3D hardware accelerator</b> / interpolation in X and Y axis / color space conversion				
Graphics - external	External SVGA to 1280x1024 w/ 64K colors (85Hz) or 1024x768 w/ 16M colors				
Disk (swappable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART				
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / 430TX South Bridge / PIIX4 / supports two internal disks (16.2GB max) / DMA Mode 2, Ultra DMA/33, or PIO Mode 4				
Keyboard / Fn keys	Full size alp/num / 7 Fn key functions / integrated palm rest				
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)				
Pointing device	<b>TrackPoint®</b> / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps				
Dimensions	12.3 x 10 x 2.2" (270 cubic in) / 5AU: 7.8 pounds (3.5 kg) with battery/diskette				
Weight <sup>2</sup>	Others: 7.6 pounds (3.45 kg) with battery/diskette				
Battery - type	Lithium Ion / intelligent / left side				
Battery - life <sup>10</sup> (1 batt)	3.5 hrs (7 hrs with second battery in UltraBay II)				
Charge time - on / off <sup>2</sup>	2 to 3 hrs / 1.5 to 2.5 hrs				
Architecture	<b>Intel 440BX PCIsset</b> / TI® PCI1250A for CardBus / LM75 digital thermometer PCI 2.1 / 32-bit / 33MHz (EIDE, graphics, CardBus, MPEG, USB, ext expansion) PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)				
Port replicator	<b>SelectaBase 770</b> / PC Card Enabler <sup>18</sup> / PC Card Enabler with Adv EtherJet <sup>18</sup>				
Docking Station	<b>SelectaDock III / SelectaDock I and II</b>				
PC Card Std slots	2 Type I, 2 Type II, or 1 Type III / <b>CardBus</b> / PCMCIA 2.1 / Zoomed Video				
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)				
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot				
Video in/out	5AU or option: Video in/out (composite and S-Video) / SAA7111A NTSC/PAL				
MPEG decoder	5AU or option: MPEG-2 / IBM MPEGCD1M / 2MB SDRAM; 100MHz				
Data/fax modem	5AU: 56Kbps (x2, upgradeable to v.90 <sup>9</sup> ) / 14.4Kbps fax / telephony / integrated Mwave® 3780i DSP / international programmable DAA				
Audio support	16-bit / CS4237B / <b>SRS 3D audio</b> / FM synthesis / software decodes AC3 into stereo Int stereo speakers (front) / <b>1 watt</b> / rotary volume control (right) / int microphone				
Jacks	Input jack (3.5 mm) / output jack (3.5 mm) / full duplex				
Infrared ports	Infrared ports (front and back) / IrDA 1.1 compatible / <b>up to 4Mbps</b>				
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays				
Limited warranty <sup>11</sup>	<b>3 year</b> - ThinkPad EasyServ <sup>31</sup> (door-to-door depot repair service) or carry-in Rapid Depot Repair (12 hr service from arrival time for 3 bus day average turnaround)				
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (71 cities) / serv up to 5 yrs from purchase date				
<b>DVD and Enhanced Video Adapter (DEVA)</b> provides (standard in 5AU; optional all others):	<ul style="list-style-type: none"> <li>- 5.1GB disk, 12ms, Ultra DMA/33 11J8947</li> <li>- 8.1GB disk, 12ms, Ultra DMA/33 02K0517</li> <li>- 2nd Disk Adapter (for 760/770 disks) 11J8836</li> <li>- <b>SelectaBase 770</b> <b>83H6735</b></li> <li>- <b>SelectaDock III</b><sup>18</sup> <b>3547003</b></li> <li>- <b>PC Card Enabler with EtherJet</b><sup>18</sup> <b>05K4820</b></li> <li>- <b>760 UltraBay Tray for SD III</b> <b>11J8839</b></li> <li>- 56 watt AC Adapter (barrel; 3 prong) 83H6739</li> <li>- <b>20X-8X CD-ROM Drive</b> (UltraBay II) 11J8933</li> <li>- <b>24X-10X CD-ROM Drive</b> (UltraBay II) 02K0516</li> <li>- <b>DVD Drive</b> (UltraBay II) 05K8886</li> <li>- DVD and Enh Video Adapter 11J8957</li> <li>- <b>16MB SO DIMM 3.3v NP SDRAM</b> <b>76H0293</b></li> <li>- <b>32MB SO DIMM 3.3v NP SDRAM</b> <b>76H0294</b></li> <li>- <b>64MB SO DIMM 3.3v NP SDRAM</b> <b>76H0295</b></li> <li>- 900MHz Cordless Comp Connection 04K0064</li> <li>- V.90 PC Card Modem with XJACK<sup>24</sup> 10L7393</li> <li>- ThinkPad 770 Li-Ion Battery 83H6738</li> <li>- External Battery Charger 11J8985</li> </ul>				
	<p><b>PC 97 compliant</b> <b>DMI 2.0 compliant</b> DMI instrumentation (thermal monitoring) <b>ACPI ready (APM enabled)</b> <b>Wired for Management 1.1a compliant</b> <b>Wake on LAN™ support</b><sup>28</sup> C: is 1.99G, D: up to 1.99G (FAT32), etc. Setup Guide, User's Guide, Up and Running, Windows 95 manual</p> <p><b>LCD indicator panel</b> Plug and Play 1.0a Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes ENERGY STAR compliant International Warranty Service<sup>14</sup> <b>IBM SystemXtra™</b> 24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</p>				

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# IBM ThinkPad® 770X - withdrawn

IBM® ThinkPad®:	770X	770X	770X	770X	770X (AAP)	WINDOWS 98 PRELOAD <sup>16</sup>
Processor	Intel® Mobile Pentium® II 300MHz <sup>1</sup> / 66MHz system bus					<ul style="list-style-type: none"> <li>Microsoft® Windows® 98</li> <li>Online User's Guide</li> <li>ThinkPad Configuration Program</li> <li>ThinkPad Utilities</li> <li>IBM Registration</li> <li>Puma IntelliSync 97</li> <li>Norton AntiVirus</li> <li>Mediamatics DVD Express</li> <li>Artisoft ConfigSafe</li> <li>IBM Global Network Dialer</li> <li>Netscape Navigator web browser</li> <li>ThinkPad on the Net</li> <li>Ring Central</li> <li>Intel Video Phone</li> <li>Ergonomics</li> <li>Update Connector</li> <li>Recovery CD-ROM (with boot diskette)</li> <li>Customization CD-ROM (apps/drivers)</li> </ul>
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Mobile Module					
L2 cache	512KB / write-back / 4 way set associative/ sync pipelined burst / ECC / 150MHz					
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay™ II or attach externally					
External FDD port	External diskette port (use std cable to attach diskette drive externally)					
CD-ROM (removable)	Std or option: <b>CD-ROM / 24X-10X<sup>5</sup> speed / bootable / hot swap / use in UltraBay II</b>					
DVD-ROM (removable)	Std or option: <b>2X<sup>5</sup> DVD drive / 16X-8X<sup>5</sup> speed / CAV / use in UltraBay II</b>					
Type - model	<b>9549-71U</b>	<b>9549-72U</b>	<b>9549-7AU</b>	<b>9549-7BU</b>	<b>9549-73U(AAP)</b>	
Preload (see side)	<b>Windows 98</b>	<b>NT 4.0</b>	<b>Windows 98</b>	<b>NT 4.0</b>	<b>Blank (no disk)</b>	
DVD or CD-ROM	<b>DVD-ROM</b>	<b>CD-ROM</b>	<b>DVD-ROM</b>	<b>CD-ROM</b>	<b>Optional</b>	
Display (diagonal)	<b>14.1" TFT XGA (1024x768)</b>		<b>13.7" TFT SXGA (1280x1024)</b>		<b>14.1" TFT XGA</b>	
Disk (removable)	<b>8.1GB<sup>4</sup> / 12ms read / 13ms write</b>					
Avail / withdr date	October 1998 / June 1999					
Memory - std / max	<b>64MB / 320MB<sup>21</sup></b>		<b>128MB / 320MB<sup>21</sup></b>		<b>64MB / 320MB<sup>21</sup></b>	
Available sockets	2 available sockets		1 socket (one used by 64MB)		2 available	
Memory - features	<b>SDRAM / 66MHz / non-parity / 3.3v / sockets accessed by removing screw on bottom</b> 64MB on motherboard and 2 sockets for two JEDEC 144-pin SDRAM SO-DIMMs					
Display - size	<b>14.1" (358mm) color / 1024x768</b>		<b>13.7" (348mm) SXGA color / 1280x1024</b>			
Display - colors	<b>16.7 million simultaneous colors</b>		<b>65,536 simultaneous colors</b>			
Display - technology	<b>Active Matrix TFT / 180 degree tilt</b>					
Graphics - controller	<b>Trident™ CYBER9397DVD / Accelerated Graphics Port / 64-bit accelerator</b>					
Graphics - arch	<b>4MB SGRAM / 83MHz</b>		<b>8MB SGRAM / 83MHz</b>		<b>4MB SGRAM</b>	
Graphics - features	<b>3D hardware accelerator / AGP-1x / sideband / motion compensation / Direct3D</b>					
Graphics - external	External SVGA to 1280x1024 w/ 64K colors (85Hz) / multiple-monitor support <sup>26</sup>					
Disk (swappable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART					
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / PIIX4E / supports two internal disks / DMA Mode 2, Ultra DMA/33, or PIO Mode 4					
Keyboard / Fn keys	Full size alp/num keys / 7 Fn key functions / integrated palm rest					
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)					
Pointing device	<b>TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace / center click button for scrolling or magnifying glass / suspension top / spare caps</b>					
Dimensions / weight <sup>2</sup>	12.3 x 10 x 2.2" (270 cubic in) / 14.1" mod: 7.57 lbs (3.43 kg) with battery/diskette 13.7" mod: 7.63 lbs (3.46 kg) with battery/diskette					
Battery - type	Lithium Ion / intelligent / left side					
Battery - life <sup>10</sup> (1 batt)	3.5 hrs (7 hrs with second battery in UltraBay II)					
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs					
Architecture	<b>Intel 440BX AGPset / Intel 82371EB PIIX4E (EIDE, ISA Bridge, USB) / TI® PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer</b> PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion) PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp) <b>SelectaBase 770 / PC Card Enabler<sup>18</sup> / PC Card Enabler with Adv EtherJet<sup>18</sup></b>					
Port replicator	<b>SelectaDock III / SelectaDock I and II</b>					
Docking Station	<b>SelectaDock III / SelectaDock I and II</b>					
PC Card Std slots	2 Type 1, 2 Type II, or 1 Type III / <b>CardBus / PCMCIA 2.1 / Zoomed Video</b>					
USB / serial / parallel	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)					
Other features	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot					
Video in/out	<i>Option on DEVA:</i> Video in/out (composite and S-Video) / SAA7111A NTSC/PAL					
MPEG	Software support for MPEG-2 <sup>27</sup> because 300MHz with motion compensation					
Data/fax modem	<b>56Kbps</b> (x2, upgradeable to v.90 <sup>3</sup> ) / voice-capable / integrated Mwave® 3780i DSP / international programmable DAA					
Audio support	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX Int stereo speakers (front) / 1 watt / rotary volume control (right) / int microphone Input jack (3.5 mm) / output jack (3.5 mm) / full duplex					
Jacks	Infrared ports (front and back) / IrDA 1.1 compatible / up to 4Mbps					
Security	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays					
Limited warranty <sup>11</sup>	<b>3 year</b> - carry-in or ThinkPad EasyServ™ <sup>31</sup> Rapid Depot Repair (3 business day average turnaround					
Service options <sup>15</sup>	On-site <sup>32</sup> , M-F, 8-5, next bus day (72 cities) / serv up to 5 yrs from purchase date					
Optional DVD and Enhanced Video Adapter (DEVA) 10L1228 provides:	<ul style="list-style-type: none"> <li>- 5.1GB disk, 12ms, Ultra DMA/33 11J8947</li> <li>- 8.1GB disk, 12ms, Ultra DMA/33 02K0517</li> <li>- 14.1GB disk, 12ms, Ultra DMA/33 02K0526</li> <li>- 2nd Disk Adapter (for 760/770 disks) 11J8836</li> <li>- <b>SelectaBase 770</b> 83H6735</li> <li>- <b>SelectaDock III<sup>18</sup></b> 3547003</li> <li>- <b>PC Card Enabler with EtherJet™<sup>18</sup></b> 05K4820</li> <li>- <b>760 UltraBay Tray for SD III</b> 11J8839</li> <li>- 56 watt AC Adapter (barrel; 3 prong) 83H6739</li> <li>- <b>24X-10X CD-ROM Drive (UltraBay II)</b> 02K0516</li> <li>- <b>2X DVD Drive (UltraBay II)</b> 05K8886</li> <li>- DVD and Enh Video Adapter (DEVA) 10L1228</li> <li>- <b>32MB SO DIMM 3.3v NP SDRAM</b> 76H0294</li> <li>- <b>64MB SO DIMM 3.3v NP SDRAM</b> 20L0241</li> <li>- <b>128MB SO DIMM 3.3v NP SDRAM</b> 01K1150</li> <li>- V.90 PC Card Modem with XJACK<sup>24</sup> 10L7393</li> <li>- ThinkPad 770 Li-Ion Battery 83H6738</li> <li>- External Battery Charger 11J8985</li> </ul>					
	<p>The right bay (UltraBay™ II) has LED on release latch to provide status; supports hot swapping:</p> <ul style="list-style-type: none"> <li>• std diskette</li> <li>• std or optional DVD drive</li> <li>• std or optional CD-ROM</li> <li>• optional 2nd disk</li> <li>• optional 2nd battery (requires adapter; cold swap only)</li> <li>• optional ThinkPad Proven™ VST Zip™ 100 drive or SuperDisk (LS-120) drive (cold swap only)</li> </ul> <p>ThinkPad 770 supported disks:</p> <ul style="list-style-type: none"> <li>- <b>3.2GB</b> 13ms read/14ms write 17 mm</li> <li>- <b>4.0GB</b> 13ms read/14ms write 12.5 mm</li> <li>- <b>5.1GB</b> 12ms read/13ms write 17 mm</li> <li>- <b>8.1GB</b> 12ms read/13ms write 17 mm</li> <li>- All 760 supported disks (requires opt adaptr)</li> </ul>					
	<p><b>PC 97 compliant</b> <b>DMI 2.0 compliant</b> DMI instrumentation (thermal monitoring) <b>ACPI ready</b> (APM enabled) <b>Wired for Management 1.1a compliant</b> <b>Wake on LAN® support<sup>28</sup></b> Setup Guide, User's Guide, Windows 98 or NT manual</p> <p><b>LCD indicator panel</b> Plug and Play 1.0a Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes ENERGY STAR compliant International Warranty Service<sup>14</sup> <b>IBM SystemXtra®<sup>35</sup></b> 24 hour / 7 day telephone<sup>30</sup>, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support</p>					

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# IBM ThinkPad® 770Z - withdrawn

IBM® ThinkPad®:	770Z	770Z	770Z	770Z	770Z (AAP)	WINDOWS 98 PRELOAD <sup>16</sup>
Processor	Intel® Mobile Pentium® II 366MHz <sup>1</sup> / 66MHz system bus					<ul style="list-style-type: none"> <li>Microsoft® Windows® 98</li> <li>Online User's Guide</li> <li>ThinkPad Configuration Program</li> <li>ThinkPad Utilities</li> <li>IBM Registration</li> <li>Puma IntelliSync 97</li> <li>Norton AntiVirus (OEM Version)</li> <li>Mediamatics DVD Express (DVD mod)</li> <li>ConfigSafe</li> <li>IBM Global Network Dialer</li> <li>IBM Netscape Communicator</li> <li>Universal Management Agent</li> <li>Access ThinkPad</li> <li>ThinkPad on the Net</li> <li>RingCentral</li> <li>Intel Video Phone</li> <li>IBM Update Connector</li> <li>Software Selections CD-ROM</li> <li>Recovery CD-ROM (Windows 98)</li> <li>Recovery CD-ROM (Windows 95)<sup>7</sup></li> </ul>
Processor features	No upgrade / processor, L2 cache, and MTXC (North Bridge) on Mobile Module					
L2 cache	256KB / onboard (full speed) / sync pipelined burst / write-back / ECC					
Diskette (removable)	3.5" 1.44MB / in encased enclosure / use in UltraBay™ II or attach externally					
External FDD port	External diskette port (use std cable to attach diskette drive externally)					
CD-ROM (removable)	Std or option: CD-ROM / 24X-10X <sup>5</sup> speed / bootable / hot swap/ use in UltraBay II					
DVD-ROM (removable)	Std or option: 2X <sup>5</sup> DVD drive / use in UltraBay II / CD-ROM speed of 16X-8X <sup>5</sup>					
Type - model	9549-81U	9549-82U	9549-8AU	9549-8BU	9549-83U (AAP)	
Preload (see side)	Windows 98	NT 4.0	Windows 98	NT 4.0	Blank (no disk)	
DVD or CD-ROM	DVD-ROM	CD-ROM	DVD-ROM	CD-ROM	Optional	
Display (diagonal)	14.1" TFT XGA (1024x768)		13.7" TFT SXGA (1280x1024)		14.1" TFT XGA	
Disk (removable)	14.1GB <sup>4</sup> / 12ms / 4902rpm / PIO4 or Ultra DMA/33 / 17mm high					
Avail / withdrawn	February 1999 / December 1999					
Memory - std / max	128MB / 320MB <sup>21</sup>					
Available sockets	1 available socket (one used by 64MB SO-DIMM)					
Memory - features	SDRAM / 66MHz / non-parity / 3.3v / sockets accessed by removing screw on bottom 64MB on motherboard and 2 sockets for two JEDEC 144-pin SDRAM SO-DIMMs					
Display - size	14.1" (358mm) color / 1024x768		13.7" (348mm) SXGA color / 1280x1024			
Display - colors	16.7 million simultaneous colors		65,536 simultaneous colors at 1280x1024			
Display - technology	Active Matrix TFT / 180 degree tilt					
Graphics - controller	Trident™ CYBER9397DVD / Accelerated Graphics Port / 64-bit accelerator					
Graphics - arch	4MB SGRAM / 83MHz		8MB SGRAM / 83MHz		4MB SGRAM	
Graphics - features	3D hardware accelerator / AGP-1x / sideband / motion compensation					
Graphics - external	External SVGA to 1280x1024 w/ 64K colors (85Hz) / multiple-monitor support <sup>26</sup>					
Disk (swappable)	Left side / removable via 3 methods: latch, coin screw, security tool / SMART <sup>29</sup>					
Disk controller	Enhanced IDE / busmaster / PCI 2.1 / PIIX4E / supports two internal disks / DMA Mode 2, Ultra DMA/33, or PIO Mode 4					
Keyboard / Fn keys	Full size alp/num keys / 7 Fn key functions / integrated palm rest					
Keyboard slope	Flat keyboard (does not lift up) / rear legs pop up (5.5 degrees slope)					
Pointing device	TrackPoint® / Press-to-Select / Release-to-Select / dragging / click pace/ center click button for scrolling or magnifying glass / suspension top / spare caps					
Dimensions / weight <sup>2</sup>	12.3 x 10 x 2.2" (270 cubic in) / 14.1" mod: 7.79 lbs (3.53 kg) with battery/DVD 13.7" mod: 7.85 lbs (3.56 kg) with battery/DVD					
Battery - life <sup>10</sup> (1 batt)	4.0 hrs (8 hrs with second battery in UltraBay II) / lithium ion / intelligent / left side					
Charge time - on / off	2 to 3 hrs / 1.5 to 2.5 hrs					
Architecture	Intel 440BX AGPset / Intel 82371EB PIIX4E (EIDE, ISA Bridge, USB) / TI <sup>®</sup> PCI1251 for CardBus / AGP for graphics / LM75 digital thermometer					
Port replicator	PCI 2.1 / 32-bit / 33MHz (EIDE, CardBus, audio, USB, ext expansion)					
Docking Station	PC97338 Super I/O / ISA (audio, modem, diskette, serial, parallel, infrared, ext exp)					
PC Card Std slots	SelectaBase 770 / PC Card Enabler <sup>18</sup> / PC Card Enabler with Adv EtherJet <sup>18</sup>					
USB / serial / parallel	SelectaDock III <sup>18</sup> / SelectaDock I and II					
Other features	2 Type 1, 2 Type II, or 1 Type III / CardBus / PCMCIA 2.1 / Zoomed Video					
Video in/out	One USB / one 9 pin serial; 16550A / one (IEEE P1284-A, EPP, ECP, bidirectional)					
MPEG-2 playback <sup>27</sup>	APM-aware BIOS / AC Adapter barrel, 3 prong (56 watts) / Selectable boot					
DVD movie playback <sup>34</sup>	Option on DEVA: Video in/out (composite and S-Video) / SAA7111A NTSC/PAL					
Data/fax modem	W98 models: Full MPEG-2 playback NT models: Optional via DEVA					
Audio support	W98 models: Yes NT models: No (limitation of NT)					
Jacks	56K <sup>22</sup> / V.90 / integrated Mwave® 3780i DSP / voice-capable / international programmable DAA					
Infrared ports	CS4239: ISA / SRS 3D audio / FM synthesis / 16-bit playback and record					
Security	CS4610: PCI / decodes AC3 into stereo / MPEG-2 audio decoding / accel of DirectX					
Limited warranty <sup>11</sup>	Int stereo speakers (front) / 1 watt / rotary volume control (right) / int microphone					
Service options <sup>15</sup>	Input jack (3.5 mm) / output jack (3.5 mm) / full duplex					
Optional DVD and Enhanced Video Adapter (DEVA) 10L1228 provides:	Infrared ports (front and back) / IrDA 1.1 compatible / up to 4Mbps					
- MPEG-1, MPEG-2 HHR, and full MPEG-2 <sup>27</sup> hardware decoder (audio decoded via software); IBM MPEGCD1M / 2MB SDRAM; 100MHz	Power-on password / hard disk password / supervisor password / security keyhole / personalization / phillips-head screws on base for battery and UltraBay II bays					
- DVD movie playback <sup>27</sup> (MPEG-2 decoding; decryption and audio decoding via software)	- 5.1GB disk, 12ms, Ultra DMA/33 11J8947					
- Video in (composite and SVHS) (NTSC or PAL) for video capture (capture and digitize video from a TV or VCR), still image capture (capture and digitize still photo images), and overlay	- 8.1GB disk, 12ms, Ultra DMA/33 02K0517					
- Video out (composite and SVHS) to TV (connect to video out port; NTSC or PAL); or record on VCR the screen of ThinkPad	- 14.1GB disk, 12ms, Ultra DMA/33 02K0526					
- Dolby® Digital AC-3 <sup>8</sup> (outputs undecoded Dolby Digital signal from AC-3 connector; CSA8404A); requires external AC3 decoder/amplifier	- 2nd Disk Adapter (for 760/770 disks) 11J8836					
- Three ports - ① video in, ② video out, ③ AC-3	- SelectaBase 770 83H6735					
	- SelectaDock III <sup>18</sup> 3547003					
	- PC Card Enabler <sup>18</sup> 83H6741					
	- PC Card Enabler with EtherJet <sup>18</sup> 05K4820					
	- 760 UltraBay Tray for SD III 11J8839					
	- Ultralim 56 watt AC Adpter (3 prong) 02K6545					
	- 24X-10X <sup>5</sup> CD-ROM Drive (UltraBy II) 02K0516					
	- 2X <sup>5</sup> DVD Drive (UltraBay II) 05K8886					
	- DVD and Enh Video Adapter (DEVA) 10L1228					
	- 32MB SO DIMM 3.3v NP SDRAM 76H0294					
	- 64MB SO DIMM 3.3v NP SDRAM 20L0241					
	- 128MB SO DIMM 3.3v NP SDRAM 01K1150					
	- V.90 PC Card Modem with XJACK <sup>24</sup> 10L7393					
	- ThinkPad 770 Li-Ion Battery 83H6738					
	<b>WINDOWS NT 4.0 PRELOAD<sup>16</sup></b> <ul style="list-style-type: none"> <li>Windows NT® Workstation 4.0</li> <li>Service Pack 4a</li> <li>Online User's Guide</li> <li>ThinkPad Utilities</li> <li>ThinkPad Configuration Program</li> <li>Norton AntiVirus (OEM Version)</li> <li>IBM Global Network Dialer</li> <li>Netscape Communicator</li> <li>Universal Management Agent</li> <li>Access ThinkPad</li> <li>IBM Update Connector</li> <li>IBM Registration</li> <li>SystemSoft CardWizard</li> <li>ConfigSafe</li> <li>Puma IntelliSync 97</li> <li>Software Selections CD-ROM</li> <li>Recovery CD-ROM (Windows NT)</li> </ul>					
	<b>WINDOWS 98 PRELOAD<sup>16</sup></b> <ul style="list-style-type: none"> <li>Microsoft® Windows® 98</li> <li>Online User's Guide</li> <li>ThinkPad Configuration Program</li> <li>ThinkPad Utilities</li> <li>IBM Registration</li> <li>Puma IntelliSync 97</li> <li>Norton AntiVirus (OEM Version)</li> <li>Mediamatics DVD Express (DVD mod)</li> <li>ConfigSafe</li> <li>IBM Global Network Dialer</li> <li>IBM Netscape Communicator</li> <li>Universal Management Agent</li> <li>Access ThinkPad</li> <li>ThinkPad on the Net</li> <li>RingCentral</li> <li>Intel Video Phone</li> <li>IBM Update Connector</li> <li>Software Selections CD-ROM</li> <li>Recovery CD-ROM (Windows 98)</li> <li>Recovery CD-ROM (Windows 95)<sup>7</sup></li> </ul>					
	<b>WINDOWS NT 4.0 PRELOAD<sup>16</sup></b> <ul style="list-style-type: none"> <li>Windows NT® Workstation 4.0</li> <li>Service Pack 4a</li> <li>Online User's Guide</li> <li>ThinkPad Utilities</li> <li>ThinkPad Configuration Program</li> <li>Norton AntiVirus (OEM Version)</li> <li>IBM Global Network Dialer</li> <li>Netscape Communicator</li> <li>Universal Management Agent</li> <li>Access ThinkPad</li> <li>IBM Update Connector</li> <li>IBM Registration</li> <li>SystemSoft CardWizard</li> <li>ConfigSafe</li> <li>Puma IntelliSync 97</li> <li>Software Selections CD-ROM</li> <li>Recovery CD-ROM (Windows NT)</li> </ul>					
	<b>PC 97 compliant</b> <b>DMI 2.0 compliant</b> DMI instrumentation (thermal monitoring) <b>ACPI ready</b> (APM enabled) <b>Wired for Management 1.1a compliant</b> <b>Wake on LAN® support<sup>28</sup></b> Setup Guide, User's Guide, Windows 98 or NT manual <b>LCD indicator panel</b> Plug and Play 1.0a Non-disruptive battery exchange Standby, suspend, safe suspend, and hibernation modes ENERGY STAR compliant Asset ID wireless RF technology (available only as an AAP option on the 770Z model 83U; Atmel® AT24RF08 EEPROM) International Warranty Service <sup>14</sup> <b>IBM SystemXtra®<sup>35</sup></b> 24 hour / 7 day <sup>30</sup> telephone, bulletin board, fax, electronic, and Internet (www.ibm.com/pc/us) support					
	All models: - C: drive is FAT16 of 2GB - D: drive is FAT32 (if W98) or FAT16 (if NT) of remaining space					
	The right bay (UltraBay™ II) has LED on release latch to provide status; supports hot swapping: • std diskette • std or optional DVD drive • std or optional CD-ROM • optional 2nd disk • optional 2nd battery (requires adapter; cold swap only) • optional ThinkPad Proven™ VST Zip™ 100 drive or SuperDisk (LS-120) drive (cold swap only)					

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# IBM ThinkPad Power Series 820 - withdrawn

<b>IBM® ThinkPad®:</b>	⊗ 820 PowerPC - TFT color - CD-ROM	<b>ThinkPad Power Series 820 strengths:</b>																																																																																																																								
Processor type	<b>Power PC 603e</b> / 100/33 MHz / 32 KB L1 cache	<ul style="list-style-type: none"> <li>⊗ <b>PowerPC performance</b></li> <li>⊗ <b>AIX or NT preloaded (or no operating sys)</b></li> <li>⊗ <b>Removable, double speed, 5.25" CD-ROM</b></li> <li>⊗ <b>Standard or optional Video Card (acceleration, composite video in/out)</b></li> </ul>																																																																																																																								
L2 cache	256 KB / write through / 2 way associative / 32 bit transfers																																																																																																																									
Processor / L2 upgrade	None																																																																																																																									
Removable diskette	Internal or external 3.5" 1.44 MB ○ / external diskette drive connector Can use diskette and CD-ROM simultaneously as diskette drive ships with an external case with cable																																																																																																																									
Removable CD-ROM	<b>5.25" CD-ROM</b> ○ / double speed / multi-session / XA / SCSI-2 / bootable The middle bay supports either the standard diskette drive or standard CD-ROM	Operating System preloads:																																																																																																																								
Type - model	6040-xxx (listed below)	<ul style="list-style-type: none"> <li>① IBM AIX Version 4 for Clients 4.1.3 <ul style="list-style-type: none"> <li>- Ultimedia Services Ver 2.1.2</li> <li>- Insignia SoftWindows Ver 1.1</li> <li>- Speech Dictation</li> <li>- Personal Conferencing for AIX (some mod)</li> <li>- Essentials! (catalogs and support)</li> <li>- Power, Performance, Potential multimedia presentation</li> <li>- CD-ROMs included: Program Pack, AIX backup, Pers Conferencing for AIX (some)</li> <li>- Black 3 button mouse</li> </ul> </li> <li>② Microsoft Windows NT 3.51 Workstation <ul style="list-style-type: none"> <li>- Essentials! (catalogs and support)</li> <li>- Power, Performance, Potential presenta</li> <li>- Comuserve WinCIM Power Series Ed</li> <li>- Introducing ThinkPad Power Series 820</li> <li>- CD-ROMs included: Program Pack, NT backup</li> </ul> </li> <li>③ No preloaded operating system <ul style="list-style-type: none"> <li>- CD-ROMs included: Program Pack, Pers Conferencing for AIX (some mod)</li> </ul> </li> <li>④ IBM OS/2 Warp Connect (when available)</li> <li>⑤ Solaris (when available)</li> </ul>																																																																																																																								
Available date	July 1995 or later (listed below)																																																																																																																									
Disk controller	SCSI-2 Fast (for disk, CD-ROM) / external SCSI-2 50 pin connector																																																																																																																									
Removable disk - size	Choice: <b>540 MB</b> 14 ms □ ○ / <b>810 MB</b> 14 ms □ ○ / <b>1.2 GB</b> 12 ms ○																																																																																																																									
Display - type	Choice: Color 640 x 480 or Color 800 x 600 (listed below)																																																																																																																									
Display - technology	<b>Black Matrix TFT - active matrix / up to 65,536 simultaneous colors</b>																																																																																																																									
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio for 640 x 480 / 110 to 1 for 800 x 600																																																																																																																									
Graphics - controller	WD90C24A Rev C with 1 MB DRAM (called G10 Graphics Adapter)																																																																																																																									
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)																																																																																																																									
Graph - arch/data path	PCI 2.0 / 32 bit / Simultaneous LCD and CRT / 180 degree tilt																																																																																																																									
Video function	Some: <b>Video acceleration / composite in/out</b> (called G10 Graphics with Motion Video Adapter) with Personal Conferencing for AIX CD-ROM																																																																																																																									
Memory - std / max	16 or 32 MB / 48 MB 70 ns / <b>parity</b> / 5 volt / 32 bit transfers	<b>ALL 820 MODELS</b> <b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, battery, and memory</b>																																																																																																																								
Mem - sockets	Standard: 1 or 2 SO DIMMs; available: 2 or 1 SO DIMM sockets (16 MB																																																																																																																									
Mem-options available	8, 16 MB JEDEC 72 pin SO DIMMs DIMM(s) std)																																																																																																																									
Keyboard / # of keys	Full size alp/num / 84 (no Fn key) Easy-Setup is entered by holding F1 when power on																																																																																																																									
Keyboard slope	<b>Palm rest space</b>																																																																																																																									
Mouse/pointing	<b>TrackPoint III™</b>																																																																																																																									
Ext keyboard support	Yes (with option cable)																																																																																																																									
Dimensions	11.7 x 8.3 x 2.2" (213 cubic inches)																																																																																																																									
Color	Black																																																																																																																									
Weight (with battery)	7.5 pounds (with CD-ROM)																																																																																																																									
Battery - type	Nickel hydride (NiMH) / intelligent	G10 Graphics with Motion Video Adapter (some models) provides: <ul style="list-style-type: none"> <li>- <b>Acceleration</b> of motion video with scaling (no interpolation) of image. Video may be scaled up to full screen without frame rate degradation</li> <li>- <b>Composite in</b> (from camcorder, TV, VCR) for video capture (capture and digitize video), still image capture (capture and digitize still photo images), and overlay (view video on LCD without capturing it to disk). Uses NTSC or PAL</li> <li>- <b>Composite out</b> (to camcorder, TV, VCR) in NTSC.</li> <li>- Includes a cable with in/out RCA jacks to connect to the "integrated video connector" on back of unit</li> </ul>																																																																																																																								
Battery - life	2 to 5 hours																																																																																																																									
Charge time - on / off	2.0 hrs / 1.5 hrs																																																																																																																									
Architecture	PCI 2.0 / 32 bit / 33 MHz / 5 volt (SCSI, motion video) ISA (audio, PCMCIA, diskette, serial, parallel, 120-pin external expansion) VL-Bus 2.0 / 32 bit (graphics via PCI-to-VL Bridge)																																																																																																																									
Docking Station	None																																																																																																																									
Port replicator	None																																																																																																																									
PCMCIA™ 2.1 slots	2 Type I or 2 Type II or 1 Type III																																																																																																																									
Serial / parallel ports	One 9 pin; 16550A / Enhanced Parallel Port (EPP and IEEE 1284)																																																																																																																									
Other features	Universal AC adapter, 50 watts, not wallmount / Drive Startup Sequence																																																																																																																									
Data/fax modem	None (use PCMCIA)																																																																																																																									
Audio support	<b>CD quality audio (44.1 kHz, 16 bit, stereo)</b> / Crystal Semiconductor™ CS4231 Internal stereo speakers (.5 watt each) / dial volume control Internal microphone / IBM Personal Microphone (earphone and headset)																																																																																																																									
Audio in/out jacks	Input jack / output jack	Options for ThinkPad Power Series 820: <ul style="list-style-type: none"> <li>- Disks: 540 MB SCSI-2 30H1388</li> <li style="padding-left: 15px;">810 MB SCSI-2 30H1392</li> <li style="padding-left: 15px;">1.2 GB SCSI-2 30H1467</li> <li>- AC Adapter 50 watts 30H1403</li> <li>- 820 Travel Quick Charger 30H1373</li> <li>- 820 NiMH Battery Pack 30H1369</li> <li>- IBM Personal Microphone 12H1504</li> <li>- 8 MB SO DIMM parity 92G7255</li> <li>- 16 MB SO DIMM parity 92G7257</li> </ul>																																																																																																																								
Infrared ports	None																																																																																																																									
Security	Power-on password / Supervisor password / Hardware security loop (locking lever) / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock																																																																																																																									
Preinstalled software	Choice: none or select a supported operating system (listed on side)																																																																																																																									
Warranty	<b>3 year</b> - ThinkPad EasyServ																																																																																																																									
Warranty options	ThinkPad EasyServ Overnight Repair Option																																																																																																																									
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Type-Model</th> <th>Part</th> <th>Mem</th> <th>Disk</th> <th>LCD</th> <th>Graphics</th> <th>Op Sys</th> <th>Price</th> <th>Avail</th> </tr> </thead> <tbody> <tr> <td>⊗ 6040-OCD30H1553</td> <td></td> <td><b>32 MB</b></td> <td>1.2 GB</td> <td>800x600</td> <td>G10</td> <td>None</td> <td>\$ 7,999</td> <td>Aug 95</td> </tr> <tr> <td>⊗ 6040-ODD30H1554</td> <td></td> <td><b>32 MB</b></td> <td>1.2 GB</td> <td>800x600</td> <td>G10</td> <td>AIX</td> <td>8,799</td> <td>Aug 95</td> </tr> <tr> <td>⊗ 6040-OED30H1555</td> <td></td> <td><b>32 MB</b></td> <td>1.2 GB</td> <td>800x600</td> <td>G10</td> <td>NT</td> <td>8,299</td> <td>Aug 95</td> </tr> <tr> <td>⊗ 6040-06D</td> <td>30H1477</td> <td>32 MB</td> <td>810 MB</td> <td>800x600</td> <td>G10</td> <td>None</td> <td>7,549</td> <td>Jul 95</td> </tr> <tr> <td>⊗ 6040-07D</td> <td>30H1478</td> <td>32 MB</td> <td>810 MB</td> <td>800x600</td> <td>G10</td> <td>AIX</td> <td>8,399</td> <td>Jul 95</td> </tr> <tr> <td>⊗ 6040-08D</td> <td>30H1480</td> <td>32 MB</td> <td>810 MB</td> <td>800x600</td> <td>G10</td> <td>NT</td> <td>7,849</td> <td>Jul 95</td> </tr> <tr> <td>⊗ 6040-966</td> <td>30H1482</td> <td>16 MB</td> <td>810 MB</td> <td>640x480</td> <td>G10 w/ Motion</td> <td>None</td> <td>6,449</td> <td>Jul 95</td> </tr> <tr> <td>⊗ 6040-986</td> <td>30H1484</td> <td>16 MB</td> <td>810 MB</td> <td>640x480</td> <td>G10 w/ Motion</td> <td>NT</td> <td>6,749</td> <td>Jul 95</td> </tr> <tr> <td>⊗ 6040-977</td> <td>30H1486</td> <td><b>32 MB</b></td> <td>810 MB</td> <td>640x480</td> <td>G10 w/ Motion</td> <td>AIX</td> <td>8,399</td> <td>Jul 95</td> </tr> <tr> <td>⊗ 6040-006</td> <td>30H1487</td> <td>16 MB</td> <td>540 MB</td> <td>640x480</td> <td>G10</td> <td>None</td> <td>5,699</td> <td>Jul 95</td> </tr> <tr> <td>⊗ 6040-026</td> <td>30H1489</td> <td>16 MB</td> <td>540 MB</td> <td>640x480</td> <td>G10</td> <td>NT</td> <td>5,999</td> <td>Jul 95</td> </tr> <tr> <td>⊗ 6040-017</td> <td>30H1491</td> <td><b>32 MB</b></td> <td>540 MB</td> <td>640x480</td> <td>G10</td> <td>AIX</td> <td>7,649</td> <td>Jul 95</td> </tr> </tbody> </table>				Type-Model	Part	Mem	Disk	LCD	Graphics	Op Sys	Price	Avail	⊗ 6040-OCD30H1553		<b>32 MB</b>	1.2 GB	800x600	G10	None	\$ 7,999	Aug 95	⊗ 6040-ODD30H1554		<b>32 MB</b>	1.2 GB	800x600	G10	AIX	8,799	Aug 95	⊗ 6040-OED30H1555		<b>32 MB</b>	1.2 GB	800x600	G10	NT	8,299	Aug 95	⊗ 6040-06D	30H1477	32 MB	810 MB	800x600	G10	None	7,549	Jul 95	⊗ 6040-07D	30H1478	32 MB	810 MB	800x600	G10	AIX	8,399	Jul 95	⊗ 6040-08D	30H1480	32 MB	810 MB	800x600	G10	NT	7,849	Jul 95	⊗ 6040-966	30H1482	16 MB	810 MB	640x480	G10 w/ Motion	None	6,449	Jul 95	⊗ 6040-986	30H1484	16 MB	810 MB	640x480	G10 w/ Motion	NT	6,749	Jul 95	⊗ 6040-977	30H1486	<b>32 MB</b>	810 MB	640x480	G10 w/ Motion	AIX	8,399	Jul 95	⊗ 6040-006	30H1487	16 MB	540 MB	640x480	G10	None	5,699	Jul 95	⊗ 6040-026	30H1489	16 MB	540 MB	640x480	G10	NT	5,999	Jul 95	⊗ 6040-017	30H1491	<b>32 MB</b>	540 MB	640x480	G10	AIX	7,649	Jul 95	<b>FEATURES OF 820 MODELS</b> Battery life and other indicators Non-disruptive battery exchange Suspend mode US EPA Energy Star compliant Personalized nameplate in molded indentation Compatible with PowerPC Reference Platform™ Specifications (PReP) v1.1 <b>3 year warranty</b> <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, and electronic support</b> <b>IBM warranty/service</b> <b>30 day money back guarantee</b>	
Type-Model	Part			Mem	Disk	LCD	Graphics	Op Sys	Price	Avail																																																																																																																
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**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99  
□ = Upgradeable; ○ = Removable; ⊗ = Withdrawn effective March 20, 1996

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No warranties are expressed or implied in this summary (820) Compiled by Roger Dodson, IBM. February 1996

# IBM ThinkPad Power Series 850 - withdrawn

<b>IBM® ThinkPad®:</b>	⊗ 850 PowerPC - TFT color - CD-ROM - Video Card	<b>ThinkPad Power Series 850 strengths:</b>
Processor type	<b>Power PC 603e</b> / 100/66 MHz / 32 KB L1 cache	<ul style="list-style-type: none"> <li>⊗ <b>PowerPC performance</b></li> <li>⊗ <b>Collaborative and conversational computing</b></li> <li>⊗ <b>Removable, double speed, 5.25" CD-ROM</b></li> <li>⊗ <b>Video card (acceleration, composite video)</b></li> <li>⊗ <b>Optional top mounted video camera</b></li> </ul>
L2 cache	256 KB / write back / direct mapped / 64 bit transfers	
Processor / L2 upgrade	None	<b>Operating System Preloads:</b> <ul style="list-style-type: none"> <li>① IBM AIX Version 4 for Clients 4.1.3 <ul style="list-style-type: none"> <li>- Ultimedia Services Ver 2.1.2</li> <li>- Insignia SoftWindows Ver 1.1</li> <li>- Speech Dictation</li> <li>- Personal Conferencing for AIX on CD</li> <li>- Essentials! (catalogs and support)</li> <li>- Power, Performance, Potential multimedia presentation</li> <li>- CD-ROMs included: Program Pack, AIX backup, Pers Conferencing for AIX</li> <li>- Black 3 button mouse</li> </ul> </li> <li>② Microsoft Windows NT 3.51 Workstation <ul style="list-style-type: none"> <li>- Essentials! (catalogs and support)</li> <li>- Power, Performance, Potential presenta</li> <li>- Compuserve WinCIM Power Series Ed</li> <li>- Introducing ThinkPad Power Series 850</li> <li>- CD-ROMs included: Program Pack, NT backup</li> </ul> </li> <li>③ No preloaded operating system <ul style="list-style-type: none"> <li>- CD-ROMs included: Program Pack, Personal Conferencing for AIX</li> </ul> </li> <li>④ IBM OS/2 Warp Connect (when available)</li> <li>⑤ Solaris (when available)</li> </ul>
Removable diskette	Internal or external 3.5" 1.44 MB ○ / external diskette drive connector Can use diskette and CD-ROM simultaneously as diskette drive ships with an external case with cable	
Removable CD-ROM	<b>5.25" CD-ROM ○</b> / double speed / multi-session / XA / SCSI-2 / bootable The middle bay supports either the standard diskette drive or standard CD-ROM	<b>G10 Graphics with Motion Video provides:</b> <ul style="list-style-type: none"> <li>- <b>Acceleration</b> of motion video with scaling (no interpolation) of image. Video may be scaled up to full screen without frame rate degradation</li> <li>- <b>Composite in</b> (from camcorder, TV, VCR) for video capture (capture and digitize video), still image capture (capture and digitize still photo images), and overlay (view video on LCD without capturing it to disk). Uses NTSC or PAL</li> <li>- <b>Composite out</b> (to camcorder, TV, VCR) in NTSC. So can use TV as an external display or record the contents of the screen to VCR</li> <li>- ThinkPad 850 includes in/out RCA jacks on the back of the system</li> </ul>
Type - model	6042-xxx (listed below)	
Available date	July 1995 or later (listed below)	<b>Options for ThinkPad Power Series 850:</b> <ul style="list-style-type: none"> <li>- Disks: 540 MB SCSI-2 30H1388</li> <li>810 MB SCSI-2 30H1392</li> <li>1.2 GB SCSI-2 30H1467</li> <li>- AC Adapter 50 watts 30H1403</li> <li>- <b>Video Camera (NTSC) 85G2715</b></li> <li>- 850 NiMH Battery Pack 85G2671</li> <li>- 850 Quick Charger 85G2662</li> <li>- IBM Personal Microphone 12H1504</li> <li>- 4 MB IC DRAM 70ns 5v parity 92G7238</li> <li>- 8 MB IC DRAM 70ns 5v parity 92G7241</li> <li>- 16 MB IC DRAM 70ns 5v parity 92G7234</li> <li>- 32 MB IC DRAM 70ns 5v parity 92G7235</li> </ul>
Disk controller	SCSI-2 Fast (for disk, CD-ROM) / external SCSI-2 50 pin connector	
Removable disk - size	Choice: <b>540 MB</b> 14 ms □ ○ / <b>810 MB</b> 14 ms □ ○ / <b>1.2 GB</b> 12 ms ○	<b>FEATURES OF 850 MODELS</b> Battery life and other indicators Non-disruptive battery exchange Suspend mode US EPA Energy Star compliant Personalized nameplate in molded indentation Compatible with PowerPC Reference Platform™ Specifications (PReP) v1.1 <b>3 year warranty</b> <b>International Warranty Service</b> <b>24 hour / 7 day telephone, bulletin board, fax, and electronic support</b> <b>IBM warranty/service</b> <b>30 day money back guarantee</b>
Display - type	Choice: Color 640 x 480 or Color 800 x 600 (listed below)	
Display - technology	<b>Black Matrix TFT - active matrix</b> / up to 65,536 simultaneous colors	<b>ALL 850 MODELS</b> <b>Liftable (pop-up) keyboard to access and remove CD-ROM, diskette drive, disk, and memory (Battery removed from side)</b>
Display - diagonal size	10.4 inch / 100 to 1 contrast ratio for 640 x 480 / 110 to 1 for 800 x 600	
Graphics - controller	WD90C24A Rev C with 1 MB DRAM (called G10 Graphics Adapter)	<b>Architecture</b> PCI 2.0 / 32 bit / 33 MHz / 5 volt (SCSI, motion video) ISA (audio, PCMCIA, diskette, serial, parallel, 120-pin external expansion) VL-Bus 2.0 / 32 bit (graphics via PCI-to-VL Bridge)
Graphics - vendor	Western Digital / External SVGA to 1024 x 768 w/ 256 colors (up to 75 Hz)	
Graph - arch/data path	PCI 2.0 / 32 bit / Simultaneous LCD and CRT / 180 degree tilt	<b>Docking Station</b> None Port replicator None PCMCIA™ 2.1 slots <b>2 Type I or 2 Type II or 1 Type III</b> One 9 pin; 16550A / Enhanced Parallel Port (EPP and IEEE 1284) Other features Universal AC adapter, 50 watts, not wallmount / Drive Startup Sequence
Video function	<b>Video acceleration / composite in/out</b> (called G10 Graphics with Motion Video)	
Video camera	Option: CCD camera on top of LCD / NTSC / white balance, iris, lens focus	<b>Data/fax modem</b> None (use PCMCIA) / voice-over-data using industry standard modems <b>CD quality audio (44.1 kHz, 16 bit, stereo)</b> / Crystal Semiconductor™ CS4231 Internal stereo speakers (1 watt each) / dial volume control Internal microphone / IBM Personal Microphone (earphone and headset) Input jack / output jack / line in / line out (all 3.5 mm) None
Memory - std / max	16 or 32 MB / 80 to 96 MB 70 ns / parity / 5 volt / 64 bit transfers	
Mem - sockets	Standard: 2 SO DIMMs in 2 SO DIMM sockets; available: 2 IC DRAM sockets	<b>Audio support</b> None (use PCMCIA) / voice-over-data using industry standard modems <b>CD quality audio (44.1 kHz, 16 bit, stereo)</b> / Crystal Semiconductor™ CS4231 Internal stereo speakers (1 watt each) / dial volume control Internal microphone / IBM Personal Microphone (earphone and headset) Input jack / output jack / line in / line out (all 3.5 mm) None
Mem-options available	4, 8, 16, 32 MB IC DRAMs / must be installed in matched pairs	
Keyboard / # of keys	Full size alp/num / 84 (no Fn key)	<b>Security</b> Power-on password / Supervisor password / Hardware security loop (locking lever) / Keyboard lock / Locking device keyhole (Kensington™ MicroSaver™ cable lock) / PCMCIA card lock
Keyboard slope	Yes (legs pop out) / <b>palm rest space</b>	
Mouse/pointing	<b>TrackPoint III™</b>	<b>Preinstalled software</b> Choice: none or select a supported operating system (listed below) <b>Warranty</b> <b>3 year - ThinkPad EasyServ</b> <b>Warranty options</b> ThinkPad EasyServ Overnight Repair Option
Ext keyboard support	Yes (with option cable)	
Dimensions	11.7 x 10.2 x 2.4" (286 cubic inches)	<b>Compatible in 820 and 850:</b> ① Disks, ② CD-ROM, ③ AC Adapter
Color	Black	
Weight (with battery)	7.96 pounds (with CD-ROM)	
Battery - type	Nickel hydride (NiMH) / Intelligent	
Battery - life	2 to 5 hours	
Charge time - on / off	2 hrs / 1.5 hrs	

**ThinkPad EasyServ™:** customer calls 1-800-772-2227, courier service picks up ThinkPad at any location, IBM repairs and mails back (no shipping charges, most shipping is overnight, 3 business day average turnaround). Overnight repair option in US available for \$99.  
□ = Upgradeable; ○ = Removable; ⊗ = Withdrawn effective March 20, 1996

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No warranties are expressed or implied in this summary  
(850) Compiled by Roger Dodson, IBM. February 1996

- <sup>1</sup> MHz only measures microprocessor internal clock speed (or bus speed where indicated), not application performance. Other factors also affect application performance.
- <sup>2</sup> Unless otherwise indicated, weight includes battery (and travel cover on ThinkPad 600) and excludes external diskette, CD, and/or DVD drives if applicable; actual weight may vary due to vendor components, manufacturing process and options.
- <sup>3</sup> Current available memory options allow memory expansion up to 160MB using two 64MB SDRAM SO DIMMs in the two available slots for memory expansion. Memory expansion beyond 160MB will depend on the availability of memory options larger than 64MB built to IBM ThinkPad 600-770 specifications and such availability cannot be assured. EDO memory is not supported in ThinkPad 770E/ED models.
- <sup>4</sup> GB means billion bytes when referring to hard drive capacity. Accessible capacity varies.
- <sup>5</sup> Variable read rate. Actual playback speed will vary and is often less than the maximum possible.
- <sup>6</sup> DVD drive required for ThinkPad 770 models (standard in some models). For Dolby Digital output, the 'DVD and Enhanced Video Adapter' (11J8957) must be installed (standard in some models) and the ThinkPad notebook connected to appropriate receiver and external speakers.
- <sup>7</sup> ThinkPad notebooks are delivered with Windows 98 preloaded on the hard disk drive and a Windows 98 Recovery CD in the box. For customers who prefer Windows 95, a Windows 95 Recovery CD is also included for installation of Windows 95. Installation of Windows 95 results in removal of the Windows 98 preload.
- <sup>8</sup> Upgrade on 9549-1AU (770) and -5AU (770ED) and 770X via Internet software download at no additional charge (Internet access fees excepted). Software upgrade via the Internet to the V.90 56K ITU standard beginning in 4Q98. Subject to change without notice. x2 modems are designed to be capable of receiving data at up to 56Kbps from an x2-compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.
- <sup>9</sup> Software upgrade via the Internet to the V.90 56K ITU standard beginning 4Q98. Subject to change without notice.
- <sup>10</sup> Results obtained using BAPCo (Business Applications Performance Corporation) SYSmark Benchmark Test. Battery life and recharge times will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery life may be less using Windows NT.
- <sup>11</sup> For terms and conditions or a copy of IBM's Statement of Limited Warranty, call 1 800 772-2227 in the U.S. and in Canada, call 1 800 426-2255.
- <sup>12</sup> IBM makes no warranties, expressed or implied regarding ThinkPad Proven products and services, including Year 2000 readiness and any implied warranties of merchantability and fitness for a particular purpose.
- <sup>13</sup> If you qualify and subject to condition.
- <sup>14</sup> Available in those countries where IBM and IBM resellers sell and service ThinkPad products. Registration required. Service level is based on the standard service for ThinkPad notebooks in that particular country.
- <sup>15</sup> Service options available based on specific ThinkPad notebook purchased; not all machine types and models are eligible, other limitations apply. Call 1800 426-3395 and request document #11008 or call your IBM authorized reseller for additional information. Service options must be purchased during the original product warranty period.
- <sup>16</sup> Some software may differ from its retail version (if any) and may not include user manuals or all program functionality. Warranty, service and support for non-IBM products are provided directly to you by third parties, not IBM. IBM makes no representations or warranties regarding non-IBM products. For non-IBM software applicable third-party software licenses may apply.

- <sup>17</sup> SelectaDock III, PC Card Enabler, and/or PC Card Enabler with Advanced EtherJet Feature requires optional SelectaBase 600
- <sup>18</sup> SelectaDock III, PC Card Enabler, and/or PC Card Enabler with Advanced EtherJet Feature requires optional SelectaBase 770.
- <sup>19</sup> On ThinkPad 600, DVD drive supports standard CD-ROM and data-only DVD discs. DVD movie playback requires an optional third-party DVD PC Card adapter. DVD movie playback not supported with Windows NT.
- <sup>20</sup> Lotus SmartSuite may be preinstalled or provided on CD-ROM depending on the model. Diskettes and hard copy documentation are available at an extra charge.
- <sup>21</sup> The IBM ThinkPad 770X is designed to recognize up to 320MB of addressable memory with the new Mobile Pentium II processor at 300MHz. 64MB or 128MB of new, fast SDRAM SO DIMM system memory (RAM) is standard, depending on model. Current available memory options allow memory expansion up to 320MB using two 128MB SDRAM SO DIMMs in the two user accessible slots for memory expansion. On models with the 13.7-inch display, one of these slots is currently occupied with a 64MB SDRAM that provides the standard 128MB of system memory. This 64MB SDRAM would have to be removed and replaced with a 128MB SDRAM to achieve the 320MB maximum.
- <sup>22</sup> These 56K V.90 modems are designed to be capable of receiving data at up to 56Kbps from a compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.
- <sup>23</sup> x2 modems are designed to be capable of receiving data at up to 56Kbps from an x2-compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.
- <sup>24</sup> Designed to be capable of receiving at up to 56kbps with x2 or V.90 compatible phone line and server equipment, and transmitting at up to 31.2kbps. Public networks currently limit download speeds to about 53kbps. Actual speeds vary and are often less than the maximum.
- <sup>25</sup> For ThinkPad 600 or 600E, to achieve 288MB memory configuration on models with 64MB standard, you need to replace one 32MB SDRAM SO DIMM in the memory slot with 128MB SDRAM SO DIMM and add a second 128MB SDRAM SO DIMM.
- <sup>26</sup> Multiple monitor support gives you the ability to expand your ThinkPad desktop area by attaching an external monitor or second display, allowing you to view two different applications running simultaneously. External device must support the same maximum resolution and refresh rate as that of the built-in notebook display. Available video memory may limit resolution and/or color depth. Individual application support for this feature will vary.
- <sup>27</sup> Software-supported MPEG-2 playback is supported on ThinkPad 770X and 770Z models with Windows 98. Software-supported MPEG-2 playback and support for video capture on Windows NT models requires the optional 'DVD and Enhanced Video Adapter'.
- <sup>28</sup> For ThinkPad 770, IBM Wake on LAN support available via the optional SelectaBase 770 and PC Card Enabler with Advanced EtherJet Feature or SelectaDock III and a Wake on LAN network interface card. For ThinkPad 600, IBM Wake on LAN support available via the optional SelectaBase 600 and PC Card Enabler with Advanced EtherJet Feature or SelectaDock III and a Wake on LAN network interface card. For the ThinkPad 380Z, 390, 560Z, and 570, IBM Wake on LAN support available via the optional ThinkPad Port Replicator with Advanced EtherJet Feature.
- <sup>29</sup> S.M.A.R.T. is defined as Self-Monitoring, Analysis and Reporting Technology.
- <sup>30</sup> Response time varies. May exclude some holidays.
- <sup>31</sup> ThinkPad EasyServ: customer calls 1-800-772-2227, courier service picks up ThinkPad system at most North American locations, IBM repairs and mails back (no shipping charges, most shipping is overnight, five business day average turnaround). Rapid Depot Repair (12-hour turnaround at depot from the time the machine arrives at the depot; three business day average turnaround) is standard for ThinkPad 600 and 770 systems in warranty and included for all ThinkPad systems as part of any mobile warranty upgrade. sent. Service levels are response objectives and are not guaranteed.

<sup>32</sup> Onsite service: for customers who have purchased on-site service options, LCD screen replacements and other selected repair replacements may be completed at a Depot repair center at IBM's discretion. National on-site coverage is available for selected ThinkPad products 8 a.m. to 5 p.m., customer's time zone, Monday through Friday, excluding holidays, next business day response. Not available in Alaska, Hawaii, Montana, and Wyoming (depot repair service only). Available in selected locations in other states.

<sup>33</sup> Maximum memory varies depending on model, and may require replacement of standard memory with optional maximum memory module.

<sup>34</sup> On ThinkPad 770X and 770Z, software-supported DVD movie playback is supported with an optional DVD drive (standard on some models) and Windows 98. All other 770 models require the optional DVD and Enhanced Video Adapter and either Windows 95 or Windows 98 for DVD movie playback.

<sup>35</sup> SystemXtra is available to commercial and state and local government customers with valid credit. Program is subject to change without notice. Additional terms, conditions and limitations may apply. IBM Global Financing offerings are made available through IBM Credit Corporation in the US and other IBM subsidiaries and divisions worldwide.

<sup>36</sup> ThinkPad 390, 570 and 600: thickness may vary at certain points on the system.

<sup>37</sup> These 56K V.90 modems are designed to be capable of receiving data at up to 56Kbps from a K56Flex or V.90 compatible service provider, and transmitting data at up to 31.2Kbps. Public networks currently limit maximum download speeds to about 53Kbps. Actual speeds depend on many factors and are often less than the maximum possible.

<sup>38</sup> DVD movie playback not supported with Windows NT.

<sup>39</sup> External device must support the same maximum resolution and refresh rate as that of the built-in notebook display.

These systems ship with an operating system.

As an ENERGY STAR Partner, the IBM Personal Systems Group has determined that this product meets the ENERGY STAR guidelines for energy efficiency. ENERGY STAR is a U.S. registered mark.

<sup>40</sup> Delivered with Windows 98 SE preloaded on the hard disk drive and a Windows 98SE Recovery CD in the box. For customers who prefer Windows 95, a Windows 95 Recovery CD is also included for installation of Windows 95. Installation of Windows 95 results in removal of the Windows 98 preload.

<sup>41</sup> For the models with Intel SpeedStep technology, denotes maximum performance mode; battery optimization mode is a lower MHz speed.



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IBM Personal System Group  
Department GFWA  
3039 Cornwallis Road  
Research Triangle Park, NC 27709

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