



Personal Systems Reference
IBM NetVista Desktops
2000 to present - withdrawn

October 2004 - *Version 283*




IBM® NetVista™ A20 (6266) - withdrawn

Name	Type-model	Color	Slot/bay	Processor	MHz ¹	Memory	Disk	CD-ROM	Graphics	Ethernet	Chip	Preload	Avail
A20	6266-E2U	Black	3x3	Celeron™	633/66	64MB	10GB ²	None	GMCH	None	810E ⁸	Windows® 98 SE ⁵	Oct 00
A20	6266-E3U	Black	3x3	Celeron	633/66	64MB	10GB	48X-20X ⁴	GMCH	10/100 EtherJet™	810E	Windows 98 SE	Oct 00
A20	6266-E4U	Black	3x3	Celeron	633/66	128MB	10GB	None	GMCH	10/100 EtherJet	810E	Windows 2000	Oct 00
A20	6266-F2U	Black	3x3	Celeron	667/66	64MB	10GB	48X-20X	GMCH	10/100 Accton®	810E	Windows 98 SE	Nov00
A20	6266-F3U	Black	3x3	Celeron	667/66	128MB	10GB	None	GMCH	10/100 EtherJet	810E	Windows 2000	Nov00
A20	6266-M6U	Black	3x3	Celeron	733/66	64MB	10GB	48X-20X	GMCH	10/100 Accton	810E	Windows 98 SE	Nov00
A20	6266-M8U	Black	3x3	Celeron	733/66	128MB	10GB	None	GMCH	10/100 EtherJet	810E	Windows 2000	Nov00
A20	6266-M9U	Black	3x3	Celeron	733/66	128MB	10GB	48X-20X	GMCH	None	810E	Windows 2000	Nov00
A20	6266-N3U	Black	3x3	Pentium® III	800/133	64MB	10GB	48X-20X	GMCH	10/100 EtherJet	810E	Windows 98 SE	Oct 00
A20	6266-N4U	Black	3x3	Pentium III	800/133	128MB	10GB	None	GMCH	10/100 EtherJet	810E	Windows 2000	Oct 00
A20	6266-P2U	Black	3x3	Pentium III	866/133	128MB	10GB	48X-20X	GMCH	10/100 EtherJet	810E	Windows 98 SE	Nov00
A20	6266-P8U	Black	3x3	Pentium III	866/133	128MB	10GB	None	GMCH	10/100 EtherJet	810E	Windows 2000	Nov00

Education models (includes flyer for free educational software)

A20	6266-DDU	Black	3x3	Celeron	633/66	64MB	10GB	48X-20X	GMCH	10/100 Accton	810E	98 SE, education	Nov00
A20	6266-EAU	Black	3x3	Celeron	733/66	64MB	10GB	48X-20X	GMCH	10/100 Accton	810E	98 SE, education	Nov00
A20	6266-EEU	Black	3x3	Pentium III	733/133	64MB	10GB	48X-20X	GMCH	10/100 Accton	810E	98 SE, education	Nov00
A20	6266-FFU	Black	3x3	Pentium III	800/133	64MB	10GB	48X-20X	GMCH	10/100 Accton	810E	98 SE, education	Nov00
A20	6266-GGU	Black	3x3	Pentium III	866/133	64MB	10GB	48X-20X	GMCH	10/100 Accton	810E	98 SE, education	Nov00

Processor	Intel® Celeron 633, 667, or 733MHz ¹ with 66MHz FSide Bus or Intel Pentium III 733, 800EB, or 866MHz with 133MHz FS Bus	Desktop Bay ① 3.5", SL 1", access, std diskette Bay ② 5.25", HH 1.6" access, std or opt CD-ROM Bay ③ 3.5", SL 1", no access, std disk
Implementation L2 cache	Processor and L2 cache in FC-PGA in PGA370 socket <i>Celeron:</i> 128KB std and max / ECC / full speed <i>Pentium III:</i> 256KB std and max / ECC / full speed	
Memory - std/max Memory - sockets Memory - type	64MB or 128MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz	Slot 1: 32-bit Low Profile PCI 2.2 (5v) - ethernet (some) Slot 2: 32-bit Low Profile PCI 2.2 (5v) Slot 3: 32-bit Low Profile PCI 2.2 (5v)
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card	 <ul style="list-style-type: none"> • Stealth black color
Graphics - controller	SVGA / Direct AGP / in 810E Graphics Memory Controller Hub (GMCH) / OMB std and max / 15-pin analog D-sub connector / DVMT; uses main memory with no display cache	
Disk Disk controller Diskette drive CD-ROM	ATA-66, value, SMART ³ III Enhanced IDE / ATA-66 / integrated into I/O Controller Hub (ICH) 3.5: 1.44MB diskette drive <i>Some models:</i> 48X-20X ⁴ CD-ROM / bootable	SECURITY <ul style="list-style-type: none"> • Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) • U-bolt anchoring feature • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control
Architecture Chip set	Accelerated Hub Architecture / 266MB/sec I/O channel Intel 810E ⁹ chip set / 82810 Graphics Memory Controller Hub (GMCH) / 82801 I/O Controller Hub (ICH) for PCI 2.2 bus at 32-bit 33MHz, ATA-66 EIDE, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond 83627HF Super I/O for diskette, parallel, serial, keyboard, mouse	
Ports Audio	<i>Back:</i> One serial, one parallel, two USB (Version 1.1), keyboard, mouse Integrated digital audio / software-based audio (done by processor and 810E) / AC '97 interface / ADI 1881 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)	
Audio connectors Speakers	<i>Back:</i> microphone jack, line-in, line-out None / requires powered speakers	
Ethernet controller	<i>Some models:</i> IBM 10/100 EtherJet™ PCI Adapter with Alert on LAN 2 (system does not support Alert on LAN) / 82559 / RJ45 / part number 34L1101 <i>Some models:</i> 10/100 ethernet / Accton 32-bit PCI adapter / full duplex / part number 19K4310	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0a • System Management BIOS • DMI 2.0-compliant • RPL and DHCP support via optional ethernet adapter
Keyboard / mouse Power supply	104 key (rubber dome) keyboard / IBM 2-button mouse 95 watts with variable speed fan / universal / manual switch	
Preload with Windows 98⁵ Microsoft® Windows® 98 Second Edition - Lotus SmartSuite license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (in Service Partition) ♦ Software Selections CD-ROM Preload with Windows 2000⁵ Microsoft® Windows® 2000 Professional - Lotus® SmartSuite® license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (Windows 2000 or one-time option to convert to NT 4.0) ♦ Software Selections CD-ROM		Options 64MB SDRAM 133MHz NP DIMM 33L3071 128MB SDRAM 133MHz NP DIMM 33L3073 256MB SDRAM 133MHz NP DIMM 33L3075 Rapid Access™ Keyboard II (black) 33L3174 10.1GB IDE Disk ATA-66(Value) 00N8202 15GB IDE Disk ATA-100 (Value) 19K4463 Zip Drive 250MB (white/black) 00N8078 5.25 to 3.5 DASD Bay Conversion K 70G8165 8X/4X/32X ⁴ CD-RW Internal (black) 33L5020 8X/4X/32X ⁴ CD-RW Internal (white) 33L5019 48X-20X ⁴ IDE CD-ROM (black) 10K3782 48X-20X ⁴ IDE CD-ROM (white) 33L5001 8X-2X ⁴ DVD-ROM Internal IDE (black) 33L5016 DVD MPEG-2 Decoder Card 33L5009 10/100 Accton® ethernet PCI adaptr 19K4301 56K Data/Fax PCI modem ¹⁰ 33L4618 ADSL / V.90 Combo PCI low profile 19K4160 V.90 ¹⁰ Modem PCI low profile 19K4162
		6266 Dimensions 12.09"W x 15.01"D x 3.55"H 307mm W x 382mm D x 90 mm H 14 to 15 lbs (6.4 to 6.8 kg)
		LIMITED WARRANTY⁹ ⇨ 3 year parts / 1 year labor warranty ⇨ International Warranty Service ⁹ ⇨ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ⇨ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ⇨ 3 year on site options available: • Next day response ⁷ , Mon-Fri 8-5 • 4 hour response ⁷ , 7 day x 24 hr ⇨ Post warranty maintenance services available ⇨ IBM SystemXtra ^{®.16} ⇨ 24 hour x 7 day telephone, electronic, and internet support

All trademarks are the property of their respective owners
 US models announced October 31 or November 14, 2000
 Models withdrawn effective March 2001 or May 2001

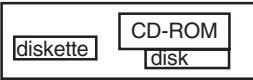
No warranties are expressed or implied in this summary
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IBM® NetVista™ A20 (6266) - Winter 2001 - withdrawn

Name	Type-model	Color	Slot/bay	Processor	MHz ¹ or GHz ¹	Memory	Disk	CD-ROM	Graphics	Ethernet	Chip	Preload	Available
A20	6266-H4U	Black	3x3	Celeron™	766MHz	128MB	20GB ²	48X-20X ⁴	GMCH	10/100 Accton	810E ⁸	Windows® Me ⁵	Feb 2001
A20	6266-HBU	Black	3x3	Celeron	800MHz	128MB	20GB	48X-20X	GMCH	10/100 Accton	810E	Windows 2000	May 2001
A20	6266-PKU	Black	3x3	Pentium® III	933MHz	128MB	20GB	48X-20X	GMCH	10/100 EtherJet	810E	Windows 2000	Feb 2001
A20	6266-QAU	Black	3x3	Pentium III	1.0GHz	128MB	20GB	48X-20X	GMCH	10/100 EtherJet	810E	Windows 2000	Feb 2001
A20	6266-Q6U	Black	3x3	Pentium III	1.0GHz	64MB	20GB	48X-20X	GMCH	10/100 EtherJet	810E	Windows 98SE	May 2001

Education models (includes flyer for free educational software)

A20	6266-EBU	Black	3x3	Celeron	766MHz	64MB	10GB	48X-20X	GMCH	10/100 Accton	810E	Windows Me, educ	Feb 2001
A20	6266-GHU	Black	3x3	Pentium III	933MHz	64MB	10GB	48X-20X	GMCH	10/100 Accton	810E	Windows Me, educ	Feb 2001


Processor	Intel® Celeron 766MHz ¹ with 66MHz Front Side Bus or Intel Celeron 800MHz with 100MHz Front Side Bus or Intel Pentium III 933MHz or 1.0GHz with 133MHz FS Bus	Desktop 																																																						
Implementation L2 cache	Processor and L2 cache in FC-PGA in PGA370 socket Celeron: 128KB std and max / ECC / full speed Pentium III: 256KB std and max / ECC / full speed																																																							
Memory - std/max Memory - sockets Memory - type	64MB or 128MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz	Bay ① 3.5", SL 1", access, std diskette Bay ② 5.25", HH 1.6" access, std CD-ROM Bay ③ 3.5", SL 1", no access, std disk Slot 1: 32-bit Low Profile PCI 2.2 (5v) - ethernet Slot 2: 32-bit Low Profile PCI 2.2 (5v) Slot 3: 32-bit Low Profile PCI 2.2 (5v)																																																						
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card	<ul style="list-style-type: none"> Stealth black color 12.09" W x 15.01" D x 3.55" H 307mm W x 382mm D x 90 mm H 14 to 15 lbs (6.4 to 6.8 kg) 																																																						
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Disk Disk controller Diskette drive CD-ROM	ATA-66, value, SMART ³ III Enhanced IDE / ATA-66 / integrated into I/O Controller Hub (ICH) 3.5: 1.44MB diskette drive 48X-20X ⁴ CD-ROM / bootable	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 99-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0a System Management BIOS DMI 2.0-compliant RPL and DHCP support via optional ethernet adapter 																																																						
Architecture Chip set	Accelerated Hub Architecture / 266MB/sec I/O channel Intel 810E⁹ chip set / 82810 Graphics Memory Controller Hub (GMCH) / 82801 I/O Controller Hub (ICH) for PCI 2.2 bus at 32-bit 33MHz, ATA-66 EIDE, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond 83627HF Super I/O for diskette, parallel, serial, keyboard, mouse																																																							
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Microsoft® Windows® 98 Second Edition	64MB SDRAM 133MHz NP DIMM		33L3071																																																					
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* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US models announced January 30, 2001 or May 8, 2001
 US models withdrawn effective November 2001

No warranties are expressed or implied in this summary
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IBM® NetVista™ A20 (6269) - withdrawn

Name	Type-model	Color	Slot/bay	Processor	MHz ¹	Memory	Disk	CD-ROM	Graphics	Ethernet	Chip	Preload	Avail
A20	6269-C1U	White	3x4	Celeron™	533/66	64MB	10GB ²	None	AGP 2X GMCH	None	810E	Windows 98 SE	Jun 00
A20	6269-C2U	White	3x4	Celeron	533/66	64MB	10GB	40X-17X ⁴	AGP 2X GMCH	10/100	810E	Windows 98 SE	Jun 00
A20	6269-D1U	White	3x4	Celeron	566/66	64MB	10GB	None	AGP 2X GMCH	None	810E	Windows 98 SE	Jun 00
A20	6269-D2U	White	3x4	Celeron	566/66	64MB	10GB	40X-17X	AGP 2X GMCH	10/100	810E	Windows 98 SE	Jun 00
A20	6269-E1U	White	3x4	Celeron	600/66	64MB	10GB	None	AGP 2X GMCH	None	810E	Windows 98 SE	Jun 00
A20	6269-E2U	White	3x4	Celeron	600/66	64MB	10GB	40X-17X	AGP 2X GMCH	10/100	810E	Windows 98 SE	Jun 00
A20	6269-K1U	White	3x4	Pentium® III	650/100	64MB	10GB	None	AGP 2X GMCH	None	810E	Windows 98 SE	Jun 00
A20	6269-K2U	White	3x4	Pentium III	650/100	64MB	10GB	40X-17X	AGP 2X GMCH	10/100	810E	Windows 98 SE	Jun 00
A20	6269-L1U	White	3x4	Pentium III	700/100	64MB	10GB	None	AGP 2X GMCH	None	810E	Windows 98 SE	Jun 00
A20	6269-L2U	White	3x4	Pentium III	700/100	64MB	10GB	40X-17X	AGP 2X GMCH	10/100	810E	Windows 98 SE	Jun 00
A20	6269-M1U	White	3x4	Pentium III	667/133	64MB	10GB	None	AGP 2X GMCH	None	810E	Windows 98 SE	Jun 00
A20	6269-M2U	White	3x4	Pentium III	667/133	64MB	10GB	40X-17X	AGP 2X GMCH	10/100	810E	Windows 98 SE	Jun 00
A20	6269-N1U	White	3x4	Pentium III	733/133	64MB	10GB	None	AGP 2X GMCH	None	810E	Windows 98 SE	Jun 00
A20	6269-N2U	White	3x4	Pentium III	733/133	64MB	10GB	40X-17X	AGP 2X GMCH	10/100	810E	Windows 98 SE	Jun 00
A20	6269-20U	White	3x4	Celeron	533/66	0MB	None	None	AGP 2X GMCH	None	810E	None	Jun 00
A20	6269-30U	White	3x4	Celeron	566/66	0MB	None	None	AGP 2X GMCH	None	810E	None	Jun 00
A20	6269-40U	White	3x4	Celeron	600/66	0MB	None	None	AGP 2X GMCH	None	810E	None	Jun 00
A20	6269-50U	White	3x4	Pentium III	667/133	0MB	None	None	AGP 2X GMCH	None	810E	None	Jun 00
A20	6269-60U	White	3x4	Pentium III	733/133	0MB	None	None	AGP 2X GMCH	None	810E	None	Jun 00
A20	6269-70U	White	3x4	Pentium III	650/100	0MB	None	None	AGP 2X GMCH	None	810E	None	Jun 00
A20	6269-80U	White	3x4	Pentium III	700/100	0MB	None	None	AGP 2X GMCH	None	810E	None	Jun 00

Processor	Intel® Celeron™ 533, 566, or 600MHz ¹ with 66MHz FSB or Intel Pentium III 650 or 700MHz with 100MHz Front Side Bus or Intel Pentium III 667 or 733MHz with 133MHz Front Side Bus	Desktop 6269 Slot 1: 3/4-size (7.2"), 32-bit PCI 2.2 (5v) - ether in some Slot 2: 3/4-size (7.2"), 32-bit PCI 2.2 (5v) Slot 3: 3/4-size (10"), 32-bit PCI 2.2 (5v) Bay ① 5.25", HH 1.6", access, std or opt CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk
Implementation	Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA) in PGA370 socket Celeron: 128KB std and max / ECC / full speed Pentium III: 256KB std and max / ECC / full speed	
L2 cache	Celeron: 128KB std and max / ECC / full speed Pentium III: 256KB std and max / ECC / full speed	 <ul style="list-style-type: none"> • Pearl white color • Bay 1 and 2 in cage flips up • Bay 3 and 4 in cage flips up
Memory - std/max	64MB std / 512MB max	
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used	
Memory - type	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz	
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card	
Graphics - controller	AGP 2X-class graphics / Direct AGP / in 82810 Graphics Memory Controller Hub (GMCH) / 0MB std and max display cache / Dynamic Video Memory Technology (DVMT) uses main memory / 2D and 3D hardware acceleration / VESA DPMS, DDC1/DDC2B / 15-pin D-shell analog connector on back	
Disk	ATA-66, SMART ³ III	
Disk controller	Enhanced IDE / ATA-66 / integrated into I/O Controller Hub (ICH)	
Diskette drive	3.5: 1.44MB diskette drive	
CD-ROM	Some models: 40X-17X ⁴ CD-ROM / bootable	
Architecture	Accelerated Hub Architecture / 266MB/sec I/O channel	
Chip set	Intel 810E ⁵ chip set / 82810 Graphics Memory Controller Hub (GMCH) / 82801 I/O Controller Hub (ICH) for PCI 2.2 bus, ATA-66 EIDE, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond 83627HF Super I/O for diskette, parallel, serial, keyboard, mouse	
Ports	Back: One serial, one parallel, two USB (Version 1.1), keyboard, mouse	
Audio	Integrated digital audio / software-based audio (done by processor and 810E) / AC '97 interface / ADI 1881 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)	
Audio connectors	Back: microphone jack, line-in, line-out, MIDI/game port	
Speakers	None / requires powered speakers	
Modem	None standard	
Ethernet controller	10/100 ethernet / Accton® 32-bit PCI adapter / full duplex	
Systems mgmt cntrl	None / no support for monitoring of voltages or temperatures	
Keyboard / mouse	104 key (rubber dome) keyboard / IBM 2-button mouse	
Power supply	155 watts with variable speed fan / universal / manual switch	
Windows 98 Preload⁶	Microsoft® Windows® 98 Second Edition - Lotus SmartSuite license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (in Service Partition) ◇ Software Selections CD-ROM	SECURITY <ul style="list-style-type: none"> • Knockout in rear for optional keylock to lock cover to chassis • U-bolt anchoring feature • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control SYSTEMS MANAGEMENT <ul style="list-style-type: none"> • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0a • System Management BIOS • DMI 2.0-compliant • RPL and DHCP support Dimensions - 16.7"W X 16.7"D X 5.5"H - 425mmW X 425mmD X 140mmH - 23 lb
Options	64MB SDRAM 133MHz NP DIMM 33L3071 128MB SDRAM 133MHz NP DIMM 33L3073 256MB SDRAM 133MHz NP DIMM 33L3075 Rapid Access™ Keyboard II (p wht) 33L3154 Rapid Access™ Keyboard II (black) 33L3174 10.1GB IDE Hard Drive (Value) 00N8202 15GB IDE Hard Drive (Value) 19K4463 Zip Drive 250MB 00N8078 8X/4X/32X CD-RW Internal Drive 33L5019 48X-20X ⁴ IDE CD-ROM 33L5001 8X DVD-ROM 33L5015 10/100 Accton ethernet PCI adapter 19K4310	
LIMITED WARRANTY⁹		
⇨ 3 year parts / 1 year labor warranty ⇨ International Warranty Service ⁹ ⇨ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ⇨ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ⇨ On site warranty upgrade options: • Next day response ⁷ , Mon-Fri 8-5 • 4 hour response ⁷ , 7 day x 24 hr ⇨ Post warranty: on site options above ⇨ IBM SystemXtra ^{®16} ⇨ 24 hour x 7 day telephone, electronic, and Internet support		

All trademarks are the property of their respective owners
Models announced June 22, 2000; withdrawn effective January 2001

No warranties are expressed or implied in this summary
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IBM® NetVista™ A20 (6269) - Fall 2000 - withdrawn

Name	Type-model	Color	Slot/bay	Processor	MHz ¹	Memory	Disk	CD-ROM	Graphics	Ethernet	Chip	Preload	Avail
A20	6269-F1U	White	3x4	Celeron™	633/66	64MB	10GB ²	None	GMCH	None	810E	Windows 98 SE	Sep 00
A20	6269-F3U	White	3x4	Celeron	633/66	128MB	10GB	None	GMCH	10/100 EtherJet™	810E	Windows 2000	Sep 00
A20	6269-N4U	White	3x4	Pentium® III	733/133	128MB	10GB	None	GMCH	10/100 EtherJet	810E	Windows 2000	Sep 00
A20	6269-P4U	White	3x4	Pentium III	800/133	128MB	10GB	None	GMCH	10/100 EtherJet	810E	Windows 2000	Sep 00
A20	6269-F2U	White	3x4	Celeron	633/66	64MB	10GB	48X-20X ⁴	GMCH	10/100 Accton®	810E	Windows 98 SE	Nov 00
A20	6269-G2U	White	3x4	Celeron	667/66	64MB	10GB	48X-20X	GMCH	10/100 Accton	810E	Windows 98 SE	Nov 00
A20	6269-H1U	White	3x4	Celeron	700/66	64MB	10GB	None	GMCH	None	810E	Windows 98 SE	Nov 00
A20	6269-H2U	White	3x4	Celeron	700/66	64MB	10GB	48X-20X	GMCH	10/100 Accton	810E	Windows 98 SE	Nov 00
A20	6269-P1U	White	3x4	Pentium III	800/133	64MB	10GB	None	GMCH	None	810E	Windows 98 SE	Nov 00
A20	6269-P3U	White	3x4	Pentium III	800/133	64MB	10GB	48X-20X	GMCH	10/100 Accton	810E	Windows 98 SE	Nov 00

Processor	Intel® Celeron™ 633, 667, or 700MHz¹ with 66MHz FSB or Intel Pentium III 733 or 800MHz with 133MHz Front Side Bus	Desktop 6269 Slot 1: 8 inch max, 32-bit PCI 2.2 (5v) - ether in some Slot 2: 8 inch max, 32-bit PCI 2.2 (5v) Slot 3: 8 inch max, 32-bit PCI 2.2 (5v) Bay ① 5.25", HH 1.6", access, std or opt CD-ROM Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk
Implementation	Processor and L2 cache in Flip-Chip Pin Grid Array(FC-PGA) in PGA370 socket	
L2 cache	<i>Celeron:</i> 128KB std and max / ECC / full speed <i>Pentium III:</i> 256KB std and max / ECC / full speed	<ul style="list-style-type: none"> • Pearl white color • Bay 1 and 2 in cage flips up • Bay 3 and 4 in cage flips up
Memory - std/max Memory - sockets Memory - type	64MB or 128MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz	
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0a • System Management BIOS • DMI 2.0-compliant • RPL and DHCP support
Graphics - controller	AGP 2X-class graphics / Direct AGP / in 82810 Graphics Memory Controller Hub (GMCH) / 0MB std and max display cache / Dynamic Video Memory Technology (DVMT) uses main memory / 2D and 3D hardware acceleration / VESA DPMS, DDC1/DDC2B / 15-pin D-shell analog connector on back	
Disk Disk controller Diskette drive CD-ROM	ATA-66, SMART ³ III Enhanced IDE/ ATA-66 / integrated into I/O Controller Hub (ICH) 3.5: 1.44MB diskette drive <i>Some models:</i> 48X-20X ⁴ CD-ROM / bootable	
Architecture Chip set	Accelerated Hub Architecture / 266MB/sec I/O channel Intel 810E⁸ chip set / 82810 Graphics Memory Controller Hub (GMCH) / 82801 I/O Controller Hub (ICH) for PCI 2.2 bus at 32-bit 33MHz, ATA-66 EIDE, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond 83627HF Super I/O for diskette, parallel, serial, keyboard, mouse	
Ports Audio	<i>Back:</i> One serial, one parallel, two USB (Version 1.1), keyboard, mouse Integrated digital audio / software-based audio (done by processor and 810E) / AC '97 interface / ADI 1881 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)	SECURITY <ul style="list-style-type: none"> • Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) • U-bolt anchoring feature • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control
Audio connectors Speakers	<i>Back:</i> microphone jack, line-in, line-out, MIDI/game port None / requires powered speakers	
Modem Ethernet controller	None standard <i>Some models:</i> IBM 10/100 EtherJet PCI Management Adapter / 82559 / 10BaseT and 100Base TX / RJ45 connector / pn 34L1201 / Wake on LAN® <i>Some models:</i> 10/100 ethernet / Accton 32-bit PCI adapter / full duplex / part number 19K4310	
Systems mgmt cntrl	None / no support for monitoring of voltages or temperatures	
Keyboard / mouse Power supply	104 key (rubber dome) keyboard / IBM 2-button mouse 155 watts with variable speed fan / universal / manual switch	LIMITED WARRANTY⁹ <ul style="list-style-type: none"> ⇨ 3 year parts / 1 year labor warranty ⇨ International Warranty Service⁹ ⇨ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ⇨ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ⇨ On site warranty upgrade options: <ul style="list-style-type: none"> • Next day response⁷, Mon-Fri 8-5 • 4 hour response⁷, 7 day x 24 hr ⇨ Post warranty: on site options above ⇨ IBM SystemXtra^{®16} ⇨ 24 hour x 7 day telephone, electronic, and Internet support

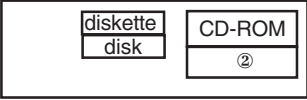
Windows 98 Preload ⁹	Options
Microsoft® Windows® 98 Second Edition	64MB SDRAM 133MHz NP DIMM 33L3071
- Lotus SmartSuite license ⁶	128MB SDRAM 133MHz NP DIMM 33L3073
- Lotus Notes® Client 5.0 license ⁶	256MB SDRAM 133MHz NP DIMM 33L3075
- Disk-to-Disk Recovery (in Service Partition)	Rapid Access™ Keyboard II (p wht) 33L3154
⇨ Software Selections CD-ROM	Rapid Access™ Keyboard II (black) 33L3174
	10.1GB IDE Disk ATA-66(Value) 00N8202
	15GB IDE Disk ATA-100 (Value) 19K4463
	Zip Drive 250MB 00N8078
Windows 2000 Preload⁵	8X/4X/32X CD-RW Internal Drive 33L5019
Microsoft® Windows® 2000 Professional	48X-20X ⁴ IDE CD-ROM 33L5001
- Lotus® SmartSuite® license ⁶	8X DVD-ROM 33L5015
- Lotus Notes® Client 5.0 license ⁶	DVD MPEG-2 Decoder Card 33L5009
- Disk-to-Disk Recovery (Windows NT 4.0 or Windows 2000)	10/100 Accton® ethernet PCI adaptpr 19K4310
⇨ Software Selections CD-ROM	TR5 IDE Tape Drive 20L0549
	TR5 SCSI Tape Drive 01K1319
	USB External Zip 00N9911
	56K Data/Fax PCI modem 33L4618
	ADSL / V.90 Combo PCI low profile 19K4160
	V.90 Modem PCI low profile 19K4162

All trademarks are the property of their respective owners
 US Models announced September 12 or November 14, 2000
 US Models withdrawn from marketing effective March 2001

No warranties are expressed or implied in this summary
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IBM® NetVista™ A20 (6269) - Spring 2001 - withdrawn

Name	Type-model	Color	Slot/bay	Processor	MHz ¹	Memory	Disk	CD	Graphics	Ethernet	Chip	Preload	Available
A20	6269-AFU	White	3x4	Celeron	800/100	128MB	20GB	CD-ROM	GMCH	10/100 Accton	810E	Windows 2000	May 2001
A20	6269-AGU	White	3x4	Celeron	800/100	64MB	10GB	CD-ROM	GMCH	10/100 Accton	810E	Windows 98SE	May 2001
A20	6269-V4U	White	3x4	Pentium III	1GHz/133	64MB	10GB	CD-ROM	GMCH	10/100 Accton	810E	Windows 98SE	May 2001

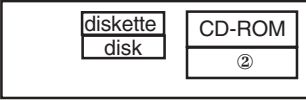
Processor	Intel® Celeron™ 800MHz with 100MHz Front Side Bus or Intel Pentium® III 1.0GHz with 133MHz Front Side Bus	Desktop 6269 Slot 1: 8 inch max, 32-bit PCI 2.2 (5v) - ethernet adapter Slot 2: 8 inch max, 32-bit PCI 2.2 (5v) Slot 3: 8 inch max, 32-bit PCI 2.2 (5v) Bay ① 5.25", HH 1.6", access, standard CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk  <ul style="list-style-type: none"> • Pearl white color • Bay 1 and 2 in cage flips up • Bay 3 and 4 in cage flips up
Implementation	Processor and L2 cache in Flip-Chip Pin Grid Array(FC-PGA) in PGA370 socket	
L2 cache	<i>Celeron:</i> 128KB std and max / ECC / full speed <i>Pentium III:</i> 256KB std and max / ECC / full speed	
Memory - std/max Memory - sockets Memory - type	64MB or 128MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz	
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card	Dimensions - 16.7"W X 16.7"D X 5.5"H - 425mmW X 425mmD X 140mmH - 23 lb
Graphics - controller	AGP 2X -class graphics / Direct AGP / in 82810 Graphics Memory Controller Hub (GMCH) / 0MB std and max display cache / Dynamic Video Memory Technology (DVMT) uses main memory / 2D and 3D hardware acceleration / VESA DPMS, DDC1/DDC2B / 15-pin D-shell analog connector on back	
Disk Disk controller Diskette drive CD-ROM	ATA-66, SMART ³ III Enhanced IDE / ATA-66 / integrated into I/O Controller Hub (ICH) 3.5: 1.44MB diskette drive 48X-20X ⁴ CD-ROM / bootable	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0a • System Management BIOS • DMI 2.0-compliant • RPL and DHCP support
Architecture Chip set	Accelerated Hub Architecture / 266MB/sec I/O channel Intel 810E⁵ chip set / 82810 Graphics Memory Controller Hub (GMCH) / 82801 I/O Controller Hub (ICH) for PCI 2.2 bus at 32-bit 33MHz, ATA-66 EIDE, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond 83627HF Super I/O for diskette, parallel, serial, keyboard, mouse	SECURITY <ul style="list-style-type: none"> • Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) • U-bolt anchoring feature • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control
Ports Audio	<i>Back:</i> Two serial, one parallel, two USB (Version 1.1), keyboard, mouse Integrated digital audio / software-based audio (done by processor and 810E) / AC '97 interface / ADI 1881 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)	LIMITED WARRANTY*⁹ ⇨ 3 year parts / 1 year labor warranty ⇨ International Warranty Service⁹ ⇨ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ⇨ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ⇨ 3 year on site warranty service upgrade options: <ul style="list-style-type: none"> • Next day response, Mon-Fri 8-5⁷ • 4 hour response, 7 day x 24 hr⁷ ⇨ Post warranty maintenance services available ⇨ 24 hour x 7 day telephone, electronic, and Internet support
Audio connectors Speakers	<i>Back:</i> microphone jack, line-in, line-out, MIDI/game port None / requires powered speakers	
Modem Ethernet controller	None standard 10/100 ethernet / Accton 32-bit PCI adapter / full duplex / part number 19K4310	
Systems mgmt cntrl	None / no support for monitoring of voltages or temperatures	
Keyboard / mouse Power supply	104 key (rubber dome) keyboard / IBM 2-button mouse 155 watts with variable speed fan / universal / manual switch	
Preload with Windows 98SE⁵	Options	
Microsoft® Windows® 98 Second Edition	64MB SDRAM 133MHz NP DIMM	33L3071
- Lotus SmartSuite license ⁶	128MB SDRAM 133MHz NP DIMM	33L3073
- Lotus Notes® Client 5.0 license ⁶	256MB SDRAM 133MHz NP DIMM	33L3075
- Disk-to-Disk Recovery (in Service Partition)	Rapid Access™ Keyboard II (p wht)	33L3154
◇ Software Selections CD-ROM	Rapid Access™ Keyboard II (black)	33L3174
	10.1GB IDE Disk ATA-66(Value)	00N8202
	15GB IDE Disk ATA-100 (Value)	19K4463
	Zip Drive 250MB	00N8078
	8X/4X/32X ⁴ CD-RW (pearl white)	33L5019
	48X-20X ⁴ IDE CD-ROM (pearl white)	33L5001
	8X/32X max DVD-ROM (pearl white)	33L5015
	DVD MPEG-2 Decoder Card	33L5009
	10/100 Accton® ethernet PCI adaptpr	19K4310
	TR5 IDE Tape Drive	20L0549
	TR5 SCSI Tape Drive	01K1319
	USB External Zip	00N9911
	56K Data/Fax PCI modem	33L4618
	ADSL / V.90 Combo PCI low profile	19K4160
	V.90 Modem PCI low profile	19K4162
Preload with Windows 2000⁵		
Microsoft® Windows® 2000 Professional		
- Lotus® SmartSuite® license ⁶		
- Lotus Notes® Client 5.0 license ⁶		
- Disk-to-Disk Recovery (Windows NT 4.0 or Windows 2000)		
◇ Software Selections CD-ROM		

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US models announced May 8, 2001
 US models withdrawn effective November 2001

No warranties are expressed or implied in this summary
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IBM® NetVista™ A20 (6269) - Winter 2001 - withdrawn

Name	Type-model	Color	Slot/bay	Processor	MHz ¹	Memory	Disk	CD	Graphics	Ethernet	Chip	Preload	Available
A20	6269-H6U	White	3x4	Celeron™	700/66	64MB	10GB ²	CD-ROM	GMCH	10/100 Accton®	810E	Windows® Me ⁵	Feb 2001
A20	6269-HCU	White	3x4	Celeron	700/66	128MB	10GB	CD-ROM	GMCH	10/100 Accton	810E	Windows 2000	Feb 2001
A20	6269-J4U	White	3x4	Celeron	733/66	128MB	10GB	CD-ROM	GMCH	10/100 Accton	810E	Windows 2000	Feb 2001
A20	6269-A6U	White	3x4	Celeron	766/66	128MB	10GB	CD-ROM	GMCH	10/100 Accton	810E	Windows 2000	Feb 2001
A20	6269-SAU	White	3x4	Celeron	766/66	128MB	20GB	CD-ROM	GMCH	10/100 Accton	810E	Windows Me, SB	Apr 2001
A20	6269-RBU	White	3x4	Pentium® III	866/133	128MB	10GB	CD-ROM	GMCH	10/100 Accton	810E	Windows Me	Feb 2001
A20	6269-RAU	White	3x4	Pentium III	866/133	128MB	10GB	CD-ROM	GMCH	10/100 Accton	810E	Windows 2000	Feb 2001
A20	6269-U6U	White	3x4	Pentium III	933/133	128MB	10GB	CD-ROM	GMCH	10/100 Accton	810E	Windows 2000	Feb 2001
A20	6269-V3U	White	3x4	Pentium III	1.0GHz ¹ /133	128MB	10GB	CD-ROM	GMCH	10/100 Accton	810E	Windows 2000	Feb 2001
A20	6269-S4U	White	3x4	Pentium III	1.0GHz/133	128MB	30GB	CD-RW	GMCH	10/100 Accton	810E	Windows 2000, SB	Apr 2001

Processor	Intel® Celeron™ 700, 733, or 766MHz¹ with 66MHz FSB or Intel Pentium III 866 or 933MHz or 1.0GHz with 133MHz Front Side Bus	Desktop 6269 Slot 1: 8 inch max, 32-bit PCI 2.2 (5v) - ethernet adapter Slot 2: 8 inch max, 32-bit PCI 2.2 (5v) Slot 3: 8 inch max, 32-bit PCI 2.2 (5v) Bay ① 5.25", HH 1.6", access, standard CD-ROM Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk
Implementation	Processor and L2 cache in Flip-Chip Pin Grid Array(FC-PGA) in PGA370 socket	
L2 cache	<i>Celeron:</i> 128KB std and max / ECC / full speed <i>Pentium III:</i> 256KB std and max / ECC / full speed	 <ul style="list-style-type: none"> • Pearl white color • Bay 1 and 2 in cage flips up • Bay 3 and 4 in cage flips up
Memory - std/max Memory - sockets Memory - type	64MB or 128MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz	
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0a • System Management BIOS • DMI 2.0-compliant • RPL and DHCP support
Graphics - controller	AGP 2X-class graphics / Direct AGP / in 82810 Graphics Memory Controller Hub (GMCH) / 0MB std and max display cache / Dynamic Video Memory Technology (DVMT) uses main memory / 2D and 3D hardware acceleration / VESA DPMS, DDC1/DDC2B / 15-pin D-shell analog connector on back	
Disk	ATA-66, SMART ³ III	
Disk controller	Enhanced IDE / ATA-66 / integrated into I/O Controller Hub (ICH)	
Diskette drive	3.5: 1.44MB diskette drive	<ul style="list-style-type: none"> • Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) • U-bolt anchoring feature • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control
CD-ROM	<i>Some models:</i> 48X-20X ⁴ CD-ROM / bootable	
CD-RW	<i>Some models:</i> 8X-4X-32X ⁴ CD-RW / bootable	SECURITY
Architecture	Accelerated Hub Architecture / 266MB/sec I/O channel	
Chip set	Intel 810E³ chip set / 82810 Graphics Memory Controller Hub (GMCH) / 82801 I/O Controller Hub (ICH) for PCI 2.2 bus at 32-bit 33MHz, ATA-66 EIDE, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond 83627HF Super I/O for diskette, parallel, serial, keyboard, mouse	<ul style="list-style-type: none"> • 3 year parts / 1 year labor warranty • International Warranty Service⁹ • 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time • 2nd/3rd year: parts exchange only, call 1-800-772-2227 • 3 year on site warranty service upgrade options: <ul style="list-style-type: none"> • Next day response, Mon-Fri 8-5⁷ • 4 hour response, 7 day x 24 hr⁷ • Post warranty maintenance services available • 24 hour x 7 day telephone, electronic, and Internet support
Ports	<i>Back:</i> Two serial, one parallel, two USB (Version 1.1), keyboard, mouse	
Audio	Integrated digital audio / software-based audio (done by processor and 810E) / AC '97 interface / ADI 1881 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)	
Audio connectors	<i>Back:</i> microphone jack, line-in, line-out, MIDI/game port	
Speakers	None / requires powered speakers	
Modem	None standard	
Ethernet controller	10/100 ethernet / Accton 32-bit PCI adapter / full duplex / part number 19K4310	
Systems mgmt cntrl	None / no support for monitoring of voltages or temperatures	
Keyboard / mouse	104 key (rubber dome) keyboard / IBM 2-button mouse	
Power supply	155 watts with variable speed fan / universal / manual switch	

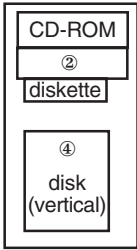
Preload with Windows Me ⁵	Options
Microsoft® Windows® Millennium Edition	64MB SDRAM 133MHz NP DIMM 33L3071
• <i>Model SAU: Microsoft Office 2000 Small Business is preinstalled</i> (Word, Excel, Outlook, Publisher, Small Business Tools)	128MB SDRAM 133MHz NP DIMM 33L3073
- Lotus SmartSuite license ⁶	256MB SDRAM 133MHz NP DIMM 33L3075
- Lotus Notes® Client 5.0 license ⁶	Rapid Access™ Keyboard II (p wht) 33L3154
- Disk-to-Disk Recovery (in Service Partition)	Rapid Access™ Keyboard II (black) 33L3174
◇ Software Selections CD-ROM	10.1GB IDE Disk ATA-66(Value) 00N8202
◇ <i>Model SAU: Microsoft Office Small Business CD-ROM</i>	15GB IDE Disk ATA-100 (Value) 19K4463
	Zip Drive 250MB 00N8078
	8X/4X/32X ⁴ CD-RW (pearl white) 33L5019
	48X-20X ⁴ IDE CD-ROM (pearl white) 33L5001
	8X/32X max DVD-ROM (pearl white) 33L5015
	DVD MPEG-2 Decoder Card 33L5009
	10/100 Accton® ethernet PCI adaptor 19K4310
	TR5 IDE Tape Drive 20L0549
	TR5 SCSI Tape Drive 01K1319
	USB External Zip 00N9911
	56K Data/Fax PCI modem 33L4618
	ADSL / V.90 Combo PCI low profile 19K4160
	V.90 Modem PCI low profile 19K4162
Preload with Windows 2000⁵	
Microsoft® Windows® 2000 Professional	
• <i>Model SAU: Microsoft Office 2000 Small Business is preinstalled</i>	
- Lotus® SmartSuite® license ⁶	
- Lotus Notes® Client 5.0 license ⁶	
- Disk-to-Disk Recovery (Windows NT 4.0 or Windows 2000)	
◇ Software Selections CD-ROM	
◇ <i>Model SAU: Microsoft Office Small Business CD-ROM</i>	

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US models announced January 30, 2001 or March 20, 2001
 US models withdrawn from marketing effective May 2001 or November 2001

No warranties are expressed or implied in this summary
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IBM® NetVista™ A20 (6270) - withdrawn

Name	Type-model	Color	Slot/bay	Processor	MHz ¹	Memory	Disk	CD-ROM	Graphics	Ethernet	Chip	Preload	Avail
A20	6270-D2U	Black	3x4	Celeron™	566/66	64MB 10GB ²	None	GMCH	None	None	810E	Windows® 98 SE ⁵	Sep 00
A20	6270-E2U	Black	3x4	Celeron	633/66	64MB 10GB	None	GMCH	None	None	810E	Windows 98 SE	Sep 00
A20	6270-E3U	Black	3x4	Celeron	633/66	64MB 10GB	48X-20X ⁴	GMCH	10/100 EtherJet™	None	810E	Windows 98 SE	Sep 00
A20	6270-E4U	Black	3x4	Celeron	633/66	128MB 10GB	None	GMCH	10/100 EtherJet	None	810E	Windows 2000	Sep 00
A20	6270-F2U	Black	3x4	Celeron	667/66	64MB 10GB ²	48X-20X	GMCH	10/100 Accton®	None	810E	Windows 98 SE	Nov 00
A20	6270-F5U	Black	3x4	Celeron	667/66	128MB 10GB	None	GMCH	10/100 EtherJet	None	810E	Windows 2000	Nov 00
A20	6270-H2U	Black	3x4	Celeron	733/66	64MB 10GB	48X-20X	GMCH	10/100 Accton	None	810E	Windows 98 SE	Nov 00
A20	6270-H7U	Black	3x4	Celeron	733/66	128MB 10GB	None	GMCH	10/100 EtherJet	None	810E	Windows 2000	Nov 00
A20	6270-M2U	Black	3x4	Pentium® III	733/133	64MB 10GB	None	GMCH	10/100 Accton	None	810E	Windows 98 SE	Sep 00
A20	6270-M4U	Black	3x4	Pentium III	733/133	128MB 10GB	None	GMCH	10/100 EtherJet	None	810E	Windows 2000	Sep 00
A20	6270-N2U	Black	3x4	Pentium III	800/133	64MB 10GB	None	GMCH	10/100 Accton	None	810E	Windows 98 SE	Sep 00
A20	6270-N3U	Black	3x4	Pentium III	800/133	64MB 10GB	48X-20X	GMCH	10/100 EtherJet	None	810E	Windows 98 SE	Sep 00
A20	6270-N4U	Black	3x4	Pentium III	800/133	128MB 10GB	None	GMCH	10/100 EtherJet	None	810E	Windows 2000	Sep 00
A20	6270-P2U	Black	3x4	Pentium III	866/133	64MB 10GB	48X-20X	GMCH	10/100 Accton	None	810E	Windows 98 SE	Nov 00
A20	6270-P7U	Black	3x4	Pentium III	866/133	128MB 10GB	None	GMCH	10/100 34L1101	None	810E	Windows 2000	Nov 00

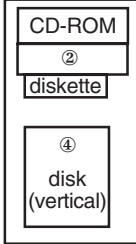
Processor	Intel® Celeron 566, 633, 667, or 733MHz ¹ with 66MHz FSBus or Intel Pentium III 733, 800EB, or 866MHz with 133MHz FSBus		Micro Tower Slot 1: 9 inch max, 32-bit PCI 2.2 (5v)* * ethernet adapter in some Slot 2: 9 inch max, 32-bit PCI 2.2 (5v) Slot 3: 9 inch max, 32-bit PCI 2.2 (5v) <ul style="list-style-type: none"> Swinging door on Bay 1 to 2 (does not cover Bay 1) Handle on top Black color with blue front panel Bay ① 5.25", HH 1.6", access, CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk
Implementation L2 cache	Processor and L2 cache in FC-PGA in PGA370 socket Celeron: 128KB std and max / ECC / full speed Pentium III: 256KB std and max / ECC / full speed		
Memory - std/max	64MB or 128MB std / 512MB max	SECURITY <ul style="list-style-type: none"> Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) U-bolt anchoring feature Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control 	
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used		
Memory - type	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 99-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0a System Management BIOS DMI 2.0-compliant RPL and DHCP support via optional ethernet adapter 	
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card		
Graphics - controller	SVGA / Direct AGP / in 810E Graphics Memory Controller Hub (GMCH) / 0MB std and max / 15-pin analog D-sub connector / DVMT; uses main memory with no display cache	6270 Dimensions - 7.64"W X 15.0"D X 15.0"H - 194mm W X 381mm D X 381mm H - 18.25 to 22.5 lb (8.4 to 10.3 kg)	
Disk	ATA-66, SMART ³ III		
Disk controller	Enhanced IDE / ATA-66 / integrated into I/O Controller Hub (ICH)	LIMITED WARRANTY⁹ ⇨ 3 year parts / 1 year labor warranty ⇨ International Warranty Service ⁹ ⇨ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ⇨ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ⇨ 3 year on site options available: • Next day response ⁷ , Mon-Fri 8-5 • 4 hour response ⁷ , 7 day x 24 hr ⇨ Post warranty maintenance services available ⇨ IBM SystemXtra ^{®16} ⇨ 24 hour x 7 day telephone, electronic, and Internet support	
Diskette drive	3.5: 1.44MB diskette drive		
CD-ROM	48X-20X ⁴ CD-ROM / bootable		
Architecture	Accelerated Hub Architecture / 266MB/sec I/O channel		
Chip set	Intel 810E ⁵ chip set / 82810 Graphics Memory Controller Hub (GMCH) / 82801 I/O Controller Hub (ICH) for PCI 2.2 bus at 32-bit 33MHz, ATA-66 EIDE, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond 83627HF Super I/O for diskette, parallel, serial, keyboard, mouse		
Ports	Back: One serial, one parallel, two USB (Version 1.1), keyboard, mouse		
Audio	Integrated digital audio / software-based audio (done by processor and 810E) / AC '97 interface / ADI 1881 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)		
Audio connectors	Back: microphone jack, line-in, line-out		
Speakers	None / requires powered speakers		
Ethernet controller	Some models: IBM 10/100 EtherJet™ PCI Management Adapter / 82559 / 10BaseT and 100BaseTX / RJ45 / Wake on LAN [®] / part number 34L1201 Some models: IBM 10/100 EtherJet™ PCI Adapter with Alert on LAN 2 (system does not support Alert on LAN) / 82559 / RJ45 / part number 34L1101 Some models: 10/100 ethernet / Accton 32-bit PCI adapter / full duplex / part number 19K4310		
Keyboard / mouse	104 key (rubber dome) keyboard / IBM 2-button mouse		
Power supply	155 watts with variable speed fan / universal / manual switch		
Preload with Windows 98⁵	Options		
Microsoft® Windows® 98 Second Edition	64MB SDRAM 133MHz NP DIMM	33L3071	
- Lotus SmartSuite license ⁶	128MB SDRAM 133MHz NP DIMM	33L3073	
- Lotus Notes® Client 5.0 license ⁶	256MB SDRAM 133MHz NP DIMM	33L3075	
- Disk-to-Disk Recovery (in Service Partition)	Rapid Access™ Keyboard II (black)	33L3174	
◇ Software Selections CD-ROM	10.1GB IDE Disk ATA-66(Value)	00N8202	
	15GB IDE Disk ATA-100 (Value)	19K4463	
	Zip Drive 100MB (white)	20L0544	
	Zip Drive 250MB (white/black)	00N8078	
Preload with Windows 2000⁵	5.25 to 3.5 DASD Bay Conversion K	70G8165	
Microsoft® Windows® 2000 Professional	8X/4X/32X CD-RW Internal (black)	33L5020	
- Lotus® SmartSuite® license ⁶	48X-20X ⁴ IDE CD-ROM (white)	33L5001	
- Lotus Notes® Client 5.0 license ⁶	8X DVD-ROM Internal IDE (black)	33L5016	
- Disk-to-Disk Recovery (Windows NT 4.0 or Windows 2000)	DVD MPEG-2 Decoder Card	33L5009	
◇ Software Selections CD-ROM	10/100 Accton® ethernet PCI adapttr	19K4301	
	56K Data/Fax PCI modem	33L4618	
	ADSL / V.90 Combo PCI low profile	19K4160	
	V.90 ¹⁰ Modem PCI low profile	19K4162	
	10/20GB TR5 IDE Tape Drive (w/blk)	20L0549	

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 US models announced September 12 or November 14, 2000
 Models withdrawn from marketing effective March 2001 or May 2001

No warranties are expressed or implied in this summary
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IBM® NetVista™ A20 (6270) - Winter 2001 - withdrawn

Name	Type-model	Color	Slotxbay	Processor	MHz ¹	Memory	Disk	CD-ROM	Graphics	Ethernet	Chip	Preload	Available
A20	6270-HHU	Black	3x4	Celeron™	766/66	128MB	20GB ²	48X-20X ⁴	GMCH	10/100 Accton	810E	Windows® Me ⁵	Feb 2001
A20	6270-HSU	Black	3x4	Celeron	800/100	128MB	20GB	48X-20X	GMCH	10/100 Accton	810E	Windows 2000	May 2001
A20	6270-PHU	Black	3x4	Pentium® III	933/133	128MB	20GB	48X-20X	GMCH	10/100 EtherJet™	810E	Windows 2000	Feb 2001
A20	6270-Q9U	Black	3x4	Pentium III	1.0GHz ¹ /133	128MB	20GB	48X-20X	GMCH	10/100 EtherJet	810E	Windows 2000	Feb 2001

Processor	Intel® Celeron 766MHz¹ with 66MHz Front Side Bus or Intel Celeron 800MHz with 100MHz Front Side Bus or Intel Pentium III 933MHz or 1GHz with 133MHz Front Side Bus	Micro Tower Black 	Bay ① 5.25", HH 1.6", access, CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk
Implementation	Processor and L2 cache in FC-PGA in PGA370 socket		Slot 1: 9 inch max, 32-bit PCI 2.2 (5v)* * ethernet adapter Slot 2: 9 inch max, 32-bit PCI 2.2 (5v) Slot 3: 9 inch max, 32-bit PCI 2.2 (5v)
L2 cache	Celeron: 128KB std and max / ECC / full speed Pentium III: 256KB std and max / ECC / full speed		<ul style="list-style-type: none"> Swinging door on Bays 1 and 2 Handle on top 7.64" W X 15.0" D X 15.0" H 194mm W X 381mm D X 381mm H 18.25 to 22.5 lb (8.4 to 10.3 kg)
Memory - std/max	128MB std / 512MB max		
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used		
Memory - type	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz		
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card		
Graphics - controller	SVGA / Direct AGP / in 810E Graphics Memory Controller Hub (GMCH) / OMB std and max / 15-pin analog D-sub connector / DVMT; uses main memory with no display cache		

Disk	ATA-66, SMART ³ III	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 99-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0a System Management BIOS DMI 2.0-compliant RPL and DHCP support via optional ethernet adapter
Disk controller	Enhanced IDE / ATA-66 / integrated into I/O Controller Hub (ICH)	
Diskette drive	3.5: 1.44MB diskette drive	
CD-ROM	48X-20X ⁴ CD-ROM / bootable	
Architecture	Accelerated Hub Architecture / 266MB/sec I/O channel	SECURITY <ul style="list-style-type: none"> Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) U-bolt anchoring feature Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control
Chip set	Intel 810E⁸ chip set / 82810 Graphics Memory Controller Hub (GMCH) / 82801 I/O Controller Hub (ICH) for PCI 2.2 bus at 32-bit 33MHz, ATA-66 EIDE, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond 83627HF Super I/O for diskette, parallel, serial, keyboard, mouse	
Ports	<i>Back</i> : Two serial, one parallel, two USB (Version 1.1), keyboard, mouse	
Audio	Integrated digital audio / software-based audio (done by processor and 810E) / AC '97 interface / ADI 1881 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)	
Audio connectors	<i>Back</i> : microphone jack, line-in, line-out	
Speakers	None / requires powered speakers	
Ethernet controller	<i>Some models</i> : IBM 10/100 EtherJet™ PCI Management Adapter / 82559 / 10BaseT and 100BaseTX / RJ45 / Wake on LAN® / part number 34L1201 <i>Some models</i> : 10/100 ethernet / Accton 32-bit PCI adapter / full duplex / part number 19K4310	
Keyboard / mouse	104 key (rubber dome) keyboard / IBM 2-button mouse	
Power supply	155 watts with variable speed fan / universal / manual switch	

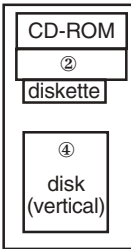
Preload with Windows Me⁵ Microsoft® Windows® Millennium Edition - Lotus SmartSuite license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (in Service Partition) ✦ Software Selections CD-ROM	Options 64MB SDRAM 133MHz NP DIMM 33L3071 128MB SDRAM 133MHz NP DIMM 33L3073 256MB SDRAM 133MHz NP DIMM 33L3075 Rapid Access™ Keyboard II (black) 33L3174 10.1GB IDE Disk ATA-66(Value) 00N8202 15GB IDE Disk ATA-100 (Value) 19K4463 Zip Drive 100MB (white) 20L0544 Zip Drive 250MB (white/black) 00N8078 5.25 to 3.5 DASD Bay Conversion K 70G8165 8X/4X/32X CD-RW Internal (black) 33L5020 48X-20X ⁴ IDE CD-ROM (white) 33L5001 8X DVD-ROM Internal IDE (black) 33L5016 DVD MPEG-2 Decoder Card 33L5009 10/100 Accton® ethernet PCI adaptr 19K4301 56K Data/Fax PCI modem 33L4618 ADSL / V.90 Combo PCI low profile 19K4160 V.90 ¹⁰ Modem PCI low profile 19K4162 10/20GB TR5 IDE Tape Drive (w/blk) 20L0549	LIMITED WARRANTY*⁹ ⇨ 3 year parts / 1 year labor warranty ⇨ International Warranty Service⁹ ⇨ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ⇨ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ⇨ 3 year on site warranty service upgrade options: <ul style="list-style-type: none"> • Next day response, Mon-Fri 8-5⁷ • 4 hour response, 7 day x 24 hr⁷ ⇨ Post warranty maintenance services available ⇨ 24 hour x 7 day telephone, electronic, and Internet support
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* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US models announced September 12, 2000, November 14, 2000, or May 8, 2001
 US models withdrawn effective November 2001

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IBM® NetVista™ A20 for small business (6270) - withdrawn

Name	Type-model	Color	Slotxbay	Processor	MHz ¹	Memory	Disk	CD	Graphics	Ethernet	Modem	Chip	Preload	Available
A20	6270-S2U	Black	3x4	Celeron™	566/66	128MB	20GB ²	48X-20X ⁴	GMCH	None	Modem	810E	2000	Sep 2000
A20	6270-SDU	Black	3x4	Celeron	566/66	128MB	20GB	48X-20X	GMCH	None	Modem	810E	Millennium	Sep 2000
A20	6270-S4U	Black	3x4	Celeron	633/66	128MB	20GB	48X-20X	GMCH	None	Modem	810E	2000	Sep 2000
A20	6270-SEU	Black	3x4	Celeron	633/66	128MB	20GB	48X-20X	GMCH	None	Modem	810E	Millennium	Sep 2000
A20	6270-S6U	Black	3x4	Celeron	700/66	64MB	20GB	48X-20X	GMCH	10/100 Accton	None	810E	Millennium	Feb 2001
A20	6270-T2U	Black	3x4	Pentium® III	733/133	128MB	20GB	48X-20X	GMCH	None	Modem	810E	2000	Sep 2000
A20	6270-T3U	Black	3x4	Pentium III	733/133	128MB	10GB	48X-20X	GMCH	10/100 Accton	None	810E	2000	Sep 2000
A20	6270-TDU	Black	3x4	Pentium III	733/133	128MB	20GB	48X-20X	GMCH	None	Modem	810E	Millennium	Sep 2000
A20	6270-T4U	Black	3x4	Pentium III	800/133	128MB	20GB	48X-20X	GMCH	None	Modem	810E	2000	Sep 2000
A20	6270-T5U	Black	3x4	Pentium III	800/133	128MB	10GB	48X-20X	GMCH	10/100 Accton	None	810E	2000	Sep 2000
A20	6270-TEU	Black	3x4	Pentium III	800/133	128MB	20GB	48X-20X	GMCH	None	Modem	810E	Millennium	Sep 2000
A20	6270-T7U	Black	3x4	Pentium III	933/133	128MB	30GB	CD-RW	GMCH	10/100 Accton	None	810E	2000	Feb 2001
A20	6270-T9U	Black	3x4	Pentium III	866/133	128MB	20GB	48X-20X	GMCH	10/100 Accton	None	810E	2000	Feb 2001

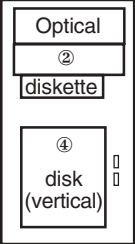
Processor	Intel® Celeron™ 566, 633, or 700MHz¹ with 66MHz FS Bus or Intel Pentium III 733, 800EB, 866, or 933MHz with 133MHz Front Side Bus	Micro Tower 	Slot 1: 9 inch max, 32-bit PCI 2.2 (5v)* * ethernet adapter in some
Implementation L2 cache	Processor and L2 cache in FC-PGA in PGA370 socket <i>Celeron:</i> 128KB std and max / ECC / full speed <i>Pentium III:</i> 256KB std and max / ECC / full speed		Slot 2: 9 inch max, 32-bit PCI 2.2 (5v) Slot 3: 9 inch max, 32-bit PCI 2.2 (5v)
Memory - std/max Memory - sockets Memory - type	64MB or 128MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz		<ul style="list-style-type: none"> Swinging door on Bay 1 to 2 (does not cover Bay 1) Handle on top Black color with blue panel
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card		Bay ① 5.25", HH 1.6", access, CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk
Graphics - controller	SVGA / Direct AGP / in 810E Graphics Memory Controller Hub (GMCH) / 0MB std and max / 15-pin analog D-sub connector / (DVMT) uses main memory with no display cache		
Disk Disk controller Diskette drive CD-ROM CD-RW	ATA-66, SMART ³ III Enhanced IDE / ATA-66 / integrated into I/O Controller Hub (ICH) 3.5: 1.44MB diskette drive <i>Some models:</i> 48X-20X ⁴ CD-ROM / bootable <i>Some models:</i> 8X-4X-32X ⁴ CD-RW / bootable		SECURITY <ul style="list-style-type: none"> Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) U-bolt anchoring feature Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control
Architecture Chip set	Accelerated Hub Architecture / 266MB/sec I/O channel Intel 810E⁵ chip set / 82810 Graphics Memory Controller Hub (GMCH) / 82801 I/O Controller Hub (ICH) for PCI 2.2 bus at 32-bit 33MHz, ATA-66 EIDE, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond 83627HF Super I/O for diskette, parallel, serial, keyboard, mouse		
Ports	<i>Back:</i> One or two serial (two serial on models S6U, T7U, T9U), one parallel, two USB (Version 1.1), keyboard, mouse		SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 99-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0a System Management BIOS DMI 2.0-compliant RPL and DHCP support via optional ethernet adapter
Audio	Integrated digital audio / software-based audio (done by processor and 810E) / AC '97 interface / ADI 1881 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)		
Audio connectors Speakers	<i>Back:</i> microphone jack, line-in, line-out None / requires powered speakers		
Ethernet controller	<i>Some models:</i> 10/100 ethernet / Accton® 32-bit PCI adapter / full duplex / part number 19K4310		
Modem	<i>Some models:</i> 56K V.90 PCI modem		
Keyboard / mouse Power supply	104-key keyboard / IBM ScrollPoint™ II mouse 155 watts with variable speed fan / universal / manual switch		6270 Dimensions - 7.64"W X 15.0"D X 15.0"H - 194mm W X 381mm D X 381mm H - 18.25 to 22.5 lb (8.4 to 10.3 kg)

Windows Millennium Preload⁶ Microsoft® Windows Millennium Edition • Microsoft Office 2000 Small Business is preinstalled (Word, Excel, Outlook, Publisher, Small Business Tools) - Lotus® SmartSuite® license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (in Service Partition) ♦ Software Selections CD-ROM	Options 64MB SDRAM 133MHz NP DIMM 33L3071 128MB SDRAM 133MHz NP DIMM 33L3073 256MB SDRAM 133MHz NP DIMM 33L3075 Rapid Access™ Keyboard II (p wht) 33L3154 Rapid Access™ Keyboard II (black) 33L3174 10.1GB IDE Disk ATA-66(Value) 00N8202 15GB IDE Disk ATA-100 (Value) 19K4463 Zip Drive 100MB (white) 20L0544 Zip Drive 250MB (white/black) 00N8078 5.25 to 3.5 DASH Bay Conversion K 70G8165 8X/4X/32X CD-RW Internal (black) 33L5020 48X-20X ⁴ IDE CD-ROM (white) 33L5001 8X DVD-ROM Internal IDE (black) 33L5016 DVD MPEG-2 Decoder Card 33L5009 10/100 Accton® ethernet PCI adaptor 19K4301 56K ¹⁰ Data/Fax PCI modem 33L4618 ADSL / V.90 Combo PCI low profile 19K4160 V.90 Modem PCI low profile 19K4162 10/20GB TR5 IDE Tape Drive (w/blk) 20L0549	LIMITED WARRANTY^{4,9} ⇨ 3 year parts / 1 year labor warranty ⇨ International Warranty Service⁹ ⇨ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ⇨ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ⇨ On site warranty upgrade options: • Next day response ⁷ , Mon-Fri 8-5 • 4 hour response ⁷ , 7 day x 24 hr ⇨ Post warranty: on site options above ⇨ IBM SystemXtra^{®16} ⇨ 24 hour x 7 day telephone, electronic, and Internet support
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US models announced September 12, 2000 or January 30, 2001
 US models withdrawn effective March 2001 or May 2001 or September 2001

No warranties are expressed or implied in this summary
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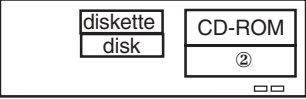
Name	Type-model	Color	Slotx/bay	Processor	GHz ¹	Memory ⁸	Disk	Optical	Diskette	Graphics	Ethernet	Modem	Preload	Available
IBM Odyssey Direct models														
A21i	2254-G05	Black	3x4	Celeron™	1.0GHz	128MB	20GB ²	CD-ROM	Diskette	GMCH	10/100	Modem	Windows® Me ⁵	Sep 2001
A21i	2254-G06	Black	3x4	Celeron	1.0GHz	128MB	40GB	CD-RW	Diskette	GMCH	10/100	Modem	Windows Me	Sep 2001

Positioning Processor Implementation L2 cache	<i>Powerful, proven technology for performance on a budget</i> Intel® Celeron 1GHz¹ with 100MHz Front Side Bus Processor and L2 cache in FC-PGA in PGA370 socket 128KB std and max / ECC / full speed	Micro Tower Bay ① 5.25", HH 1.6", access, Optical Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk	
Memory - std/max Memory - sockets Memory - type	128MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz	Slot 1: 9 inch max, 32-bit PCI 2.2 (5v) Slot 2: 9 inch max, 32-bit PCI 2.2 (5v) - used by modem Slot 3: 9 inch max, 32-bit PCI 2.2 (5v)	
Graphics - type Graphics - controller	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card SVGA / Direct AGP / in 810E Graphics Memory Controller Hub (GMCH) / 0MB std and max / 15-pin analog D-sub connector / DVMT; uses up to 11MB main memory with no display cache	<ul style="list-style-type: none"> Stealth black color Swinging door on Bay 1, 2, and 3 (does not cover Bay 1) Slide out disk Handle on top 7.6" W X 15.0" D X 15.0" H 194mm W X 381mm D X 381mm H 18.3 to 22.5 lb (8.3 to 10.3 kg) 	
Disk Disk controller Diskette drive CD-ROM CD-RW	ATA-100, value, SMART ³ III Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2) 3.5" 1.44MB diskette drive <i>Some models:</i> 48X-20X ⁴ CD-ROM / bootable <i>Some models:</i> 16X-10X-40X ⁴ CD-RW / bootable		
Architecture Chip set	Accelerated Hub Architecture / 266MB/sec I/O channel Intel 810E2 chipset / 82810E Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond® 83627F Super I/O for diskette, parallel, serial, keyboard, mouse		SYSTEMS MANAGEMENT
Ports	<i>Front:</i> two USB (Version 1.1) <i>Back:</i> two serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor		<ul style="list-style-type: none"> PC 99-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b System Management BIOS DMI 2.0-compliant Wired for Management 2.0-compliant
Audio Audio connectors Speakers	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion) <i>Back:</i> microphone jack, line-in, line-out Ext active speakers / 2-piece / 1.5 watts / 200Hz - 17kHz freq resp / black color		SECURITY
Ethernet Modem	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / Wake on LAN® 56K¹⁰ data/fax modem / Conexant® chipset / controllerless HCF modem / PCI adapter		<ul style="list-style-type: none"> Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) U bolt anchoring feature Padlock support (user supplied lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control
Keyboard / mouse Power supply	IBM Rapid Access™ IIIe Keyboard (USB / no USB hub or ports) / IBM ScrollPoint® III mouse (USB) 155 watts with variable speed fan / universal / manual switch		
Preload with Windows Millennium (Me)⁵ Microsoft® Windows® Millennium Edition Lotus® SmartSuite® license ⁶ Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (in Service Partition) ◇ Software Selections CD-ROM - Microsoft Works Suite 2001 (Word 2000, Works 6.0, Encarta® Encyclopedia Standard 2001, Money 2001, Picture It!® Publishing 2001, Streets & Trips 2001, Outlook® Express)	Options 64MB SDRAM 133MHz NP DIMM 33L3071 128MB SDRAM 133MHz NP DIMM 33L3073 256MB SDRAM 133MHz NP DIMM 33L3075 2-Piece Speakers (black) 33L3440 3-Piece Speakers (black) 33L3441 40GB IDE Disk ATA-100 (5400 rpm) 22P7156 Zip Drive 250MB (white/black) 00N8078 5.25 to 3.5 DASD Bay Conversion Kit 70G8165 12X/8X/32X ⁴ max CD-RW Internal (blk) 10K3785 48X-20X ⁴ IDE CD-ROM (black) 10K3782 8X/4X/32X/8X ⁴ max CD-RW/DVD-ROM Combo Drive (black) 10K3790 16MB NVIDIA™ Vanta LP PCI Card 33L3443 56K V.90 Data/Fax PCI modem ¹⁰ 33L4618 V.90 ¹⁹ Modem PCI low profile 19K4162 IBM E94 19" (18.0" v.i.s.) Monitor (blk) 633440N IBM T540 15" Flat Panel Monitor (black) 9511AG4 IBM E74M 17" (15.9" v.i.s.) Monitor (blk) 651767N IBM Wireless keyboard and mouse (blk) 22P5170 IBM Rapid Access™ III Kybd USB (black) 22P5185 1394 PCI Adapter (dual bracket) 19K5790		LIMITED WARRANTY*⁹
			<ul style="list-style-type: none"> ↔ 1 year parts and labor ↔ On site, 8 am - 5 pm, Mon - Fri, 2nd business day response time ↔ On site warranty service upgrade options⁷: <ul style="list-style-type: none"> 1 year 9x5 4 hour response (ServicePac® part number 54P1858) 2 year 9x5 Next Business Day (ServicePac part number 54P1859) 2 year 9x5 4 hour response (ServicePac part number 54P1860) 3 year 9x5 Next Business Day (ServicePac part number 54P1861) 3 year 9x5 4 hour response (ServicePac part number 54P1862) ↔ 24 hour x 7 day¹⁴ telephone, electronic, and Internet support

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
US models announced September 18, 2001
US models withdrawn effective April 2002

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Name	Type-model	Color	Slotx/bay	Processor	Speed	Mem ⁸	Disk	CD-ROM	Diskette	Graphics	Ethernet	Chipset	Preload	Available
IBM Odyssey Direct models														
A21	6336-G03	White	3x4	Celeron™	1.0GHz ¹	128MB	20GB ²	48X-20X ⁴	Diskette	GMCH	10/100	810E2	Windows® 2000 ⁵	Sep 2001
A21	6336-G04	White	3x4	Celeron	1.0GHz	64MB	20GB	48X-20X	Diskette	GMCH	10/100	810E2	Windows 98 SE	Sep 2001

Positioning Processor	<i>Leading-edge technologies and affordable prices</i> Intel® Celeron 1.0GHz¹ with 100MHz Front Side Bus		Desktop	
Implementation L2 cache	Processor and L2 cache in FC-PGA in PGA370 socket 128KB std and max / ECC / full speed		Bay ① 5.25", HH 1.6", access, std CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk	
Memory - std/max Memory - sockets Memory - type	64 or 128MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz		Slot 1: 8 inch max, 32-bit PCI 2.2 (5v) Slot 2: 8 inch max, 32-bit PCI 2.2 (5v) Slot 3: 8 inch max, 32-bit PCI 2.2 (5v)	
Graphics - type Graphics - controller	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card SVGA / Direct AGP / in 810E Graphics Memory Controller Hub (GMCH) / OMB std and max / 15-pin analog D-sub connector / DVMT; uses up to 11MB main memory with no display cache		• Pearl white color • 16.7" W X 16.7"D X 5.5"H • 425mm W X 425mm D X 140mm H • 21 to 25 lb (9.6 to 11.4 kg) • Bay 1 and 2 in cage flips up • Bay 3 and 4 in cage flips up • Tool-less cover removal • Tool-less PCI slots	
Disk Disk controller Diskette drive CD-ROM	ATA-100, value, SMART ³ III Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2) 3.5" 1.44MB diskette drive 48X/20X ⁴ CD-ROM / bootable			
Architecture Chip set	Accelerated Hub Architecture / 266MB/sec I/O channel Intel 810E2 chipset / 82810E Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond® 83627F Super I/O for diskette, parallel, serial, keyboard, mouse			SYSTEMS MANAGEMENT • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0b • System Management BIOS • DMI 2.0-compliant • Wired for Management 2.0-compliant
Ports	<i>Front:</i> two USB (Version 1.1) <i>Back:</i> two serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor			
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)			SECURITY • Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) • U bolt anchoring feature • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control
Audio connectors Speakers	<i>Back:</i> microphone jack, line-in, line-out None / requires optional powered speakers			
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / Wake on LAN®			
Keyboard / mouse Power supply	106-key (rubber dome) keyboard / IBM 2-button mouse 155 watts with variable speed fan / universal / manual switch			
Preload with Windows 98SE⁵	Options			
Microsoft® Windows® 98 Second Edition	64MB SDRAM 133MHz NP DIMM	33L3071		
Lotus® SmartSuite® license ⁶	128MB SDRAM 133MHz NP DIMM	33L3073		
Lotus Notes® Client 5.0 license ⁶	256MB SDRAM 133MHz NP DIMM	33L3075		
- Disk-to-Disk Recovery (in Service Partition)	2-Piece Speakers (black)	33L3440		
❖ Software Selections CD-ROM	3-Piece Speakers (black)	33L3441		
	40GB IDE Disk ATA-100 (5400 rpm)	22P7156		
	Zip Drive 250MB (white/black)	00N8078		
	5.25 to 3.5 DASD Bay Conversion Kit	70G8165		
	12X/8X/32X ⁴ max CD-RW Internal (wht)	10K3784		
	8X/4X/32X ⁴ max CD-RW Internal (wht)	33L5019		
	48X/20X ⁴ IDE CD-ROM (white)	33L5001		
	8X/4X/32X/8X ⁴ max CD-RW/DVD-ROM Combo Drive (black)	10K3790		
	16MB NVIDIA™ Vanta LP PCI Card	33L3443		
	56K V.90 Data/Fax PCI modem ¹⁰	33L4618		
	V.90 ¹⁰ Modem PCI low profile	19K4162		
	IBM E94 19" (18.0" v.i.s.) Monitor (wht)	633400N		
	IBM T540 15" Flat Panel Monitor (white)	9511AW4		
	IBM E74M 17" (15.9" v.i.s.) Monitor (wht)	651707N		
	IBM Wireless keyboard and mouse (blk)	22P5170		
	IBM Rapid Access™ III Kybd USB (wht)	22P5206		
Preload with Windows 2000⁵				
Microsoft Windows 2000 Professional				
Lotus SmartSuite license ⁶				
Lotus Notes Client 5.0 license ⁶				
- Disk-to-Disk Recovery (in Service Partition)				
❖ Software Selections CD-ROM				
				LIMITED WARRANTY*⁹
				⇒ 1 year parts and labor
				⇒ On site, 8 am - 5 pm, Mon - Fri, 2nd business day response time
				⇒ On site warranty service upgrade options⁷:
				• 1 year 9x5 4 hour response (ServicePac® part number 54P1858)
				• 2 year 9x5 Next Business Day (ServicePac part number 54P1859)
				• 2 year 9x5 4 hour response (ServicePac part number 54P1860)
				• 3 year 9x5 Next Business Day (ServicePac part number 54P1861)
				• 3 year 9x5 4 hour response (ServicePac part number 54P1862)
				⇒ 24 hour x 7 day¹⁴ telephone, electronic, and Internet support

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Name	Type-model	Color	Slot x bay	Processor	GHz ¹	Memory ⁸	Disk	Optical	Graphics	Ethernet	Preload	Small Business Software	Available date
IBM Odyssey Direct models													
A21	6337-G03	Black	3x4	Celeron™	1.0GHz	128MB	20GB ²	CD-ROM	GMCH	10/100	Windows® 2000 ⁵	XP Office SB ²⁸	Sep 2001
A21	6337-G04	Black	3x4	Celeron	1.0GHz	128MB	40GB	CD-RW	GMCH	10/100	Windows 2000	XP Office SB	Sep 2001
A21	6337-G05	Black	3x4	Celeron	1.0GHz	128MB	20GB	CD-ROM	GMCH	10/100	Windows Me		Sep 2001

Positioning Processor	<i>Leading-edge technologies and affordable prices</i> Intel® Celeron 1GHz¹ with 100MHz Front Side Bus		Micro Tower Bay ① 5.25", HH 1.6", access, CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk																																							
Implementation L2 cache	Processor and L2 cache in FC-PGA in PGA370 socket 128KB std and max / ECC / full speed		Slot 1: 9 inch max, 32-bit PCI 2.2 (5v) Slot 2: 9 inch max, 32-bit PCI 2.2 (5v) Slot 3: 9 inch max, 32-bit PCI 2.2 (5v)																																							
Memory - std/max	128MB std / 512MB max		<ul style="list-style-type: none"> Stealth black color Swinging door on Bay 1, 2, and 3 (does not cover Bay 1) Slide out disk Handle on top 7.6" W X 15.0" D X 15.0" H 194mm W X 381mm D X 381mm H 18.3 to 22.5 lb (8.3 to 10.3 kg) 																																							
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used																																									
Memory - type	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz		<p align="center">SYSTEMS MANAGEMENT</p> <ul style="list-style-type: none"> PC 99-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b System Management BIOS DMI 2.0-compliant Wired for Management 2.0-compliant 																																							
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card																																									
Graphics - controller	SVGA / Direct AGP / in 810E Graphics Memory Controller Hub (GMCH) / OMB std and max / 15-pin analog D-sub connector / DVM; uses up to 11MB main memory with no display cache		<p align="center">SECURITY</p> <ul style="list-style-type: none"> Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) U bolt anchoring feature Padlock support (user supplied lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control 																																							
Disk	ATA-100, value, SMART ³ III																																									
Disk controller	Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2)		<p align="center">LIMITED WARRANTY*⁹</p> <p>↔ 1 year parts and labor</p> <p>↔ On site, 8 am - 5 pm, Mon - Fri, 2nd business day response time</p> <p>↔ On site warranty service upgrade options⁷:</p> <ul style="list-style-type: none"> 1 year 9x5 4 hour response (ServicePac® part number 54P1858) 2 year 9x5 Next Business Day (ServicePac part number 54P1859) 2 year 9x5 4 hour response (ServicePac part number 54P1860) 3 year 9x5 Next Business Day (ServicePac part number 54P1861) 3 year 9x5 4 hour response (ServicePac part number 54P1862) <p>↔ 24 hour x 7 day¹⁴ telephone, electronic, and Internet support</p>																																							
Diskette drive	3.5" 1.44MB diskette drive																																									
CD-ROM	<i>Some models:</i> 48X/20X ⁴ CD-ROM / bootable																																									
CD-RW	<i>Some models:</i> 16X/10X/40X ⁴ max CD-RW / bootable		<p>Options</p> <table border="0"> <tr> <td>64MB SDRAM 133MHz NP DIMM</td> <td>33L3071</td> </tr> <tr> <td>128MB SDRAM 133MHz NP DIMM</td> <td>33L3073</td> </tr> <tr> <td>256MB SDRAM 133MHz NP DIMM</td> <td>33L3075</td> </tr> <tr> <td>2-Piece Speakers (black)</td> <td>33L3440</td> </tr> <tr> <td>3-Piece Speakers (black)</td> <td>33L3441</td> </tr> <tr> <td>40GB IDE Disk ATA-100 (5400 rpm)</td> <td>22P7156</td> </tr> <tr> <td>Zip Drive 250MB (white/black)</td> <td>00N8078</td> </tr> <tr> <td>5.25 to 3.5 DASH Bay Conversion Kit</td> <td>70G8165</td> </tr> <tr> <td>12X/8X/32X⁴ max CD-RW Internal (blk)</td> <td>10K3785</td> </tr> <tr> <td>48X/20X⁴ IDE CD-ROM (black)</td> <td>10K3782</td> </tr> <tr> <td>8X/4X/32X/8X⁴ max CD-RW/DVD-ROM Combo Drive (black)</td> <td>10K3790</td> </tr> <tr> <td>16MB NVIDIA™ Vanta LP PCI Card</td> <td>33L3443</td> </tr> <tr> <td>56K V.90 Data/Fax PCI modem¹⁰</td> <td>33L4618</td> </tr> <tr> <td>V.90¹⁰ Modem PCI low profile</td> <td>19K4162</td> </tr> <tr> <td>IBM E94 19" (18.0" v.i.s.) Monitor (blk)</td> <td>633440N</td> </tr> <tr> <td>IBM T540 15" Flat Panel Monitor (black)</td> <td>9511AG4</td> </tr> <tr> <td>IBM E74M 17" (15.9" v.i.s.) Monitor (blk)</td> <td>651767N</td> </tr> <tr> <td>IBM Wireless keyboard and mouse (blk)</td> <td>22P5170</td> </tr> <tr> <td>IBM Rapid Access™ III Kybd USB (black)</td> <td>22P5185</td> </tr> </table>		64MB SDRAM 133MHz NP DIMM	33L3071	128MB SDRAM 133MHz NP DIMM	33L3073	256MB SDRAM 133MHz NP DIMM	33L3075	2-Piece Speakers (black)	33L3440	3-Piece Speakers (black)	33L3441	40GB IDE Disk ATA-100 (5400 rpm)	22P7156	Zip Drive 250MB (white/black)	00N8078	5.25 to 3.5 DASH Bay Conversion Kit	70G8165	12X/8X/32X ⁴ max CD-RW Internal (blk)	10K3785	48X/20X ⁴ IDE CD-ROM (black)	10K3782	8X/4X/32X/8X ⁴ max CD-RW/DVD-ROM Combo Drive (black)	10K3790	16MB NVIDIA™ Vanta LP PCI Card	33L3443	56K V.90 Data/Fax PCI modem ¹⁰	33L4618	V.90 ¹⁰ Modem PCI low profile	19K4162	IBM E94 19" (18.0" v.i.s.) Monitor (blk)	633440N	IBM T540 15" Flat Panel Monitor (black)	9511AG4	IBM E74M 17" (15.9" v.i.s.) Monitor (blk)	651767N	IBM Wireless keyboard and mouse (blk)	22P5170	IBM Rapid Access™ III Kybd USB (black)	22P5185
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IBM Rapid Access™ III Kybd USB (black)	22P5185																																									
Architecture	Accelerated Hub Architecture / 266MB/sec I/O channel		<p>Preload with Windows 2000⁵</p> <p>Microsoft® Windows® 2000 Professional</p> <p>Lotus® SmartSuite® license⁶</p> <p>Lotus Notes® Client 5.0 license⁶</p> <p>- Disk-to-Disk Recovery (in Service Partition)</p> <p>◇ Software Selections CD-ROM</p> <p>- Microsoft Office XP Small Business²⁸ (Word, Excel, Outlook, Publisher, Small Business Tools)</p> <p>◇ Office XP Small Business CD-ROM</p>																																							
Chip set	Intel 810E2 chipset / 82810E Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond® 83627F Super I/O for diskette, parallel, serial, keyboard, mouse																																									
Ports	<i>Front:</i> two USB (Version 1.1) <i>Back:</i> two serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor		<p>Preload with Windows Millennium (Me)⁵</p> <p>Microsoft Windows Millennium Edition</p> <p>Lotus SmartSuite license⁶</p> <p>Lotus Notes® Client 5.0 license⁶</p> <p>- Disk-to-Disk Recovery (in Service Partition)</p> <p>◇ Software Selections CD-ROM</p>																																							
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)																																									
Audio connectors	<i>Back:</i> microphone jack, line-in, line-out		<p>Options</p> <table border="0"> <tr> <td>64MB SDRAM 133MHz NP DIMM</td> <td>33L3071</td> </tr> <tr> <td>128MB SDRAM 133MHz NP DIMM</td> <td>33L3073</td> </tr> <tr> <td>256MB SDRAM 133MHz NP DIMM</td> <td>33L3075</td> </tr> <tr> <td>2-Piece Speakers (black)</td> <td>33L3440</td> </tr> <tr> <td>3-Piece Speakers (black)</td> <td>33L3441</td> </tr> <tr> <td>40GB IDE Disk ATA-100 (5400 rpm)</td> <td>22P7156</td> </tr> <tr> <td>Zip Drive 250MB (white/black)</td> <td>00N8078</td> </tr> <tr> <td>5.25 to 3.5 DASH Bay Conversion Kit</td> <td>70G8165</td> </tr> <tr> <td>12X/8X/32X⁴ max CD-RW Internal (blk)</td> <td>10K3785</td> </tr> <tr> <td>48X/20X⁴ IDE CD-ROM (black)</td> <td>10K3782</td> </tr> <tr> <td>8X/4X/32X/8X⁴ max CD-RW/DVD-ROM Combo Drive (black)</td> <td>10K3790</td> </tr> <tr> <td>16MB NVIDIA™ Vanta LP PCI Card</td> <td>33L3443</td> </tr> <tr> <td>56K V.90 Data/Fax PCI modem¹⁰</td> <td>33L4618</td> </tr> <tr> <td>V.90¹⁰ Modem PCI low profile</td> <td>19K4162</td> </tr> <tr> <td>IBM E94 19" (18.0" v.i.s.) Monitor (blk)</td> <td>633440N</td> </tr> <tr> <td>IBM T540 15" Flat Panel Monitor (black)</td> <td>9511AG4</td> </tr> <tr> <td>IBM E74M 17" (15.9" v.i.s.) Monitor (blk)</td> <td>651767N</td> </tr> <tr> <td>IBM Wireless keyboard and mouse (blk)</td> <td>22P5170</td> </tr> <tr> <td>IBM Rapid Access™ III Kybd USB (black)</td> <td>22P5185</td> </tr> </table>		64MB SDRAM 133MHz NP DIMM	33L3071	128MB SDRAM 133MHz NP DIMM	33L3073	256MB SDRAM 133MHz NP DIMM	33L3075	2-Piece Speakers (black)	33L3440	3-Piece Speakers (black)	33L3441	40GB IDE Disk ATA-100 (5400 rpm)	22P7156	Zip Drive 250MB (white/black)	00N8078	5.25 to 3.5 DASH Bay Conversion Kit	70G8165	12X/8X/32X ⁴ max CD-RW Internal (blk)	10K3785	48X/20X ⁴ IDE CD-ROM (black)	10K3782	8X/4X/32X/8X ⁴ max CD-RW/DVD-ROM Combo Drive (black)	10K3790	16MB NVIDIA™ Vanta LP PCI Card	33L3443	56K V.90 Data/Fax PCI modem ¹⁰	33L4618	V.90 ¹⁰ Modem PCI low profile	19K4162	IBM E94 19" (18.0" v.i.s.) Monitor (blk)	633440N	IBM T540 15" Flat Panel Monitor (black)	9511AG4	IBM E74M 17" (15.9" v.i.s.) Monitor (blk)	651767N	IBM Wireless keyboard and mouse (blk)	22P5170	IBM Rapid Access™ III Kybd USB (black)	22P5185
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16MB NVIDIA™ Vanta LP PCI Card	33L3443																																									
56K V.90 Data/Fax PCI modem ¹⁰	33L4618																																									
V.90 ¹⁰ Modem PCI low profile	19K4162																																									
IBM E94 19" (18.0" v.i.s.) Monitor (blk)	633440N																																									
IBM T540 15" Flat Panel Monitor (black)	9511AG4																																									
IBM E74M 17" (15.9" v.i.s.) Monitor (blk)	651767N																																									
IBM Wireless keyboard and mouse (blk)	22P5170																																									
IBM Rapid Access™ III Kybd USB (black)	22P5185																																									
Speakers	Ext active speakers / 2-piece / 1.5 watts / 200Hz-17kHz freq resp / black color		<p>Preload with Windows 2000⁵</p> <p>Microsoft® Windows® 2000 Professional</p> <p>Lotus® SmartSuite® license⁶</p> <p>Lotus Notes® Client 5.0 license⁶</p> <p>- Disk-to-Disk Recovery (in Service Partition)</p> <p>◇ Software Selections CD-ROM</p> <p>- Microsoft Office XP Small Business²⁸ (Word, Excel, Outlook, Publisher, Small Business Tools)</p> <p>◇ Office XP Small Business CD-ROM</p>																																							
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / Wake on LAN®																																									
Keyboard / mouse	106-key (rubber dome) keyboard / IBM 2-button mouse		<p>Preload with Windows Millennium (Me)⁵</p> <p>Microsoft Windows Millennium Edition</p> <p>Lotus SmartSuite license⁶</p> <p>Lotus Notes® Client 5.0 license⁶</p> <p>- Disk-to-Disk Recovery (in Service Partition)</p> <p>◇ Software Selections CD-ROM</p>																																							
Power supply	155 watts with variable speed fan / universal / manual switch																																									

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
US models announced September 18, 2001
US models withdrawn effective April 2002

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Name	Type-model	Color	Slot/bay	Processor	MHz ¹ or GHz ¹	Mem ⁶	Disk	CD-ROM	Diskette	Graphics	Ethernet	Preload	Available
A21	6339-16U	Black	3x3	Celeron™	800MHz	128MB	20GB ²	None	Diskette	GMCH	10/100	Windows® 98 SE ⁵	Jul 2001
A21	6339-24U	Black	3x3	Celeron	850MHz	128MB	20GB	48X-20X ⁴	Diskette	GMCH	10/100	Windows 2000	Jul 2001
A21	6339-26U	Black	3x3	Celeron	850MHz	128MB	20GB	48X-20X	None	GMCH	10/100	Windows 2000	Jul 2001
A21	6339-B5U	Black	3x3	Pentium® III	1.0GHz	128MB	40GB	48X-20X	Diskette	GMCH	10/100	Windows 2000	Jul 2001
A21	6339-B8U	Black	3x3	Pentium III	1.0GHz	128MB	20GB	48X-20X	None	GMCH	10/100	Windows 2000	Jul 2001
A21	6339-41U	Black	3x3	Celeron	900MHz	128MB	20GB	48X-20X	Diskette	GMCH	10/100	Windows 2000	Aug 2001
A21	6339-56U	Black	3x3	Celeron	950MHz	128MB	20GB	48X-20X	Diskette	GMCH	10/100	Windows 2000	Aug 2001
A21	6339-57U	Black	3x3	Celeron	950MHz	128MB	20GB	48X-20X	None	GMCH	10/100	Windows 2000	Aug 2001
A21	6339-64U	Black	3x3	Celeron	1.0GHz	128MB	20GB	48X-20X	Diskette	GMCH	10/100	Windows 2000	Aug 2001
A21	6339-81U	Black	3x3	Celeron	1.0GHz	128MB	20GB	48X-20X	Diskette	GMCH	10/100	Windows XP Home	Sep 2001

Positioning Processor	<i>Leading-edge technologies and affordable prices</i> Intel® Celeron 800, 850, 900, 950MHz¹ or 1.0GHz¹ with 100MHz Front Side Bus or Intel Pentium III 1.0GHz with 133MHz Front Side Bus		Desktop Small Form Factor
Implementation L2 cache	Processor and L2 cache in FC-PGA in PGA370 socket <i>Celeron: 128KB std and max / ECC / full speed</i> <i>Pentium III: 256KB std and max / ECC / full speed</i>		 <p>Bay ① 3.5", SL 1", access, std or opt diskette Bay ② 5.25", HH 1.6" access, std or opt CD-ROM Bay ③ 3.5", SL 1", no access, std disk</p>
Memory - std/max Memory - sockets Memory - type	128MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz		Slot 1: 32-bit low-profile PCI 2.2 (5v) Slot 2: 32-bit low-profile PCI 2.2 (5v) Slot 3: 32-bit low-profile PCI 2.2 (5v)
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card		• Stealth black color • 12.0" W x 15.0" D x 3.5" H • 305mm W x 380mm D x 88 mm H • 18 to 19 lbs (8.2 to 8.6 kg)
Graphics - controller	SVGA / Direct AGP / in 810E Graphics Memory Controller Hub (GMCH) / 0MB std and max / 15-pin analog D-sub connector / DVMT; uses up to 11MB main memory with no display cache		
Disk Disk controller Diskette drive CD-ROM	ATA-100, value, SMART ³ III Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2) <i>Some models: 3.5" 1.44MB diskette drive</i> <i>Some models: 48X/20X⁴ CD-ROM / bootable</i>		SYSTEMS MANAGEMENT <ul style="list-style-type: none"> • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0b • System Management BIOS • DMI 2.0-compliant • Wired for Management 2.0-compliant
Architecture Chip set	Accelerated Hub Architecture / 266MB/sec I/O channel Intel 810E2 chipset / 82810E Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond® 83627F Super I/O for diskette, parallel, serial, keyboard, mouse		
Ports	<i>Front:</i> two USB (Version 1.1) <i>Back:</i> two serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor		SECURITY <ul style="list-style-type: none"> • Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) • Knockout in rear for optional U-bolt • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)		
Audio connectors Speakers	<i>Back:</i> microphone jack, line-in, line-out None / requires optional powered speakers		
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / Wake on LAN®		LIMITED WARRANTY*⁹ <ul style="list-style-type: none"> ↔ 3 year parts / 1 year labor ↔ International Warranty Service registration available⁹ ↔ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ↔ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ↔ 3 year on site warranty service upgrade options⁷: <ul style="list-style-type: none"> • Next day response, Mon-Fri 8-5 (ServicePac® part number 39L9199) • 4 hour response, Mon-Fri 8-5 (ServicePac part number 41L2732) • 4 hour response, 7 day x 24 hr (ServicePac part number 31L2724) ↔ Post warranty maintenance services available ↔ 24 hour x 7 day¹⁴ telephone, electronic, and internet support
Keyboard / mouse Power supply	104 or 106-key (rubber dome) keyboard / IBM 2-button mouse 95 watts with variable speed fan / universal / manual switch		
Preload with Windows 98SE⁵	Options Microsoft® Windows® 98 Second Edition 33L3071 Lotus® SmartSuite® license ⁶ 33L3073 Lotus Notes® Client 5.0 license ⁶ 33L3075 - Disk-to-Disk Recovery (in Service Partition) 33L3440 ♦ Software Selections CD-ROM 33L3441 40GB IDE Disk ATA-100 (5400 rpm) 22P7156 Zip Drive 250MB (white/black) 00N8078 5.25 to 3.5 DASD Bay Conversion Kit 70G8165 12X/8X/32X ⁴ max CD-RW Internal (blk) 10K3785 48X-20X ⁴ IDE CD-ROM (black) 10K3782 8X/4X/32X/8X ⁴ max CD-RW/DVD-ROM Combo Drive (black) 10K3790 16MB NVIDIA™ Vanta LP PCI Card 33L3443 56K V.90 Data/Fax PCI modem ¹⁰ 33L4618 V.90 ¹⁰ Modem PCI low profile 19K4162 IBM E94 19" (18.0" v.i.s.) Monitor (blk) 633440N IBM T540 15" Flat Panel Monitor (black) 9511AG4 IBM E74M 17" (15.9" v.i.s.) Monitor (blk) 651767N IBM Wireless keyboard and mouse (blk) 22P5170 IBM Rapid Access™ III Kybd USB (black) 22P5185		

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 US models announced September 18, 2001; previous models on July 17 and August 28, 2001
 US models withdrawn from marketing effective November 2001 or December 2001 or March 2002 or April 2002
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Name	Type-model	Color	Slotx/bay	Processor	MHz ¹ or GHz ²	Mem ⁸	Disk	CD-ROM	Diskette	Graphics	Ethernet	Chipset	Preload	Available
A21	6341-20U	White	3x4	Celeron™	800MHz	128MB	20GB ²	None	Diskette	GMCH	10/100	810E2	Windows® 98 SE ⁵	Jul 2001
A21	6341-27U	White	3x4	Celeron	850MHz	128MB	20GB	48X-20X ⁴	Diskette	GMCH	10/100	810E2	Windows 2000	Jul 2001
A21	6341-B7U	White	3x4	Pentium® III	1.0GHz	128MB	40GB	48X-20X	Diskette	GMCH	10/100	810E2	Windows 2000	Jul 2001
A21	6341-41U	White	3x4	Celeron	900MHz	128MB	20GB	48X-20X	Diskette	GMCH	10/100	810E2	Windows 2000	Aug 2001
A21	6341-58U	White	3x4	Celeron	950MHz	128MB	20GB	48X-20X	Diskette	GMCH	10/100	810E2	Windows 2000	Aug 2001
A21	6341-64U	White	3x4	Celeron	1.0GHz	128MB	20GB	48X-20X	Diskette	GMCH	10/100	810E2	Windows 2000	Aug 2001

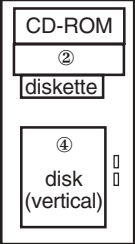
Positioning Processor	<i>Powerful, proven technology for performance on a budget</i> Intel® Celeron 800, 850, 900, 950MHz¹ or 1.0GHz¹ with 100MHz Front Side Bus or Intel Pentium III 1.0GHz with 133MHz Front Side Bus		Desktop	
Implementation L2 cache	Processor and L2 cache in FC-PGA in PGA370 socket <i>Celeron: 128KB std and max / ECC / full speed</i> <i>Pentium III: 256KB std and max / ECC / full speed</i>			
Memory - std/max	128MB std / 512MB max		Bay ① 5.25", HH 1.6", access, std or opt CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk Slot 1: 8 inch max, 32-bit PCI 2.2 (5v) Slot 2: 8 inch max, 32-bit PCI 2.2 (5v) Slot 3: 8 inch max, 32-bit PCI 2.2 (5v)	
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used			
Memory - type	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz		<ul style="list-style-type: none"> • 16.7" W X 16.7" D X 5.5" H • 425mm W X 425mm D X 140mm H • 21 to 25 lb (9.6 to 11.4 kg) • Pearl white color • Bay 1 and 2 in cage flips up • Bay 3 and 4 in cage flips up • Tool-less cover removal • Tool-less PCI slots 	
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card			
Graphics - controller	SVGA / Direct AGP / in 810E Graphics Memory Controller Hub (GMCH) / OMB std and max / 15-pin analog D-sub connector / DVMT; uses up to 11MB main memory with no display cache		SYSTEMS MANAGEMENT <ul style="list-style-type: none"> • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0b • System Management BIOS • DMI 2.0-compliant • Wired for Management 2.0-compliant 	
Disk	ATA-100, value, SMART ³ III			
Disk controller	Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2)		SECURITY <ul style="list-style-type: none"> • Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) • U bolt anchoring feature • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control 	
Diskette drive	3.5" 1.44MB diskette drive			
CD-ROM	<i>Some models: 48X-20X⁴ CD-ROM / bootable</i>			
Architecture Chip set	Accelerated Hub Architecture / 266MB/sec I/O channel Intel 810E2 chipset / 82810E Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond® 83627F Super I/O for diskette, parallel, serial, keyboard, mouse		LIMITED WARRANTY^{4,9} <ul style="list-style-type: none"> ↔ 3 year parts / 1 year labor warranty ↔ International Warranty Service⁹ ↔ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ↔ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ↔ 3 year on site warranty service upgrade options: <ul style="list-style-type: none"> • Next day response, Mon-Fri 8-5⁷ • 4 hour response, Mon-Fri 8-5⁷ • 4 hour response, 7 day x 24 hr⁷ ↔ Post warranty maintenance services available ↔ 24 hour x 7 day telephone, electronic, and Internet support 	
Ports	<i>Front:</i> two USB (Version 1.1) <i>Back:</i> two serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor			
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)			
Audio connectors	<i>Back:</i> microphone jack, line-in, line-out			
Speakers	None / requires optional powered speakers			
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / Wake on LAN®			
Keyboard / mouse	104 key (rubber dome) keyboard / IBM 2-button mouse			
Power supply	155 watts with variable speed fan / universal / manual switch			
Preload with Windows 98SE⁵	Options			
Microsoft® Windows® 98 Second Edition	64MB SDRAM 133MHz NP DIMM	33L3071		
Lotus® SmartSuite® license ⁶	128MB SDRAM 133MHz NP DIMM	33L3073		
Lotus Notes® Client 5.0 license ⁶	256MB SDRAM 133MHz NP DIMM	33L3075		
- Disk-to-Disk Recovery (in Service Partition)	2-Piece Speakers	33L3440		
↕ Software Selections CD-ROM	3-Piece Speakers	33L3441		
	40GB IDE Disk ATA-100 (5400 rpm)	22P7156		
	Zip Drive 250MB (white/black)	00N8078		
	5.25 to 3.5 DASD Bay Conversion Kit	70G8165		
Preload with Windows 2000⁵	12X/8X/32X ⁴ max CD-RW Internal (wht)	10K3784		
Microsoft® Windows 2000 Professional	8X/4X/32X ⁴ max CD-RW Internal (wht)	33L5019		
Lotus SmartSuite license ⁶	48X-20X ⁴ IDE CD-ROM (white)	33L5001		
Lotus Notes Client 5.0 license ⁶	8X/4X/32X/8X ⁴ max CD-RW/DVD-ROM Combo Drive (black)	10K3790		
- Disk-to-Disk Recovery (in Service Partition)	16MB NVIDIA™ Vanta LP PCI Card	33L3443		
↕ Software Selections CD-ROM	56K V.90 Data/Fax PCI modem ¹⁰	33L4618		
	V.90 ¹⁰ Modem PCI low profile	19K4162		
	IBM E94 (18.0" viewable) Monitor (wht)	633400N		
	IBM T540 15" Flat Panel Monitor (white)	9511AW4		
	IBM E74M (15.9" viewable) Monitor (wht)	651707N		
	IBM Wireless keyboard and mouse (blk)	22P5170		
	IBM Rapid Access™ III Kybd USB (wht)	22P5206		

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US models announced August 28, 2001; previous models on July 17, 2001

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US models withdrawn from marketing effective November 2001 or December 2001 or March 2002 or April 2002

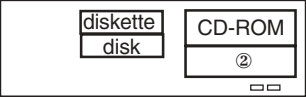
Name	Type-model	Color	Slotxbay	Processor	MHz ¹ or GHz ¹	Memory ⁶	Disk	CD-ROM	Diskette	Graphics	Ethernet	Chipset	Preload	Available
A21	6342-25U	Black	3x4	Celeron™	850MHz	128MB	40GB ²	48X-20X ⁴	Diskette	GMCH	10/100	810E2	Windows®2000 ⁵	Jul 2001
A21	6342-B3U	Black	3x4	Pentium® III	1.0GHz	128MB	40GB	48X-20X	Diskette	GMCH	10/100	810E2	Windows2000	Jul 2001
A21	6342-46U	Black	3x4	Celeron	900MHz	128MB	20GB	48X-20X	Diskette	GMCH	10/100	810E2	Windows2000	Aug 2001
A21	6342-54U	Black	3x4	Celeron	950MHz	128MB	20GB	48X-20X	Diskette	GMCH	10/100	810E2	Windows2000	Aug 2001
A21	6342-62U	Black	3x4	Celeron	1.0GHz	128MB	20GB	48X-20X	Diskette	GMCH	10/100	810E2	Windows2000	Aug 2001

Positioning Processor	<i>Powerful, proven technology for performance on a budget</i> Intel® Celeron 850,900, 950MHz¹ or 1GHz¹ with 100MHz Front Side Bus or Intel Pentium III 1.0GHz with 133MHz Front Side Bus	
Implementation L2 cache	Processor and L2 cache in FC-PGA in PGA370 socket <i>Celeron: 128KB std and max / ECC / full speed</i> <i>Pentium III: 256KB std and max / ECC / full speed</i>	
Memory - std/max	128MB std / 512MB max	Micro Tower Bay ① 5.25", HH 1.6", access, CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk Slot 1: 9 inch max, 32-bit PCI 2.2 (5v) Slot 2: 9 inch max, 32-bit PCI 2.2 (5v) Slot 3: 9 inch max, 32-bit PCI 2.2 (5v)
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used	
Memory - type	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz	<ul style="list-style-type: none"> Stealth black color Swinging door on Bay 1, 2, and 3 (does not cover Bay 1) Slide out disk Handle on top 7.6" W X 15.0" D X 15.0" H 194mm W X 381mm D X 381mm H 18.3 to 22.5 lb (8.3 to 10.3 kg)
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card	
Graphics - controller	SVGA / Direct AGP / in 810E Graphics Memory Controller Hub (GMCH) / 0MB std and max / 15-pin analog D-sub connector / DVMT; uses up to 11MB main memory with no display cache	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 99-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b System Management BIOS DMI 2.0-compliant Wired for Management 2.0-compliant
Disk	ATA-100, value, SMART ³ III	
Disk controller	Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2)	SECURITY <ul style="list-style-type: none"> Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) U bolt anchoring feature Padlock support (user supplied lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control
Diskette drive	3.5" 1.44MB diskette drive	
CD-ROM	48X-20X ⁴ CD-ROM / bootable	LIMITED WARRANTY*⁹ <ul style="list-style-type: none"> ↔ 3 year parts / 1 year labor warranty ↔ International Warranty Service⁹ ↔ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ↔ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ↔ 3 year on site warranty service upgrade options: <ul style="list-style-type: none"> Next day response, Mon-Fri 8-5⁷ 4 hour response, Mon-Fri 8-5⁷ 4 hour response, 7 day x 24 hr⁷ ↔ Post warranty maintenance services available ↔ 24 hour x 7 day telephone, electronic, and Internet support
Architecture	Accelerated Hub Architecture / 266MB/sec I/O channel	
Chip set	Intel 810E2 chipset / 82810E Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond® 83627F Super I/O for diskette, parallel, serial, keyboard, mouse	
Ports	<i>Front:</i> two USB (Version 1.1) <i>Back:</i> two serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor	
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)	
Audio connectors	<i>Back:</i> microphone jack, line-in, line-out	
Speakers	None / requires optional powered speakers	
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / Wake on LAN®	
Keyboard / mouse	104 key (rubber dome) keyboard / IBM 2-button mouse	
Power supply	155 watts with variable speed fan / universal / manual switch	
Preload with Windows 2000⁵	Options	
Microsoft® Windows® 2000 Professional	64MB SDRAM 133MHz NP DIMM	33L3071
Lotus® SmartSuite® license ⁶	128MB SDRAM 133MHz NP DIMM	33L3073
Lotus Notes® Client 5.0 license ⁶	256MB SDRAM 133MHz NP DIMM	33L3075
- Disk-to-Disk Recovery (in Service Partition)	2-Piece Speakers	33L3440
↕ Software Selections CD-ROM	3-Piece Speakers	33L3441
	40GB IDE Disk ATA-100 (5400 rpm)	22P7156
	Zip Drive 250MB (white/black)	00N8078
	5.25 to 3.5 DASD Bay Conversion Kit	70G8165
	12X/8X/32X ⁴ max CD-RW Internal (blk)	10K3785
	48X-20X ⁴ IDE CD-ROM (black)	10K3782
	8X/4X/32X/8X ⁴ max CD-RW/DVD-ROM Combo Drive (black)	10K3790
	16MB NVIDIA™ Vanta LP PCI Card	33L3443
	56K V.90 Data/Fax PCI modem ¹⁰	33L4618
	V.90 ¹⁰ Modem PCI low profile	19K4162
	IBM E94 (18.0" viewable) Monitor (blk)	633440N
	IBM T540 15" Flat Panel Monitor (black)	9511AG4
	IBM E74M (15.9" viewable) Monitor (blk)	651767N
	IBM Wireless keyboard and mouse (blk)	22P5170
	IBM Rapid Access™ III Kybd USB (black)	22P5185

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US models announced August 28, 2001; previous models on July 17, 2001
US models withdrawn effective December 2001 or March 2002 or April 2002

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Name	Type-model	Color	Slot x bay	Processor	GHz	Memory ^a	Disk	CD-ROM	Diskette	Graphics	Ethernet	Chipset	Preload	Available date
A22	6341-81U	Black	3x4	Celeron®	1.2GHz	128MB	40GB ²	48X-20X ⁴	Diskette	GMCH	10/100	810E	Windows® XP Pro ⁵	July 2002
A22	6341-83U	Black	3x4	Celeron	1.2GHz	128MB	40GB	48X-20X	Diskette	GMCH	10/100	810E	Windows 2000	July 2002
A22	6341-D1U	Black	3x4	Celeron	1.3GHz	128MB	40GB	48X-20X	Diskette	GMCH	10/100	810E	Windows XP Pro	July 2002
A22	6341-D3U	Black	3x4	Celeron	1.3GHz	128MB	40GB	48X-20X	Diskette	GMCH	10/100	810E	Windows 2000	July 2002
A22	6341-E1U	Black	3x4	Celeron	1.4GHz	128MB	40GB	48X-20X	Diskette	GMCH	10/100	810E	Windows XP Pro	Aug 2002
A22	6341-E3U	Black	3x4	Celeron	1.4GHz	128MB	40GB	48X-20X	Diskette	GMCH	10/100	810E	Windows 2000	Aug 2002

Positioning Processor Implementation L2 cache	<i>Powerful, proven technology for performance on a budget</i> Intel® Celeron 1.2, 1.3, or 1.4GHz with 100MHz frontside bus Processor and L2 cache in FC-PGA in PGA370 socket 256KB std and max / ECC / full speed	Desktop	
Memory - std/max Memory - sockets Memory - type	128MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz	Bay ① 5.25", HH 1.6", access, std or opt CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk	
Graphics - type Graphics - controller	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card SVGA / Direct AGP / in 810E Graphics Memory Controller Hub (GMCH) / OMB std and max / 15-pin analog D-sub connector / Display Video Memory Technology (DVMT); uses up to 11MB main memory with no display cache	Slot 1: 8 inch max, 32-bit PCI 2.2 (5v) Slot 2: 8 inch max, 32-bit PCI 2.2 (5v) Slot 3: 8 inch max, 32-bit PCI 2.2 (5v)	
Disk Disk controller Diskette drive CD-ROM	40GB, ATA-100, 5400 rpm Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2) 3.5" 1.44MB diskette drive 48X-20X ⁴ CD-ROM / bootable	• 16.7" W X 16.7"D X 5.5"H • 425mm W X 425mm D X 140mm H • 21 to 25 lb (9.6 to 11.4 kg) • Stealth black color • Bay 1 and 2 in cage flips up • Bay 3 and 4 in cage flips up • Tool-less cover removal • Tool-less PCI slots	

Architecture Chip set	Accelerated Hub Architecture / 266MB/sec I/O channel Intel 810E2 chipset / 82810E Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond® 83627F Super I/O for diskette, parallel, serial, keyboard, mouse	<p>SYSTEMS MANAGEMENT</p> <ul style="list-style-type: none"> • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0b • System Management BIOS • DMI 2.0-compliant • Wired for Management 2.0-compliant <p>SECURITY</p> <ul style="list-style-type: none"> • Knockout in rear for optional keylock to lock cover to chassis (lock available from Illinois Lock at 847-537-1800) • U bolt anchoring feature • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control
Ports	<i>Front:</i> two USB (Version 1.1) <i>Back:</i> two serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor	
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)	
Audio connectors Speakers	<i>Back:</i> microphone jack, line-in, line-out None / requires optional powered speaker(s) (not included)	
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ET PHY (physical layer) / Wake on LAN®	
Keyboard / mouse Power supply	104 key (rubber dome) keyboard / IBM 2-button mouse 185 watts with variable speed fan / universal / manual switch	

Preload with Windows 2000 ⁵	Options	
Microsoft® Windows® 2000 Professional Lotus® SmartSuite® license ⁶	128MB SDRAM 133MHz NP DIMM	33L3073
Lotus Notes® Client 5.0 license ⁶	256MB SDRAM 133MHz NP DIMM	33L3075
- Disk-to-Disk Recovery (in Service Partition)	Infinity 2-Piece Active Speakers (black)	33L3440
◇ Software Selections CD-ROM	Altec Lansing 4100 5-Piece Speakers	22P8474
	40X/12X/40X Max ⁴ CD-RW internal (blk)	22P6976
	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	10K3790
Preload with Windows XP Professional⁵	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
Microsoft Windows XP Professional Lotus® SmartSuite® license ⁶	V.90 ¹⁰ Modem PCI low profile	19K4162
Lotus Notes® Client 5.0 license ⁶	IBM USB 2.0 Portable CD-RW	22P5297
- Disk-to-Disk Recovery (in Service Partition)	IBM Portable USB 2.0 Disk Rapid Restore	09N4211
◇ Software Selections CD-ROM	IBM 500 Uninterruptable Pwr Sup (flat)	33L3477
	IBM 675 Uninterruptable Pwr Sup (tower)	33L3478
	IBM High Rate Wireless LAN PCI Adapter	22P6901
	IBM High Rate Wireless LAN Access Point	09N9906
	IBM High Rate Wireless LAN Gateway	22P6401
	IBM E74 (16.0" viewable) Monitor (black)	63324HN
	IBM P77 (16.0" viewable) Monitor (black)	6639U3N
	IBM T541 15" Flat Panel Monitor (black)	9512AB1
	IBM T560 15" Flat Panel Monitor (black)	6656HG2
	IBM T750 15" Flat Panel Monitor (black)	6657HG2
	IBM Wireless keyboard and mouse (blk)	22P5170
	IBM Rapid Access™ III USB Kybd w/ hub (blk)	22P5185
	IBM Optical 3-Button ScrollPoint® Mouse	31P7405
	IBM Portable USB 2.0 20GB Hard Disk	09N4211

LIMITED WARRANTY ¹
<ul style="list-style-type: none"> ⇒ 3 year parts / 1 year labor ⇒ International Warranty Service⁹ ⇒ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ⇒ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ⇒ On site warranty service upgrade options (in eligible locations):⁷ <ul style="list-style-type: none"> • 3 year IOR 9x5, NBD response (ServicePac® part number 30L9199) • 3 year IOR 9x5, 4 hour response (ServicePac part number 41L2732) • 3 year IOR 24x7, 4 hour response (ServicePac part number 31L2724) • 4 year IOR 9x5, NBD response (ServicePac® part number 69P9158) • 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9159) • 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9160) ⇒ Post warranty maintenance services available ⇒ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹

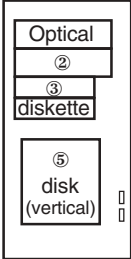
See footnotes for important warranty information
US models announced June 18 or August 27, 2002
US models withdrawn effective October 2002, December 2002, or February 2003
(6341J) © IBM Corp. February 2003

Name	Type-model	Color	Slot x bay	Processor	GHz	Memory ⁶	Disk	Optical	Diskette	Graphics	Ethernet	Modem	Chipset	Speakers	Preload	Available date
A22	2257-31U	Black	3x4	Celeron® 1.3GHz	1.3GHz	128MB	40GB ²	CD-ROM	Diskette	GMCH 10/100	No	No	810E	No	XP Pro ⁵	Oct 2002
A22	2257-32U	Black	3x4	Celeron 1.3GHz	1.3GHz	128MB	40GB	CD-ROM	Diskette	GMCH 10/100	Modem	810E	Yes	XP Home	Oct 2002	
A22	2257-33U	Black	3x4	Celeron 1.3GHz	1.3GHz	128MB	40GB	CD-RW	Diskette	GMCH 10/100	Modem	810E	Yes	XP Home	Oct 2002	

Positioning Processor Implementation L2 cache	<i>Powerful, proven technology for performance on a budget</i> Intel® Celeron 1.3GHz with 100MHz frontside bus Processor and L2 cache in FC-PGA in PGA370 socket 256KB std and max / ECC / full speed	Micro Tower Bay ① 5.25", HH 1.6", access, Optical Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk Slot 1: 9 inch max, 32-bit PCI 2.2 (5v) Slot 2: 9 inch max, 32-bit PCI 2.2 (5v) - used by modem (some) Slot 3: 9 inch max, 32-bit PCI 2.2 (5v) • Stealth black color • Swinging door on Bay 1, 2, and 3 (does not cover Bay 1) • Slide out disk • Handle on top • 7.6" W X 15.0" D X 15.0" H • 194mm W X 381mm D X 381mm H • 18.3 to 22.5 lb (8.3 to 10.3 kg)	
Memory - std/max Memory - sockets Memory - type	128MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz		
Graphics - type Graphics - controller	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card SVGA / Direct AGP / in 810E Graphics Memory Controller Hub (GMCH) / 0MB std and max / 15-pin analog D-sub connector / Display Video Memory Technology (DVMT); uses up to 11MB main memory with no display cache		
Disk Disk controller Diskette drive CD-ROM CD-RW	40GB, ATA-100, 5400 rpm Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2) 3.5" 1.44MB diskette drive 31U/32U: 48X-20X ⁴ CD-ROM / bootable 33U: 16X/10X/40X Max ⁴ CD-RW / bootable		
Architecture Chip set	Accelerated Hub Architecture / 266MB/sec I/O channel Intel 810E2 chipset / 82810E Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / Winbond® 83627F Super I/O for diskette, parallel, serial, keyboard, mouse	SYSTEMS MANAGEMENT • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0b • System Management BIOS • DMI 2.0-compliant • Wired for Management 2.0-compliant	
Ports	<i>Front:</i> two USB (Version 1.1) <i>Back:</i> two serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor	SECURITY • U bolt anchoring feature • Padlock support (user supplied lock) • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control	
Audio Audio connectors Speakers	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion) <i>Back:</i> microphone jack, line-in, line-out 31U: None / requires optional powered speaker(s) (not included) 32U/33U: External speakers / 2-piece / 1.5 watts per channel / 200Hz - 17 kHz frequency response / black color with blue grill		
Ethernet Modem	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ET PHY (physical layer) / Wake on LAN® 56K ¹⁰ V.90 data/fax modem / Conexant® chipset / PCI adapter		
Keyboard Mouse Power supply	104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector) IBM Standard 2-Button Mouse (6-pin PS/2 connector) 155 watts with variable speed fan / universal / manual switch		
Preload with Windows XP Professional⁵ Microsoft® Windows® XP Professional - Disk-to-Disk Recovery (in Service Partition) ♦ Software Selections CD-ROM Options 128MB SDRAM 133MHz NP DIMM 33L3073 256MB SDRAM 133MHz NP DIMM 33L3075 Infinity 2-Piece Active Speakers (black) 33L3440 Altec Lansing 4100 5-Piece Speakers 22P8474 40X/12X/40X Max ⁴ CD-RW internal (blk) 22P6976 8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 10K3790 IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950 V.90 ¹⁰ Modem PCI low profile 19K4162 IBM USB 2.0 Portable CD-RW 22P5297 IBM Portable USB 2.0 Disk Rapid Restore 09N4211 IBM 500 Uninterruptable Pwr Sup (flat) 33L3477 IBM 675 Uninterruptable Pwr Sup (tower) 33L3478 IBM High Rate Wireless LAN PCI Adapter 22P6901 IBM High Rate Wireless LAN Access Point 09N9906 IBM High Rate Wireless LAN Gateway 22P6401 IBM E74 (16.0" viewable) Monitor (black) 63324HN IBM P77 (16.0" viewable) Monitor (black) 6639U3N IBM T541 15" Flat Panel Monitor (black) 9512AB1 IBM T560 15" Flat Panel Monitor (black) 6656HG2 IBM T750 15" Flat Panel Monitor (black) 6657HG2 IBM Wireless keyboard and mouse (blk) 22P5170 IBM Rapid Access™ III USB Kybd w/ hub (blk) 22P5185 IBM Optical 3-Button ScrollPoint® Mouse 31P7405 IBM Portable USB 2.0 20GB Hard Disk 09N4211		LIMITED WARRANTY*⁹ ⇨ 1 year parts and labor ⇨ On site, 8 am - 5 pm, Mon - Fri, 2nd business day response time ⇨ On site service upgrade options (in eligible locations)⁷: • 1 year 9x5 4 hour response (ServicePac® part number 54P1858) • 2 year 9x5 Next Business Day (ServicePac part number 54P1859) • 2 year 9x5 4 hour response (ServicePac part number 54P1860) • 3 year 9x5 Next Business Day (ServicePac part number 54P1861) • 3 year 9x5 4 hour response (ServicePac part number 54P1862) ⇨ 24 hour x 7 day¹⁴ telephone, electronic, and Internet support	
Preload with Windows XP Home Edition⁵ Microsoft Windows XP Home Edition - Disk-to-Disk Recovery (in Service Partition) ♦ Software Selections CD-ROM Preloaded (all) • Access IBM • Norton AntiVirus (OEM Version) • PC-Doctor™ • Update Connector™ ¹⁵ • Veritas MyCD and DLA (CD-RW) Downloadable (all) • IBM Rapid Restore™ PC • Access Support • Remote Deployment Manager • Software Delivery Assistant • IBM Director Agent • Software Migration Assistant License - CD not included (all) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand Alone Client ⁶			

See footnotes for important warranty information
US models announced October 8, 2002
US models withdrawn effective February 2003

Name	Type-model	Slot/bay	Processor	GHz	L2 cache	Mem	Disk	Optical	Graphics	Ethernet	Modem	FireWire	Preload	Suite	Available
A22p	2292-22U	4x5	Pentium® 4	1.6GHz	256KB	128MB	20GB ²	CD-ROM	Vanta 16MB	10/100	Mod	XP Home ⁵			Feb 2002
A22p	2292-23U	4x5	Pentium 4	1.6GHz	256KB	128MB	20GB	CD-ROM	Vanta 16MB	10/100	Mod	XP Home	Works		Feb 2002
A22p	2292-34U	4x5	Pentium 4	1.8GHz	256KB	128MB	20GB	CD-ROM	Vanta 16MB	10/100	Mod	XP Home			Feb 2002
A22p	2292-35U	4x5	Pentium 4	1.8GHz	256KB	128MB	40GB	CD-RW	GeForce2 32MB	10/100	Mod	XP Home	Works		Feb 2002
A22p	2292-36U	4x5	Pentium 4	1.8GHz	256KB	256MB	40GB	CD-RW	GeForce2 32MB out	10/100	Mod 1394	XP Home			Feb 2002
A22p	2292-41U	4x5	Pentium 4	2.2GHz	512KB	256MB	80GB	DVD, RW	GeForce2 32MB out	10/100	Mod 1394	XP Home			Feb 2002
A22p	2292-42U	4x5	Pentium 4	2.2GHz	512KB	256MB	80GB	DVD, RW	GTS Pro 64MB out	10/100	Mod 1394	XP Home			Feb 2002
A22p	2292-43U	4x5	Pentium 4	2.2GHz	512KB	256MB	80GB	Combo	GeForce2 32MB out	10/100	Mod 1394	XP Home			Feb 2002
A22p	2292-51U	4x5	Pentium 4	2.0GHz	512KB	256MB	40GB	CD-RW	GeForce2 32MB out	10/100	Mod 1394	XP Home			Feb 2002

Positioning	<i>Leading edge technologies and affordable prices</i>	
Processor	Intel® Pentium 4 at 1.6, 1.8, 2.0, or 2.2GHz with 400MHz frontside bus	Micro Tower
L2 cache	256KB or 512KB std and max / ECC / full speed	<ul style="list-style-type: none"> Stealth black color 7.5" W X 15.7" D X 16.3" H 190mm W X 399mm D X 415mm H 22.5 to 29.5 lb (10.2 to 13.4 kg)
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket	<ul style="list-style-type: none"> Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots
Memory - std/max	128MB or 256MB std / 1.5GB max	
Memory - sockets	Three 168-pin gold-plated DIMM sockets / one socket used	
Memory - type	133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2)	<ul style="list-style-type: none"> Bay ① 5.25", HH 1.6", access, std optical drive Bay ② 5.25", HH 1.6", access, std optical or open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, std disk
Graphics controller (one of following)	<ul style="list-style-type: none"> NVIDIA™ Vanta (2D and 3D) / AGP 4X adapter / TNT2 Vanta GPU / 16MB std and max 125MHz SDRAM / 250MHz RAMDAC / one analog DB-15 connector NVIDIA GeForce2 MX (advanced 3D) / AGP 4X adapter / GeForce2 MX GPU / 32MB std and max 166MHz SDRAM / 350MHz RAMDAC / one analog DB-15 connector NVIDIA GeForce2 MX VGA/DVI/TV / AGP 4X adapter / GeForce2 MX GPU / 32MB std and max 166MHz SDRAM / 350MHz RAMDAC / three connectors: analog DB-15, digital DVI-D, S-video out (but single head [not dual head]) NVIDIA GeForce2 GTS Pro (advanced 3D) / AGP 4X adapter / GeForce2 Pro GPU / 64MB std and max 200MHz DDR-SDRAM / 350MHz RAMDAC / one analog DB-15 connector and S-Video out connector 	<ul style="list-style-type: none"> Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v) - used Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) - modem Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v) - FireWire** Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v)

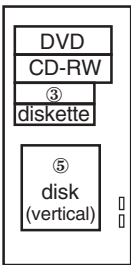
Disk	ATA-100, 7200 rpm, SMART ³ III	SYSTEMS MANAGEMENT
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH2)	
Diskette drive	3.5" 1.44MB diskette drive	
CD-ROM	<i>Some models:</i> 48X-20X ⁴ CD-ROM / bootable	
CD-RW	<i>Some models:</i> 16X/10X/40X Max ⁴ CD-RW / ATAPI / bootable	
DVD-ROM	<i>Some models:</i> 16X/48X Max ⁴ DVD-ROM / bootable	
CD-RW/DVD combo	<i>Some models:</i> 8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo	
Cables	Two EIDE 80-conductor cables (one 2-drop cable to CD, one 1-drop cbl to disk)	

Chipset	Intel 845 chipset / 82845 Memory Controller Hub (MCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / National® 87360 Super I/O for diskette, parallel, serial, keyboard, mouse	SECURITY
Ports	<i>Front:</i> two USB (Version 1.1), microphone in, headphone out; <i>Back:</i> two 9-pin serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor	
Audio	Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec	
Audio connectors	<i>Back:</i> microphone jack, line-in, line-out	
Speakers	External active speakers / Jazz Infinity® / 2-piece / 3.5 watts / black color	
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN® / Intel Pro/100VE Desktop Connection	
Modem	56K¹⁰ data/fax modem / Conexant® chipset / controllerless HCF modem / PCI adapter	
1394 FireWire	<i>Some models:</i> FireWire PCI adapter / 1394A / 400Mbps / dual 6-pin ports on rear / includes 4-pin port on front of system / no cables included	
Security chip	None	

Keyboard / mouse	IBM Rapid Access™ IIIe Keyboard (USB / no USB hub or ports) / IBM ScrollPoint® III mouse (USB)	LIMITED WARRANTY¹
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)	
Power supply	185 watts with variable speed fan / universal / manual switch	

Preload with Windows XP Home ⁵	Options	
Microsoft® Windows XP Home Edition	64MB SDRAM 133MHz CL2 NP DIMM	10K0055
Lotus® SmartSuite® Millennium license ⁶	128MB SDRAM 133MHz CL2 NP DIMM	10K0057
- Disk-to-Disk Recovery (in Service Partition)	256MB SDRAM 133MHz CL2 NP DIMM	10K0059
◇ Software Selections CD-ROM	512MB SDRAM 133MHz CL2 NP DIMM	10K0061
- <i>Models 23U and 35U only:</i> Microsoft Works Suite 2001 (Word 2000, Works 6.0, Encarta® Encyclopedia Standard 2001, Money 2001, Picture It!® Publishing 2001, Streets & Trips 2001, Outlook® Express)	40GB IDE Disk ATA-100 (5400 rpm)	22P7156
	60GB IDE Disk ATA-100 (7200 rpm)	09N4207
	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
	40X/12X/40X Max ⁴ CD-RW internal (blk)	22P6976
	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	10K3790
	IBM DVD-RAM/DVD-R Drive (black)	22P6959
	Zip Drive 250MB (white/black)	00N8078
	IBM E94 19" (18.0" viewable) Monitor (blk)	633440N
	IBM T540 15" Flat Panel Monitor (black)	9511AG4
	IBM T560 15" Flat Panel Monitor (black)	6656HG2
	IBM E74M 17" (15.9" view) Monitor (blk)	651767N
	Other options at ibm.com/pc/us/accessories	


Name	Type-model	Slotx	bay	Processor	GHz	L2 cache	Mem	Disk	Optical	Graphics	Ethernet	Modem	FireWire	Preload	Suite	Available
A22p	2292-44U	4x5		Pentium® 4	2.2GHz	512KB	256MB	80GB ²	DVD, CD-RW	Radeon 64MB	10/100	Modem	None	XP Home ⁵	None	Apr 2002

Positioning Processor	<i>Leading edge technologies and affordable prices</i> Intel® Pentium 4 at 2.2GHz with 400MHz frontside bus		Micro Tower <ul style="list-style-type: none"> Stealth black color 7.5" W X 15.7"D X 16.3"H 190mm W X 399mm D X 415mm H 22.5 to 29.5 lb (10.2 to 13.4 kg) Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots 
L2 cache Implementation	512KB std and max / ECC / full speed Processor and L2 cache in FC-PGA2 in mPGA478B socket		
Memory - std/max Memory - sockets Memory - type	256MB std / 1.5GB max Three 168-pin gold-plated DIMM sockets / one socket used 133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2)		
Graphics controller	<ul style="list-style-type: none"> AT® Radeon 7000 (advanced 3D) / AGP 4X adapter / Radeon VE (RV100) GPU / 64MB std and max 155MHz SDRAM / 300MHz RAMDAC / one analog DB-15 connector 		
Disk Disk controller Diskette drive CD-RW DVD-ROM Cables	80GB, ATA-100, 7200 rpm, S.M.A.R.T. ³ III Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH2) 3.5" 1.44MB diskette drive 16X/10X/40X Max ⁴ CD-RW / ATAPI / bootable 16X/48X ⁴ DVD-ROM / bootable Two EIDE 80-conductor cables (one 2-drop cable to CD, one 1-drop cable to disk)		
Chipset	Intel 845 chipset / 82845 Memory Controller Hub (MCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / National® 87360 Super I/O for diskette, parallel, serial, keyboard, mouse		
Ports	<i>Front:</i> two USB (Version 1.1), microphone in, headphone out; <i>Back:</i> two 9-pin serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor		
Audio Audio connectors Speakers Ethernet	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec <i>Back:</i> microphone jack, line-in, line-out External active speakers / Jazz Infinity® / 2-piece / 3.5 watts / black color 10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN® / Intel Pro/100VE Desktop Connection		
Modem Security chip	56K¹⁰ data/fax modem / Conexant® chipset / controllerless HCF modem / PCI adapter None		
Keyboard / mouse Cooling fans Power supply	IBM Rapid Access™ IIIe Keyboard (USB / no USB hub or ports) / IBM ScrollPoint® III mouse (USB) Three variable speed fans (power supply, fansink, rear fan) 185 watts with variable speed fan / universal / manual switch		
Preload with Windows XP Home⁵ Microsoft® Windows XP Home Edition Lotus® SmartSuite® Millennium license ⁶ - Disk-to-Disk Recovery (in Service Partition) ⇨ Software Selections CD-ROM Note: Model 44U has two optical drives (one DVD-ROM and one CD-RW)			SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b System Management BIOS DMI 2.0-compliant Wired for Management 2.0-compliant SECURITY <ul style="list-style-type: none"> U bolt anchoring feature (U-bolt assembly is optional) Padlock support (user supplied lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control LIMITED WARRANTY¹ <ul style="list-style-type: none"> ⇨ 1 year parts and labor ⇨ On site, 8 am - 5 pm, Mon - Fri, 2nd business day response time ⇨ On site warranty service upgrade options⁷: <ul style="list-style-type: none"> 1 year 9x5 4 hour response (ServicePac® part number 54P1858) 2 year 9x5 Next Business Day (ServicePac part number 54P1859) 2 year 9x5 4 hour response (ServicePac part number 54P1860) 3 year 9x5 Next Business Day (ServicePac part number 54P1861) 3 year 9x5 4 hour response (ServicePac part number 54P1862) ⇨ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹
Options 64MB SDRAM 133MHz CL2 NP DIMM 10K0055 128MB SDRAM 133MHz CL2 NP DIMM 10K0057 256MB SDRAM 133MHz CL2 NP DIMM 10K0059 512MB SDRAM 133MHz CL2 NP DIMM 10K0061 40GB IDE Disk ATA-100 (5400 rpm) 22P7156 60GB IDE Disk ATA-100 (7200 rpm) 09N4207 IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950 40X/12X/40X Max ⁴ CD-RW internal (blk) 22P6976 8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 10K3790 IBM DVD-RAM/DVD-R Drive (black) 22P6959 Zip Drive 250MB (white/black) 00N8078 IBM E94 19" (18.0" viewable) Monitor (blk) 633440N IBM T540 15" Flat Panel Monitor (black) 9511AG4 IBM T560 15" Flat Panel Monitor (black) 6656HG2 IBM E74M 17" (15.9" view) Monitor (blk) 651767N Other options at ibm.com/pc/us/accessories			

See footnotes for important warranty information
 US models announced April 16, 2002
 US models withdrawn effective August 2002

IBM® NetVista™ A22p (6343) - withdrawn

Name	Type-model	Color	Slot/bay	Processor	GHz ¹	L2 cache	Mem	Disk	CD-ROM	Graphics	Chipset	Ethernet	Preload	Available
A22p	6343-13U	Black	4x3	Pentium® 4	1.5GHz	256KB	128MB	20GB ²	CD-ROM	NVIDIA™ 16MB	845	10/100	Windows® 2000 ⁵	Oct 2001

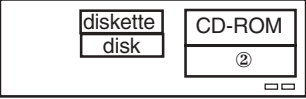
Positioning	<i>Leading edge technologies and affordable prices</i>		Desktop	
Processor	Intel® Pentium 4 1.5GHz with 400MHz¹ Front Side Bus		Small Form Factor	
L2 cache Implementation	256KB std and max / ECC / full speed Processor and L2 cache in FC-PGA2 in mPGA478B socket		Bay ① 3.5", SL 1", access, std diskette	
Memory - std/max	128MB std / 1GB max		Bay ② 5.25", HH 1.6", access, std CD-ROM	
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used		Bay ③ 3.5", SL 1", no access, std disk	
Memory - type	133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2)		Slot 1: Low Profile, 32-bit AGP 4X (1.5v) - used	
Graphics controller	<ul style="list-style-type: none"> • NVIDIA Vanta (2D and 3D) / AGP 4X adapter / TNT2 Vanta GPU / 16MB std and max 125MHz SDRAM / 250MHz RAMDAC / one analog DB-15 connector 		Slot 2: Low Profile, 32-bit PCI 2.2 (5v)	
Disk	ATA-100, 7200 rpm, SMART ³ III		Slot 3: Low Profile, 32-bit PCI 2.2 (5v)	
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH2)		Slot 4: Low Profile, 32-bit PCI 2.2 (5v)	
Diskette drive	3.5" 1.44MB diskette drive		<ul style="list-style-type: none"> • 14.2" W X 16.2"D X 4.1"H • 360mm W X 412mm D X 104mm H • 20.0 to 22.0 lb (9.1 to 10.0 kg) • Stealth black color • Bays 1 and 2/3 flip up (latched and pivoting) • Toolless rails for disk mounting • Toolless cover removal • Toolless AGP and PCI slots • Support for 100 lb monitor on top 	
CD-ROM	48X/20X ⁴ CD-ROM / bootable			
CD-RW	Option			
Cables	Two EIDE 80-conductor cables (one 1-drop cable to CD, one 1-drop cable to disk)			
Chipset	Intel 845 chipset / 82845 Memory Controller Hub (MCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / National® 87360 Super I/O for diskette, parallel, serial, keyboard, mouse		SYSTEMS MANAGEMENT <ul style="list-style-type: none"> • PC 2001-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0b • System Management BIOS • DMI 2.0-compliant • Wired for Management 2.0-compliant 	
Ports	<i>Front:</i> two USB (Version 1.1) <i>Back:</i> two 9-pin serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor		SECURITY <ul style="list-style-type: none"> • U bolt anchoring feature (U-bolt assembly is optional) • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control 	
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)			
Audio connectors	<i>Back:</i> microphone jack, line-in, line-out			
Speakers	None / requires optional powered speakers			
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN® / Intel Pro/100VE Desktop Connection			
Security chip	None			
Keyboard / mouse	106-key (rubber dome) keyboard / IBM 2-button mouse			
Cooling fans	Two or three variable speed fans (power supply, fansink, 1.9GHz and higher have third fan)			
Power supply	160 watts with variable speed fan / universal / manual switch		LIMITED WARRANTY*⁹ <ul style="list-style-type: none"> ⇨ 3 year parts / 1 year labor ⇨ International Warranty Service registration available⁹ ⇨ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ⇨ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ⇨ 3 year on site options available⁷: <ul style="list-style-type: none"> • Next day response, Mon-Fri 8-5 (ServicePac® part number 30L9199) • 4 hour response, Mon-Fri 8-5 (ServicePac part number 41L2732) • 4 hour response, 7 day x 24 hr (ServicePac part number 31L2724) ⇨ Post warranty maintenance services available ⇨ 24 hour x 7 day¹⁴ telephone, electronic, and Internet support 	
Preload with Windows 2000⁵	Options			
Microsoft® Windows 2000 Professional	64MB SDRAM 133MHz CL2 NP DIMM	10K0055		
Lotus SmartSuite license ⁶	128MB SDRAM 133MHz CL2 NP DIMM	10K0057		
Lotus Notes Client 5.0 license ⁶	256MB SDRAM 133MHz CL2 NP DIMM	10K0059		
- Disk-to-Disk Recovery (in Service Partition)	512MB SDRAM 133MHz CL2 NP DIMM	10K0061		
◇ Software Selections CD-ROM	2-Piece Speakers (black)	33L3440		
	3-Piece Speakers (black)	33L3441		
	40GB IDE Disk ATA-100 (5400 rpm)	22P7156		
	60GB IDE Disk ATA-100 (7200 rpm)	09N4207		
	IBM 16X ⁴ max DVD-ROM Drive (black)	22P6950		
	12X/8X/32X ⁴ Max CD-RW internal (black)	10K3785		
	8X/4X/32X/8X ⁴ Max CD-RW/DVD-ROM Combo drive (black)	10K3790		
	IBM DVD-RAM/DVD-R Drive (black)	22P6959		
	Zip Drive 250MB (white/black)	00N8078		
	IBM E94 19" (18.0" viewable) Monitor (blk)	633440N		
	IBM T540 15" Flat Panel Monitor (black)	9511AG4		
	IBM T560 15" Flat Panel Monitor (black)	6656HG2		
	IBM E74M 17" (15.9" view) Monitor (blk)	651767N		
	IBM Wireless keyboard and mouse (blk)	22P5170		
	IBM 675 Uninterruptable Power Supply	33L3448		
	IBM Optical 3-Button ScrollPoint® Mouse	33L3250		

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US model announced September 18, 2001; withdrawn effective December 2001

No warranties are expressed or implied in this summary
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IBM® NetVista™ A22p (6349) - withdrawn

Name	Type-model	Color	Slot/bay	Processor	GHz ¹	L2 cache	Mem	Disk	CD-ROM	Graphics	Chipset	Ethernet	Preload	Available
A22p	6349-11U	Black	4x4	Pentium® 4	1.5GHz	256KB	64MB	20GB ²	CD-ROM	NVIDIA™ 16MB	845	10/100	Windows® 98SE ⁵	Oct 2001
A22p	6349-17U	Black	4x4	Pentium 4	1.5GHz	256KB	128MB	20GB	CD-ROM	NVIDIA 16MB	845	10/100	Windows 2000	Oct 2001

Positioning	<i>Leading edge technologies and affordable prices</i>		Desktop																																																											
Processor	Intel® Pentium 4 1.5GHz with 400MHz¹ Front Side Bus		Bay ① 5.25", HH 1.6", access, std CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk	Slot 1: full-length, full-height, 32-bit AGP 4X (1.5v) - used Slot 2: full-length, full-height, 32-bit PCI 2.2 (5v) Slot 3: full-length, full-height, 32-bit PCI 2.2 (5v) Slot 4: full-length, full-height, 32-bit PCI 2.2 (5v)																																																										
L2 cache Implementation	256KB std and max / ECC / full speed Processor and L2 cache in FC-PGA2 in mPGA478B socket																																																													
Memory - std/max	64MB or 128MB std / 1.5GB max		• 16.7" W X 16.7" D X 5.5" H • 425mm W X 425mm D X 140mm H • 24 to 26.5 lb (10.9 to 12.0 kg) • Stealth black color • Bay 1 and 2 in cage flips up (latched and pivoting) • Bay 3 and 4 in cage flips up (latched and pivoting) • Toolless rails for disk mounting • Toolless cover removal • Toolless AGP and PCI slots	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> • PC 2001-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0b • System Management BIOS • DMI 2.0-compliant • Wired for Management 2.0-compliant 																																																										
Memory - sockets	Three 168-pin gold plated DIMM sockets / one socket used																																																													
Memory - type	133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2)																																																													
Graphics controller	• NVIDIA Vanta (2D and 3D) / AGP 4X adapter / TNT2 Vanta GPU / 16MB std and max 125MHz SDRAM / 250MHz RAMDAC / one analog DB-15 connector																																																													
Disk	ATA-100, 7200 rpm, SMART ³ III		SECURITY <ul style="list-style-type: none"> • U bolt anchoring feature (U-bolt assembly is optional) • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control 	LIMITED WARRANTY*⁹ <ul style="list-style-type: none"> ↔ 3 year parts / 1 year labor ↔ International Warranty Service registration available⁹ ↔ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ↔ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ↔ 3 year on site options available⁷: <ul style="list-style-type: none"> • Next day response, Mon-Fri 8-5 (ServicePac® part number 30L9199) • 4 hour response, Mon-Fri 8-5 (ServicePac part number 41L2732) • 4 hour response, 7 day x 24 hr (ServicePac part number 31L2724) ↔ Post warranty maintenance services available ↔ 24 hour x 7 day¹⁴ telephone, electronic, and Internet support 																																																										
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH2)																																																													
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Ports	Front: two USB (Version 1.1) Back: two 9-pin serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor																																																													
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)																																																													
Audio connectors	Back: microphone jack, line-in, line-out																																																													
Speakers	None / requires optional powered speakers																																																													
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN® / Intel Pro/100VE Desktop Connection																																																													
Security chip	None																																																													
Keyboard / mouse	106-key (rubber dome) keyboard / IBM 2-button mouse																																																													
Cooling fans	Two or three variable speed fans (power supply, fansink, 1.6GHz and higher have rear fan)																																																													
Power supply	185 watts with variable speed fan / universal / manual switch																																																													
Preload with Windows 2000⁵	Options <table border="0"> <tr> <td>Microsoft® Windows® 2000 Professional</td> <td>64MB SDRAM 133MHz CL2 NP DIMM</td> <td>10K0055</td> </tr> <tr> <td>Lotus® SmartSuite® license⁶</td> <td>128MB SDRAM 133MHz CL2 NP DIMM</td> <td>10K0057</td> </tr> <tr> <td>Lotus Notes® Client 5.0 license⁶</td> <td>256MB SDRAM 133MHz CL2 NP DIMM</td> <td>10K0059</td> </tr> <tr> <td>- Disk-to-Disk Recovery (in Service Partition)</td> <td>512MB SDRAM 133MHz CL2 NP DIMM</td> <td>10K0061</td> </tr> <tr> <td>↔ Software Selections CD-ROM</td> <td>2-Piece Speakers (black)</td> <td>33L3440</td> </tr> <tr> <td></td> <td>3-Piece Speakers (black)</td> <td>33L3441</td> </tr> <tr> <td></td> <td>40GB IDE Disk ATA-100 (5400 rpm)</td> <td>22P7156</td> </tr> <tr> <td></td> <td>60GB IDE Disk ATA-100 (7200 rpm)</td> <td>09N4207</td> </tr> <tr> <td></td> <td>IBM 16X⁴ max DVD-ROM Drive (black)</td> <td>22P6950</td> </tr> <tr> <td></td> <td>12X/8X/32X⁴ Max CD-RW internal (black)</td> <td>10K3785</td> </tr> <tr> <td></td> <td>8X/4X/32X/8X⁴ Max CD-RW/DVD-ROM Combo drive (black)</td> <td>10K3790</td> </tr> <tr> <td></td> <td>IBM DVD-RAM/DVD-R Drive (black)</td> <td>22P6959</td> </tr> <tr> <td></td> <td>Zip Drive 250MB (white/black)</td> <td>00N8078</td> </tr> <tr> <td></td> <td>IBM E94 19" (18.0" viewable) Monitor (blk)</td> <td>633440N</td> </tr> <tr> <td></td> <td>IBM T540 15" Flat Panel Monitor (black)</td> <td>9511AG4</td> </tr> <tr> <td></td> <td>IBM T560 15" Flat Panel Monitor (black)</td> <td>6656HG2</td> </tr> <tr> <td></td> <td>IBM E74M 17" (15.9" view) Monitor (blk)</td> <td>651767N</td> </tr> <tr> <td></td> <td>IBM Wireless keyboard and mouse (blk)</td> <td>22P5170</td> </tr> <tr> <td></td> <td>IBM 675 Uninterruptable Power Supply</td> <td>33L3448</td> </tr> <tr> <td></td> <td>IBM Optical 3-Button ScrollPoint® Mouse</td> <td>33L3250</td> </tr> </table>		Microsoft® Windows® 2000 Professional	64MB SDRAM 133MHz CL2 NP DIMM	10K0055	Lotus® SmartSuite® license ⁶	128MB SDRAM 133MHz CL2 NP DIMM	10K0057	Lotus Notes® Client 5.0 license ⁶	256MB SDRAM 133MHz CL2 NP DIMM	10K0059	- Disk-to-Disk Recovery (in Service Partition)	512MB SDRAM 133MHz CL2 NP DIMM	10K0061	↔ Software Selections CD-ROM	2-Piece Speakers (black)	33L3440		3-Piece Speakers (black)	33L3441		40GB IDE Disk ATA-100 (5400 rpm)	22P7156		60GB IDE Disk ATA-100 (7200 rpm)	09N4207		IBM 16X ⁴ max DVD-ROM Drive (black)	22P6950		12X/8X/32X ⁴ Max CD-RW internal (black)	10K3785		8X/4X/32X/8X ⁴ Max CD-RW/DVD-ROM Combo drive (black)	10K3790		IBM DVD-RAM/DVD-R Drive (black)	22P6959		Zip Drive 250MB (white/black)	00N8078		IBM E94 19" (18.0" viewable) Monitor (blk)	633440N		IBM T540 15" Flat Panel Monitor (black)	9511AG4		IBM T560 15" Flat Panel Monitor (black)	6656HG2		IBM E74M 17" (15.9" view) Monitor (blk)	651767N		IBM Wireless keyboard and mouse (blk)	22P5170		IBM 675 Uninterruptable Power Supply	33L3448		IBM Optical 3-Button ScrollPoint® Mouse	33L3250
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* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US models announced September 18, 2001; withdrawn effective December 2001

No warranties are expressed or implied in this summary
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Name	Type-model	Color	Slot/bay	Processor	GHz	L2 cache	Mem	Disk	RPM	Optical	Graphics	Chipset	Preload	Available
A22p	6350-11U	Black	4x5	Pentium® 4	1.5GHz	256KB	64MB	20GB ²	7200	CD-ROM	NVIDIA™ 16MB	845	Windows® 98 SE ⁵	Oct 2001
A22p	6350-13U	Black	4x5	Pentium 4	1.5GHz	256KB	128MB	20GB	7200	CD-ROM	NVIDIA 16MB	845	Windows 2000	Oct 2001
A22p	6350-15U	Black	4x5	Pentium 4	1.5GHz	256KB	128MB	20GB	7200	CD-ROM	NVIDIA 16MB	845	Windows XP Pro	Nov2001
A22p	6350-25U	Black	4x5	Pentium 4	1.6GHz	256KB	128MB	20GB	7200	CD-ROM	NVIDIA 16MB	845	Windows XP Pro	Nov2001
A22p	6350-26U	Black	4x5	Pentium 4	1.6GHz	256KB	128MB	40GB	7200	CD-RW	NVIDIA 16MB	845	Windows XP Pro	Nov2001
A22p	6350-35U	Black	4x5	Pentium 4	1.8GHz	256KB	128MB	40GB	7200	CD-RW	NVIDIA 16MB	845	Windows XP Pro	Nov2001
A22p	6350-36U	Black	4x5	Pentium 4	1.8GHz	256KB	128MB	20GB	7200	CD-ROM	NVIDIA 16MB	845	Windows 2000	Feb 2002
A22p	6350-37U	Black	4x5	Pentium 4	1.8GHz	256KB	128MB	20GB	7200	CD-ROM	NVIDIA 16MB	845	Windows XP Pro	Feb 2002
A22p	6350-51U	Black	4x5	Pentium 4	2.0GHz	512KB	256MB	40GB	7200	CD-RW	Radeon 64MB	845	Windows XP Pro	Feb 2002
A22p	6350-61U	Black	4x5	Pentium 4	2.2GHz	512KB	256MB	80GB	7200	Combo	Radeon 64MB	845	Windows XP Pro	Feb 2002

Positioning Processor	<i>Leading edge technologies and affordable prices</i> Intel® Pentium 4 at 1.5, 1.6, 1.8, 2.0, or 2.2GHz with 400MHz frontside bus		Micro Tower <ul style="list-style-type: none"> 7.5" W X 15.7" D X 16.3" H 190mm W X 399mm D X 415mm H 22.5 to 29.5 lb (10.2 to 13.4 kg) Stealth black color Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots 	
L2 cache Implementation	256KB or 512KB std and max / ECC / full speed Processor and L2 cache in FC-PGA2 in mPGA478B socket			
Memory - std/max	64MB or 128MB or 256MB std / 1.5GB max		Bay ① 5.25", HH 1.6", access, std CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, std disk	
Memory - sockets	Three 168-pin gold-plated DIMM sockets / one socket used			
Memory - type	133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2) / supports optional ECC		Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v) - used Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v)	
Graphics controller	<ul style="list-style-type: none"> NVIDIA Vanta (2D and 3D) / AGP 4X adapter / TNT2 Vanta GPU / 16MB std and max 125MHz SDRAM / 250MHz RAMDAC / one analog DB-15 connector ATI® Radeon 7000 (advanced 3D) / AGP 4X adapter / Radeon VE (RV100) GPU / 64MB std and max 155MHz SDRAM / 300MHz RAMDAC / one analog DB-15 connector 			
Disk	ATA-100, 7200 rpm, SMART ³ III		SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b System Management BIOS DMI 2.0-compliant Wired for Management 2.0-compliant 	
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH2)			
Diskette drive	3.5" 1.44MB diskette drive			
CD-ROM	<i>Some models:</i> 48X-20X ⁴ CD-ROM / bootable			
CD-RW	<i>Some models:</i> 16X/10X/40X Max ⁴ CD-RW / bootable			
CD-RW/DVD combo	<i>Some models:</i> 8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo			
Cables	Two EIDE 80-conductor cables (one 2-drop cable to CD, one 1-drop cable to disk)			
Chipset	Intel 845 chipset / 82845 Memory Controller Hub (MCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / National® 87360 Super I/O for diskette, parallel, serial, keyboard, mouse			
Ports	<i>Front:</i> two USB (Version 1.1) <i>Back:</i> two 9-pin serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor			
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)			
Audio connectors	<i>Back:</i> microphone jack, line-in, line-out			
Speakers	None / requires optional powered speakers			
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN® / Intel Pro/100VE Desktop Connection			
Security chip	None			
Keyboard / mouse	106-key (rubber dome) keyboard / IBM 2-button mouse			
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)			
Power supply	185 watts with variable speed fan / universal / manual switch			
Preload with Windows 2000⁵	Options 64MB SDRAM 133MHz CL2 NP DIMM 10K0055 128MB SDRAM 133MHz CL2 NP DIMM 10K0057 256MB SDRAM 133MHz CL2 NP DIMM 10K0059 512MB SDRAM 133MHz CL2 NP DIMM 10K0061 2-Piece Speakers (black) 33L3440 3-Piece Speakers (black) 33L3441 40GB IDE Disk ATA-100 (5400 rpm) 22P7156 60GB IDE Disk ATA-100 (7200 rpm) 09N4207 IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950 40X/12X/40X Max ⁴ CD-RW internal (blk) 22P6976 8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 10K3790 IBM DVD-RAM/DVD-R Drive (black) 22P6959 IBM E94 19" (18.0" viewable) Monitor (blk) 633440N IBM T540 15" Flat Panel Monitor (black) 9511AG4 IBM T560 15" Flat Panel Monitor (black) 6656HG2 IBM E74M 17" (15.9" view) Monitor (blk) 651767N IBM Wireless keyboard and mouse (blk) 22P5170 IBM 675 Uninterruptable Power Supply 33L3478 IBM Optical 3-Button ScrollPoint® Mouse 33L3250 Other options at ibm.com/pc/us/accessories			
Microsoft® Windows® 2000 Professional	Lotus® SmartSuite® license ⁶			
Lotus Notes® Client 5.0 license ⁶	-			
- Disk-to-Disk Recovery (in Service Partition)	-			
Software Selections CD-ROM	-			
Preload with Windows 98SE⁵	Microsoft Windows 98 Second Edition Lotus SmartSuite license ⁶ Lotus Notes Client 5.0 license ⁶ - Disk-to-Disk Recovery (in Service Partition) Software Selections CD-ROM			
Preload with Windows XP Professional⁵	Microsoft Windows XP Professional Lotus SmartSuite® license ⁶ Lotus Notes Client 5.0 license ⁶ - Disk-to-Disk Recovery (in Service Partition) Software Selections CD-ROM			
LIMITED WARRANTY¹	⇨ 3 year parts / 1 year labor ⇨ International Warranty Service ⁹ ⇨ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ⇨ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ⇨ 3 year on site options available ⁷ : • Next day response, Mon-Fri 8-5 (ServicePac® part number 30L9199) • 4 hour response, Mon-Fri 8-5 (ServicePac part number 41L2732) • 4 hour response, 7 day x 24 hr (ServicePac part number 31L2724) ⇨ Post warranty maintenance services available ⇨ 24x7 ¹⁴ toll-free support for warranty issues during the warranty period ¹			

See footnotes for important warranty information
 US models announced January 22, 2002; previous models on Sept 18 and Nov 27, 2001
 US models withdrawn effective March, July, or August 2002

Name	Type-model	Slot/bay	Processor	GHz	L2 cache	Mem	Disk	RPM	Optical	Graphics	Modem	FireWire	Preload	Suite	Available
A22p	6823-91U	4x5	Pentium® 4	1.5GHz	256KB	128MB	20GB ²	Value	CD-ROM	NVIDIA™ 16MB	Mod		XP Home ⁵	Works	Oct 2001
A22p	6823-11U	4x5	Pentium 4	1.6GHz	256KB	128MB	40GB	Value	Combo	NVIDIA 32MB	Mod		XP Home	Works	Oct 2001
A22p	6823-12U	4x5	Pentium 4	1.6GHz	256KB	128MB	40GB	Value	CD-RW	NVIDIA 32MB	Mod	1394	XP Home	Works	Oct 2001
A22p	6823-21U	4x5	Pentium 4	1.8GHz	256KB	128MB	40GB	7200	CD-RW	NVIDIA 32MB	Mod	1394	XP Home	Works	Oct 2001
A22p	6823-22U	4x5	Pentium 4	1.8GHz	256KB	256MB	80GB	7200	Combo	NVIDIA 32MB out	Mod	1394	XP Home	Works	Oct 2001
A22p	6823-31U	4x5	Pentium 4	2.0GHz	256KB	256MB	80GB	7200	Combo	NVIDIA 32MB out	Mod	1394	XP Home	Works	Oct 2001
A22p	6823-3CU	4x5	Pentium 4	2.0GHz	512KB	256MB	80GB	7200	Combo	NVIDIA 32MB out	Mod	1394	XP Home	Works	Feb 2002

Positioning Processor	<i>Leading edge technologies and affordable prices</i> Intel® Pentium 4 at 1.5, 1.6, 1.8, 2.0GHz with 400MHz frontside bus										Micro Tower		
L2 cache Implementation	256KB or 512KB std and max / ECC / full speed Processor and L2 cache in FC-PGA2 in mPGA478B socket										<ul style="list-style-type: none"> Stealth black color 7.5" W X 15.7"D X 16.3"H 190mm W X 399mm D X 415mm H 22.5 to 29.5 lb (10.2 to 13.4 kg) Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots 		
Memory - std/max	128MB or 256MB std / 1.5GB max										Bay ① 5.25", HH 1.6", access, std optical drive Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, std disk		
Memory - sockets	Three 168-pin gold-plated DIMM sockets / one socket used										Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v) - used Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) - modem Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v) - FireWire** Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v) ** in some models		
Memory - type	133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2)												
Graphics controller (one of following)	<ul style="list-style-type: none"> NVIDIA Vanta (2D and 3D) / AGP 4X adapter / TNT2 Vanta GPU / 16MB std and max 125MHz SDRAM / 250MHz RAMDAC / one analog DB-15 connector NVIDIA GeForce2 MX (advanced 3D) / AGP 4X adapter / GeForce2 MX GPU / 32MB std and max 166MHz SDRAM / 350MHz RAMDAC / one analog DB-15 connector NVIDIA GeForce2 MX VGA/DVI/TV / AGP 4X adapter / GeForce2 MX GPU / 32MB std and max 166MHz SDRAM / connectors: analog DB-15, digital DVI-D, S-video out (single head) 												
Disk	ATA-100, SMART ³ III												
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH2)												
Diskette drive	3.5" 1.44MB diskette drive												
CD-ROM	Some models: 48X-20X ⁴ CD-ROM / bootable												
CD-RW	Some models: 16X/10X/40X Max ⁴ CD-RW / ATAPI / bootable												
CD-RW/DVD combo	Some models: 8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo												
Cables	Two EIDE 80-conductor cables (one 2-drop cable to CD, one 1-drop cable to disk)												

Chipset	Intel 845 chipset / 82845 Memory Controller Hub (MCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / National® 87360 Super I/O for diskette, parallel, serial, keyboard, mouse										SYSTEMS MANAGEMENT	
Ports	<i>Front:</i> two USB (Version 1.1), microphone in, headphone out; <i>Firewire models:</i> IEEE 1394 front port <i>Back:</i> two 9-pin serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor										<ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b System Management BIOS DMI 2.0-compliant Wired for Management 2.0-compliant 	
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)										SECURITY	
Audio connectors	Back: microphone jack, line-in, line-out										<ul style="list-style-type: none"> U bolt anchoring feature (U-bolt assembly is optional) Padlock support (user supplied lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control 	
Speakers	External active speakers / Jazz Infinity® / 2-piece / 3.5 watts / black color											
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN® / Intel Pro/100VE Desktop Connection											
Modem	56K ¹⁰ data/fax modem / Conexant® chipset / controllerless HCF modem / PCI adapter											
1394 FireWire	Some models: FireWire PCI adapter / 1394A / 400Mbps / dual 6-pin ports on rear / includes 4-pin port on front of system / no cables included											
Security chip	None											
Keyboard / mouse	IBM Rapid Access™ IIIe Keyboard (USB / no USB hub or ports) / IBM ScrollPoint® III mouse (USB)										LIMITED WARRANTY¹	
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)										<ul style="list-style-type: none"> 3 year parts / 1 year labor International Warranty Service⁹ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time 2nd/3rd year: parts exchange only, call 1-800-772-2227 3 year on site warranty service upgrade options⁷: <ul style="list-style-type: none"> Next day response, Mon-Fri 8-5 (ServicePac® part number 30L9199) 4 hour response, Mon-Fri 8-5 (ServicePac part number 41L2732) 4 hour response, 7 day x 24 hr (ServicePac part number 31L2724) Post warranty maintenance services available 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ 	
Power supply	185 watts with variable speed fan / universal / manual switch											

Preload with Windows XP Home ⁵	Options	
Microsoft® Windows XP Home Edition	64MB SDRAM 133MHz CL2 NP DIMM	10K0055
- Lotus SmartSuite license ⁶	128MB SDRAM 133MHz CL2 NP DIMM	10K0057
- Disk-to-Disk Recovery (in Service Partition)	256MB SDRAM 133MHz CL2 NP DIMM	10K0059
◇ Software Selections CD-ROM	512MB SDRAM 133MHz CL2 NP DIMM	10K0061
- Microsoft Works Suite 2001 (Word 2000, Works 6.0, Encarta® Encyclopedia Standard 2001, Money 2001, Picture It!® Publishing 2001, Streets & Trips 2001, Outlook® Express)	3-Piece Speakers (black)	33L3441
	40GB IDE Disk ATA-100 (5400 rpm)	22P7156
	60GB IDE Disk ATA-100 (7200 rpm)	09N4207
	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
	12X/8X/32X Max ⁴ CD-RW internal (black)	10K3785
	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	10K3790
	IBM DVD-RAM/DVD-R Drive (black)	22P6959
	Zip Drive 250MB (white/black)	00N8078
	IBM E94 19" (18.0" viewable) Monitor (blk)	633440N
	IBM T540 15" Flat Panel Monitor (black)	9511AG4
	IBM T560 15" Flat Panel Monitor (black)	6656HG2
	IBM E74M 17" (15.9" view) Monitor (blk)	651767N
	IBM 675 Uninterruptable Power Supply	33L3478
	IBM Optical 3-Button ScrollPoint® Mouse	33L3250
	Other options at ibm.com/pc/us/accessories	

See footnotes for important warranty information
US model announced January 22, 2002; previous models on September 18, 2001
US models withdrawn effective March, July, or August 2002

Name	Type-model	Slots x bays	Processor	GHz	Mem	Disk	RPM	Optical	Graphics	Ethernet	Modem	Preload	Available date
A22p	2292-13U	4x5	Pentium® 4	1.5GHz	128MB	20GB ²	7200	CD-ROM	NVIDIA™ 16MB	10/100	Modem	Windows® XP Home ⁵	Oct 2001
A22p	2292-21U	4x5	Pentium 4	1.6GHz	128MB	40GB	7200	CD-RW	NVIDIA 32MB	10/100	Modem	Windows XP Home	Oct 2001
A22p	2292-33U	4x5	Pentium 4	1.8GHz	128MB	20GB	7200	CD-ROM	NVIDIA 16MB	10/100	Modem	Windows XP Home	Oct 2001

Positioning	<i>Leading edge technologies and affordable prices</i>		
Processor	Intel® Pentium 4 1.5, 1.6, 1.8GHz with 400MHz frontside bus		
L2 cache	256KB std and max / ECC / full speed		
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket		
Memory - std/max	128MB std / 1.5GB max		
Memory - sockets	Three 168-pin gold-plated DIMM sockets / one socket used		
Memory - type	133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2)		
Graphics controller	<ul style="list-style-type: none"> NVIDIA Vanta (2D and 3D) / AGP 4X adapter / TNT2 Vanta GPU / 16MB std and max 125MHz SDRAM / 250MHz RAMDAC / one analog DB-15 connector NVIDIA GeForce2 MX (advanced 3D) / AGP 4X adapter / GeForce2 MX GPU / 32MB std and max 166MHz SDRAM / 350MHz RAMDAC / one analog DB-15 connector 		
Disk	ATA-100, 7200 rpm, SMART ³ III		
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH2)		
Diskette drive	3.5" 1.44MB diskette drive		
CD-ROM	<i>Some models:</i> 48X-20X ⁴ CD-ROM / bootable		
CD-RW	<i>Some models:</i> 16X/10X/40X Max ⁴ CD-RW / ATAPI / bootable		
CD-RW/DVD combo	Optional		
Cables	Two EIDE 80-conductor cables (one 2-drop cable to CD, one 1-drop cable to disk)		
Chipset	Intel 845 chipset / 82845 Memory Controller Hub (MCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / National® 87360 Super I/O for diskette, parallel, serial, keyboard, mouse		
Ports	<i>Front:</i> two USB (Version 1.1), microphone in, headphone out; <i>Back:</i> two 9-pin serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor		
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)		
Audio connectors	<i>Back:</i> microphone jack, line-in, line-out		
Speakers	External active speakers / Jazz Infinity® / 2-piece / 3 watts per channel / blk color		
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN® / Intel Pro/100VE Desktop Connection		
Modem	56K¹⁰ data/fax modem / Conexant® chipset / controllerless HCF modem / PCI adapter		
IEEE 1394 (FireWire)	Optional PCI adapter		
Security chip	None		
Keyboard / mouse	IBM Rapid Access™ IIIe Keyboard (USB / no USB hub or ports) / IBM ScrollPoint® III mouse (USB)		
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)		
Power supply	185 watts with variable speed fan / universal / manual switch		
Preload with Windows XP Home⁵ Microsoft® Windows XP Home Edition Lotus® SmartSuite® Millennium license ⁶ - Disk-to-Disk Recovery (in Service Partition) ◇ Software Selections CD-ROM - Microsoft Works Suite 2001 (Word 2000, Works 6.0, Encarta® Encyclopedia Standard 2001, Money 2001, Picture It!® Publishing 2001, Streets & Trips 2001, Outlook® Express)			Options 64MB SDRAM 133MHz CL2 NP DIMM 10K0055 128MB SDRAM 133MHz CL2 NP DIMM 10K0057 256MB SDRAM 133MHz CL2 NP DIMM 10K0059 512MB SDRAM 133MHz CL2 NP DIMM 10K0061 3-Piece Speakers (black) 33L3441 40GB IDE Disk ATA-100 (5400 rpm) 22P7156 60GB IDE Disk ATA-100 (7200 rpm) 09N4207 IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950 12X/8X/32X Max ⁴ CD-RW internal (black) 10K3785 8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 10K3790 IBM DVD-RAM/DVD-R Drive (black) 22P6959 Zip Drive 250MB (white/black) 00N8078 IBM E94 19" (18.0" viewable) Monitor (blk) 633440N IBM T540 15" Flat Panel Monitor (black) 9511AG4 IBM T560 15" Flat Panel Monitor (black) 6656HG2 IBM E74M 17" (15.9" view) Monitor (blk) 651767N IBM Wireless keyboard and mouse (blk) 22P5170 IBM 675 Uninterruptable Power Supply 33L3478 IBM Optical 3-Button ScrollPoint® Mouse 31P7405
SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b System Management BIOS DMI 2.0-compliant Wired for Management 2.0-compliant 			
SECURITY <ul style="list-style-type: none"> U bolt anchoring feature (U-bolt assembly is optional) Padlock support (user supplied lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control 			
LIMITED WARRANTY¹ ⇨ 1 year parts and labor ⇨ On site, 8 am - 5 pm, Mon - Fri, 2nd business day response time ⇨ On site service upgrade options (in eligible locations)⁷: <ul style="list-style-type: none"> 1 year 9x5 4 hour response (ServicePac® part number 54P1858) 2 year 9x5 Next Business Day (ServicePac part number 54P1859) 2 year 9x5 4 hour response (ServicePac part number 54P1860) 3 year 9x5 Next Business Day (ServicePac part number 54P1861) 3 year 9x5 4 hour response (ServicePac part number 54P1862) ⇨ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹			

See footnotes for important warranty information
 US models announced September 18, 2001
 US models withdrawn effective March 2002, July 2002, or August 2003

Type-model	Slotx bay	Processor	GHz	L2 cache	Mem	Disk	RPM	Optical	Graphics	Preload	Small Business Software	Available
6825-11U	4x5	Pentium® 4	1.6GHz	256KB	128MB	40GB ²	Value	CD-RW	NVIDIA™ 16MB	Windows® XP Home ⁵	XP Office SB ²⁸	Oct 2001
6825-12U	4x5	Pentium 4	1.6GHz	256KB	128MB	20GB	Value	CD-RW	NVIDIA 16MB	Windows XP Home	XP Office SB	Oct 2001
6825-21U	4x5	Pentium 4	1.8GHz	256KB	128MB	40GB	7200	Combo	GeForce232MB	Windows 2000	XP Office SB	Oct 2001
6825-22U	4x5	Pentium 4	1.8GHz	256KB	128MB	40GB	Value	CD-RW	NVIDIA 16MB	Windows XP Home	XP Office SB	Oct 2001
6825-24U	4x5	Pentium 4	1.8GHz	256KB	256MB	40GB	7200	CD-RW	GeForce232MB	Windows XP Pro	XP Office SB	Feb 2002
6825-31U	4x5	Pentium 4	2.0GHz	256KB	128MB	80GB	7200	Combo	GeForce232MB	Windows XP Pro	XP Office SB	Oct 2001
6825-32U	4x5	Pentium 4	2.0GHz	512KB	128MB	80GB	7200	Combo	GeForce232MB	Windows XP Pro	XP Office SB	Feb 2002

Positioning	<i>Leading edge technologies and affordable prices; small business software models</i>		Micro Tower <ul style="list-style-type: none"> Stealth black color 7.5" W X 15.7"D X 16.3"H 190mm W X 399mm D X 415mm H 22.5 to 29.5 lb (10.2 to 13.4 kg) Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots 	
Processor	Intel® Pentium 4 at 1.6, 1.8, 2.0GHz with 400MHz frontside bus			
L2 cache	256KB or 512KB std and max / ECC / full speed			
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket			
Memory - std/max	128MB or 256MB std / 1.5GB max			
Memory - sockets	Three 168-pin gold plated DIMM sockets / one socket used			
Memory - type	133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2) / supports optional ECC			
Graphics controller (one of the following)	<ul style="list-style-type: none"> NVIDIA Vanta (2D and 3D) / AGP 4X adapter / TNT2 Vanta GPU / 16MB std and max 125MHz SDRAM / 250MHz RAMDAC / one analog DB-15 connector NVIDIA GeForce2 MX (advanced 3D) / AGP 4X adapter / GeForce2 MX GPU / 32MB std and max 166MHz SDRAM / 350MHz RAMDAC / one analog DB-15 connector 		Bay ① 5.25", HH 1.6", access, std optical drive Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, std disk Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v) - used Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v)	
Disk	ATA-100, SMART ³ III			
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH2)			
Diskette drive	3.5" 1.44MB diskette drive			
CD-RW	<i>Some models</i> 16X/10X/40X Max ⁴ CD-RW / ATAPI / bootable			
CD-RW/DVD combo	<i>Some models:</i> 8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo			
Cables	Two EIDE 80-conductor cables (one 2-drop cable to CD, one 1-drop cable to disk)			
Chipset	Intel 845 chipset / 82845 Memory Controller Hub (MCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / National® 87360 Super I/O for diskette, parallel, serial, keyboard, mouse		SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b System Management BIOS DMI 2.0-compliant Wired for Management 2.0-compliant 	
Ports	<i>Front:</i> two USB (Version 1.1) <i>Back:</i> two 9-pin serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor			
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)		SECURITY <ul style="list-style-type: none"> U bolt anchoring feature (U-bolt assembly is optional) Padlock support (user supplied lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control 	
Audio connectors	<i>Back:</i> microphone jack, line-in, line-out			
Speakers	One internal speaker for business audio			
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN® / Intel Pro/100VE Desktop Connection			
Security chip	None			
Keyboard / mouse	106-key (rubber dome) keyboard / IBM 2-button mouse			
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)			
Power supply	185 watts with variable speed fan / universal / manual switch			
Preload with Windows 2000⁵	Options		LIMITED WARRANTY¹ <ul style="list-style-type: none"> 3 year parts / 1 year labor International Warranty Service registration available⁹ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time 2nd/3rd year: parts exchange only, call 1-800-772-2227 3 year on site warranty service upgrade options⁷: <ul style="list-style-type: none"> Next day response, Mon-Fri 8-5 (ServicePac® part number 30L9199) 4 hour response, Mon-Fri 8-5 (ServicePac part number 41L2732) 4 hour response, 7 day x 24 hr (ServicePac part number 31L2724) 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ 	
Microsoft® Windows 2000 Professional	64MB SDRAM 133MHz CL2 NP DIMM 10K0055			
Preload with Windows XP Home⁵	128MB SDRAM 133MHz CL2 NP DIMM 10K0057			
Microsoft® Windows® XP Home Edition	256MB SDRAM 133MHz CL2 NP DIMM 10K0059			
Preload with Windows XP Professional⁵	512MB SDRAM 133MHz CL2 NP DIMM 10K0061			
Microsoft® Windows® XP Professional	2-Piece Speakers (black) 33L3440			
All models	3-Piece Speakers (black) 33L3441			
Lotus SmartSuite license ⁶	40GB IDE Disk ATA-100 (5400 rpm) 22P7156			
Lotus Notes Client 5.0 license ⁶	60GB IDE Disk ATA-100 (7200 rpm) 09N4207			
- Disk-to-Disk Recovery (in Service Partition)	IBM 16X ⁴ max DVD-ROM Drive (black) 22P6950			
Software Selections CD-ROM	40X/12X/40X Max ⁴ CD-RW internal (blk) 22P6976			
- Microsoft Office XP Small Business ²⁸ (Word, Excel, Outlook, Publisher, Small Business Tools)	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 10K3790			
Office XP Small Business CD-ROM	IBM DVD-RAM/DVD-R Drive (black) 22P6959			
	Zip Drive 250MB (white/black) 00N8078			
	IBM E94 19" (18.0" viewable) Monitor (blk) 633440N			
	IBM T540 15" Flat Panel Monitor (black) 9511AG4			
	IBM T560 15" Flat Panel Monitor (black) 6656HG2			
	IBM E74M 17" (15.9" view) Monitor (blk) 651767N			
	IBM Wireless keyboard and mouse (blk) 22P5170			
	IBM 675 Uninterruptable Power Supply 33L3478			
	IBM Optical 3-Button ScrollPoint® Mouse 33L3250			
	Other options at ibm.com/pc/us/accessories			

See footnotes for important warranty information
 US models announced January 22, 2002; previous models on September 18, 2001
 US models withdrawn effective March, July, or August 2002

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁶	EIDE disk GB ⁷ rpm	Optical	Graphics	Security chip	Ethernet	Preload	Available date
A30p	8310-14U	4x5	Pentium® 4	1.8	256KB	400	128MB	40GB Value	CD-ROM	Extreme™ GMCH		10/100	XP Pro ⁵	Jun 02
A30p	8310-1AU	4x5	Pentium 4	1.8	256KB	400	128MB	40GB Value	CD-ROM	Extreme GMCH		10/100	2000	Jun 02
A30p	8310-26U	4x5	Pentium 4	2.0	512KB	400	128MB	40GB Value	CD-ROM	Extreme GMCH		10/100	XP Pro	Jun 02
A30p	8310-27U	4x5	Pentium 4	2.0	512KB	400	128MB	40GB Value	CD-ROM	Extreme GMCH		10/100	2000	Jun 02
A30p	8310-36U	4x5	Pentium 4	2.26	512KB	533	128MB	80GB 7200	CD-RW	Radeon 7000 64MB		10/100	XP Pro	Jun 02
A30p	8310-38U	4x5	Pentium 4	2.26	512KB	533	256MB	80GB 7200	Combo	Radeon 7000 64MB		10/100	XP Pro	Jun 02
A30p	8310-47U	4x5	Pentium 4	2.4	512KB	533	256MB	120GB 7200	Combo	Ti 4200 128MB out		10/100	XP Pro	Jun 02
A30p	8310-29U	4x5	Pentium 4	2.0	512KB	400	128MB	40GB 7200	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	Jun 02
A30p	8310-3AU	4x5	Pentium 4	2.26	512KB	533	128MB	40GB Value	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	Jun 02

Positioning *Great technology and affordable prices*
 Processor **Intel® Pentium 4 at 1.8, 2.0, 2.26, 2.4GHz** with 400 or 533MHz FSB
 L2 cache **256 or 512KB** std and max / ECC / full speed
 Implementation Processor and L2 cache in FC-PGA2 in mPGA478B socket

Memory - std/max⁸ **128MB or 256MB std / 1GB max**
 Memory - sockets Two 184-pin gold plated DIMM sockets / one socket used
 Memory - type **PC2100 266MHz DDR-SDRAM** / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)

Graphics controller (one of following)

- **Integrated Intel Extreme™ Graphics** / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector
- **ATI Radeon 7000** / AGP 4X adapter / Radeon GPU / **64MB** std and max 332MHz DDR-SDRAM / 300MHz RAMDAC / one analog DB-15 connector
- **NVIDIA® GeForce4™ Ti 4200** / AGP 4X adapter / GeForce4 Ti GPU / **128MB** std and max 444MHz DDR-SDRAM / 350MHz RAMDAC / three connectors: analog DB-15, digital DVI-D, S-Video out for TV-out (but single head [not dual head])

Disk **40, 80, or 120GB**, ATA-100, rubber vibration dampening mounts
 Disk controller Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)
 Diskette drive 3.5" 1.44MB diskette drive
 Optical *One of following:* 48X-20X⁴ CD-ROM, 40X/12X/40X Max⁴ CD-RW, 8X/4X/32X/8X Max¹¹ CD-RW/DVD-ROM Combo

Cables Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop cable to disk)

Chipset **Intel 845G chipset** / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse

Ports *Front:* two USB (Version 2.0)
Back: four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)

Audio Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec

Audio connectors *Back:* microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]

Beeper One internal beeper

Ethernet 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN®

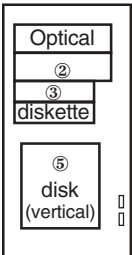
Security chip *Some:* **IBM Embedded Security Subsystem 2.0¹⁸** / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security¹⁶ / T CPA-compliant

Keyboard / mouse 104-key IBM Preferred Pro Full-size keyboard / IBM Std 2-Button PS/2 Mouse

Cooling fans Three variable speed fans (power supply, fansink, rear fan)
 Power supply 185 watts with variable speed fan / universal / manual switch

Tower

- 7.5" W X 15.7"D X 16.3"H
- 190mm W X 399mm D X 415mm H
- 22.5 to 29.5 lb (10.2 to 13.4 kg)
- Stealth black color
- Handle on top front
- Disk bay pivots forward
- Power supply latched and pivots from left side
- Toolless rails for disk mounting
- Toolless cover removal
- Toolless AGP and PCI slots



Bay ① 5.25", HH 1.6", access, std optical
 Bay ② 5.25", HH 1.6", access, open
 Bay ③ 3.5", SL 1", access, open
 Bay ④ 3.5", SL 1", access, std diskette
 Bay ⑤ 3.5", SL 1", no access, std disk

Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v) - used
 Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) in
 Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v) some
 Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v)

SYSTEMS MANAGEMENT

- PC 2001-compliant
- Advanced Power Management 1.2
- Advanced Configuration and Power Interface (ACPI) 1.0b
- System Management BIOS
- DMI 2.0-compliant
- *Security chip models:* Asset ID™.19 (system-specific info in chip)

SECURITY

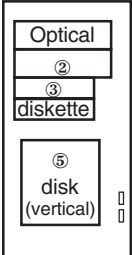
- U bolt anchoring feature (U-bolt is optional; supports optional padlock)
- Security slot (for attachment of optional cable lock)
- Power-on password
- Administrator password
- Boot sequence control
- Diskette boot inhibit
- Boot without keyboard or mouse
- Diskette and disk I/O control
- Serial/parallel I/O control
- *Security chip models:* security chip providing C2 tamper switch, Asset ID¹⁹, keylock on chassis, and other features

Preload with Windows 2000 ⁵	Options	
Microsoft® Windows® 2000 Professional	128MB PC2100 CL2.5 NP DDR UDIMM	33L3302
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM	33L3304
Preload with Windows XP Professional⁵	512MB PC2100 CL2.5 NP DDR UDIMM	33L3306
Microsoft Windows XP Professional	80GB IDE Disk ATA-100 (7200 rpm)	09N4248
- Disk-to-Disk Recovery (in Service Partition)	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
Preloaded (all)	48X/24X/48X Max ⁴ CD-RW internal (blk)	22P6997
• Access IBM	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	10K3790
• Access Support Connected Client	IBM DVD-RAM/DVD-R Drive (black)	22P6959
• Norton AntiVirus (OEM Version)	IBM Portable USB 2.0 20GB Hard Disk	09N4211
• InterVideo WinDVD (DVD models)	IBM 128MB USB 2.0 Memory Key	22P8998
• Veritas RecordNow and DLA (CD-RW)	IBM G78 17" (16.0" viewable) Monitor (blk)	66274AN
Downloadable (all)	IBM T541 15" Flat Panel Monitor (black)	9512AB1
• IBM Rapid Restore™ PC	IBM T560 15" Flat Panel Monitor (black)	6656HG2
• IBM Data Transfer	IBM P97 17" (18.0" viewable) Monitor (blk)	6651U3N
• IBM Director Agent	IBM Wireless keyboard and mouse (blk)	22P5170
• IBM Client Security Sft (security chip models)	IBM 675 Uninterruptable Power Supply	33L3478
License - CD not included (all)	IBM High Rate Wireless LAN PCI Adapter	22P6901
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	Kensington® MicroSaver® Desktop Lock	31P6763
	Other options at ibm.com/pc/us/accessories	

LIMITED WARRANTY¹

- ↔ **3 year parts / 1 year labor**
- ↔ **International Warranty Service⁹**
- ↔ **1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time**
- ↔ **2nd/3rd year: parts exchange only, call 1-800-772-2227**
- ↔ **3 year on site warranty service upgrade options:⁷**
 - **Next day response, Mon-Fri 8-5** (ServicePac® part number 30L9199)
 - **4 hour response, Mon-Fri 8-5** (ServicePac part number 41L2732)
 - **4 hour response, 7 day x 24 hr** (ServicePac part number 31L2724)
- ↔ **24x7¹⁴ toll-free support for warranty issues during the warranty period¹**

See footnotes for important warranty information
 US models announced June 4, 2002
 US models withdrawn effective October 2002, December 2002, or August 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁶	EIDE disk and rpm	Optical	Graphics	Security chip	Keyboard	Preload or Global	Workhorse Available date
A30p	8310-63U	4x5	Pentium® 4	1.8	512KB	400	128MB	40GB 7200	CD-ROM	Extreme™ GMCH	Pro	XP Pro ⁵	No	Sep 02
A30p	8310-3EU	4x5	Pentium 4	2.26	512KB	533	128MB	40GB 7200	CD-ROM	Extreme GMCH	Pro	XP Pro	No	Sep 02
A30p	8310-4EU	4x5	Pentium 4	2.4	512KB	533	128MB	80GB 7200	CD-RW	Extreme GMCH	Pro	XP Pro	No	Dec 02
A30p	8310-81U	4x5	Pentium 4	2.53	512KB	533	256MB	120GB 7200	Combo	Radeon 7000	RAK3	XP Pro	No	Sep 02
A30p	8310-65U	4x5	Pentium 4	1.8	512KB	400	128MB	40GB 7200	CD-ROM	Extreme GMCH	Chip	XP Pro	No	Sep 02
Positioning Processor	<i>Great technology and affordable prices</i>													
L2 cache Implementation	Intel® Pentium 4 at 1.8, 2.26, 2.4, or 2.53GHz with 400 or 533MHz frontside bus (FSB) 512KB std and max / ECC / full speed Processor and L2 cache in FC-PGA2 in mPGA478B socket													
Memory - std/max ⁸	128MB or 256MB std / 2GB max													
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used													
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)													
Graphics controller (one of following)	<ul style="list-style-type: none"> Integrated Intel Extreme™ Graphics / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector ATI Radeon 7000 / AGP 4X adapter / Radeon GPU / 64MB std and max 332MHz DDR-SDRAM / 300MHz RAMDAC / one analog DB-15 connector 													
Disk	40, 80, or 120GB , ATA-100, 7200 rpm, rubber vibration dampening mounts													
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)													
Diskette drive	3.5" 1.44MB diskette drive													
Optical	<i>Some:</i> 48X-20X ⁴ CD-ROM <i>Some:</i> 48X/24X/48X Max ⁴ CD-RW <i>Some:</i> 32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo													
Cables	Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop cable to disk)													
Chipset	Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse													
Ports	<i>Front:</i> two USB (Version 2.0) <i>Back:</i> four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)													
Audio	Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec													
Audio connectors	<i>Back:</i> microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]													
Beeper	One internal beeper													
Ethernet	10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN [®]													
Security chip	<i>Some:</i> IBM Embedded Security Subsystem 2.0¹⁸ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security ¹⁶ / TCPA-compliant													
Keyboard / mouse	<i>Some:</i> 104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 conn) / IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector) <i>Model 81U:</i> IBM Rapid Access™ IIe Keyboard [RAK3] (USB / no USB hub or ports) / IBM ScrollPoint [®] III mouse (USB)													
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)													
Power supply	185 watts with variable speed fan / universal / manual switch													
Preload with Windows XP Professional⁵											Options			
Microsoft® Windows® XP Professional											128MB PC2100 CL2.5 NP DDR UDIMM	33L3302		
- Disk-to-Disk Recovery (in Service Partition)											256MB PC2100 CL2.5 NP DDR UDIMM	33L3304		
Preloaded (all)											512MB PC2100 CL2.5 NP DDR UDIMM	33L3306		
• Access IBM											1GB PC2100 CL2.5 NP DDR UDIMM	33L3308		
• Access Support Connected Client											80GB IDE Disk ATA-100 (7200 rpm)	09N4248		
• Norton AntiVirus (OEM Version)											IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950		
• InterVideo WinDVD (Combo models)											48X/24X/48X Max ⁴ CD-RW internal (blk)	22P6997		
• Veritas RecordNOW and DLA (Combo and CD-RW models)											32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	22P6973		
Downloadable (all)											IBM DVD-RAM/DVD-R Drive (black)	22P6959		
• IBM Rapid Restore™ PC											IBM Multi-Burner internal (black)	22P6970		
• Software Delivery Assistant											IBM Portable USB 2.0 20GB Hard Disk	09N4211		
• Software Migration Assistant											IBM 128MB USB 2.0 Memory Key	22P8998		
• Remote Deployment Manager											IBM G78 17" (16.0" viewable) Monitor (blk)	6627KAN		
• IBM Director Agent											IBM T541 15" Flat Panel Monitor (black)	9512AB1		
• Update Connector™.15											IBM T560 15" Flat Panel Monitor (black)	6656HG2		
• IBM Client Security Sft (security chip models)											IBM P97 17" (18.0" viewable) Monitor (blk)	6651U3N		
License - CD not included (all)											IBM Wireless keyboard and mouse (black)	22P5170		
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client											IBM 675 Uninterruptable Power Supply	33L3478		
											IBM High Rate Wireless LAN PCI Adapter	22P6901		
											Kensington® MicroSaver® Desktop Lock	06P3839		
											Other options at ibm.com/pc/us/accessories			
											Tower			
											<ul style="list-style-type: none"> Stealth black color 7.5" W X 16.0" D X 16.3" H 191mm W X 406mm D X 413mm H 20.0 to 25.0 lb (9.1 to 10.2 kg) Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots 			
														
											Bay ① 5.25", HH 1.6", access, std optical Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, std disk			
											Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v) - used Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) in Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v) some Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v)			
											SYSTEMS MANAGEMENT			
											<ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b SMBIOS 2.3.1-compliant DMI 2.0-compliant <i>Security chip models:</i> Asset ID™.19 (system-specific info in chip) 			
											SECURITY			
											<ul style="list-style-type: none"> U bolt anchoring feature (U-bolt is optional; supports optional padlock) Security slot (for attachment of optional cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control <i>Security chip models:</i> security chip providing C2 tamper switch, Asset ID¹⁹, keylock on chassis, and other features⁷ 			
											LIMITED WARRANTY¹			
											<ul style="list-style-type: none"> 3 year parts / 1 year labor International Warranty Service⁹ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time 2nd/3rd year: parts exchange only, call 1-800-772-2227 On site service upgrade options (in eligible locations):⁷ <ul style="list-style-type: none"> 3 year IOR 9x5, Next Business Day (ServicePac[®] part number 30L9199) 3 year IOR 9x5, 4 hour response (ServicePac part number 41L2732) 3 year IOR 24x7, 4 hour response (ServicePac part number 31L2724) 4 year IOR 9x5, Next Business Day (ServicePac[®] part number 69P9158) 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9159) 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9160) 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ 			

See footnotes for important warranty information
 US models announced August 27, 2002 or November 19, 2002
 US models withdrawn effective December 2002 or August 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁶	EIDE disk and rpm	Optical	Graphics	Security features	Preload	Workhorse Available or Entry	date
A30p	8310-4GU	4x5	Pentium® 4	2.4	512KB	533	128MB	40GB ² 5400	CD-ROM	Extreme™ GMCH	XP Pro ⁵	Entry	Mar 03	
A30p	8310-4HU	4x5	Pentium 4	2.4	512KB	533	128MB	40GB 7200	CD-ROM	Extreme GMCH	2000	No	Mar 03	
A30p	8310-85U	4x5	Pentium 4	2.53	512KB	533	128MB	80GB 7200	CD-RW	Extreme GMCH	XP Pro	No	Mar 03	
A30p	8310-93U	4x5	Pentium 4	2.66	512KB	533	128MB	40GB 7200	CD-ROM	Extreme GMCH	2000	No	Mar 03	
A30p	8310-94U	4x5	Pentium 4	2.66	512KB	533	128MB	80GB 7200	CD-RW	Extreme GMCH	XP Pro	No	Mar 03	
A30p	8310-D3U	4x5	Pentium 4	2.8	512KB	533	256MB	120GB 7200	Combo	MX 420 64MB out	XP Pro	No	Mar 03	
A30p	8310-4KU	4x5	Pentium 4	2.4	512KB	533	256MB	40GB 7200	CD-ROM	Extreme GMCH	Chip, keylock	XP Pro	No	Mar 03

Positioning	<i>Great technology and affordable prices</i>	
Processor	Intel® Pentium 4 at 2.4, 2.53, 2.66, or 2.8GHz with 533MHz frontside bus (FSB)	
L2 cache	512KB std and max / ECC / full speed	
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket	
Memory - std/max ⁶	128MB or 256MB std / 2GB max	
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used	
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)	
Graphics controller (one of following)	<ul style="list-style-type: none"> Integrated Intel Extreme™ Graphics / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector NVIDIA GeForce4 MX 420 / AGP 4X adapter / GeForce4 MX GPU / 64MB std and max 333MHz DDR-SDRAM / 350MHz RAMDAC / conn: analog DB-15, S-Video out for TV-out 	
Disk	40, 80, or 120GB , ATA-100, 5400 or 7200 rpm, rubber vibration dampening mounts	
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)	
Diskette drive	3.5" 1.44MB diskette drive	
Optical	<i>Some:</i> 48X-20X ⁴ CD-ROM <i>Some:</i> 48X/24X/48X Max ⁴ CD-RW	
Cables	Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop cable to disk)	
Chipset	Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse	
Ports	<i>Front:</i> two USB (Version 2.0) <i>Back:</i> four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)	
Audio	Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec	
Audio connectors	<i>Back:</i> microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]	
Beeper	One internal beeper	
Ethernet	10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100 Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN [®]	
Security chip	<i>Some:</i> IBM Embedded Security Subsystem 2.0¹⁸ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security ¹⁶ / TCPA-compliant	
Keyboard	104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector)	
Mouse	IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector)	
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)	
Power supply	185 watts with variable speed fan / universal / manual switch	

Preload with Windows XP Professional⁵	Options
Microsoft® Windows® XP Professional	128MB PC2100 CL2.5 NP DDR UDIMM 33L3302
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM 33L3304
Preload with Windows 2000⁵	512MB PC2100 CL2.5 NP DDR UDIMM 33L3306
Microsoft Windows 2000 Professional	1GB PC2100 CL2.5 NP DDR UDIMM 33L3308
- Disk-to-Disk Recovery (in Service Partition)	80GB IDE Disk ATA-100 (7200 rpm) 09N4248
Preloaded (all)	120GB IDE Disk ATA-100 (7200 rpm) 09N4249
• Access IBM	IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950
• Access Support	48X/24X/48X Max ⁴ CD-RW internal (blk) 22P6997
• IBM Rapid Restore™ PC	32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM 22P6973
• Update Connector™.15	Combo drive (black) 22P6959
• Norton AntiVirus (OEM Version)	IBM DVD-RAM/DVD-R Drive (black) 22P6970
• Veritas RecordNOW and DLA (CD-RW models)	IBM Multi-Burner internal (black) 09N4211
Downloadable (all)	IBM 128MB USB 2.0 Memory Key 22P8998
• Software Delivery Assistant	IBM G78 17" (16.0" viewable) Monitor (blk) 6627KAN
• Software Migration Assistant	IBM T541 15" Flat Panel Monitor (black) 9512AB1
• Remote Deployment Manager	IBM T560 15" Flat Panel Monitor (black) 6656HG2
• IBM Director Agent	IBM T860 18.1" Flat Panel Monitor (black) 9494HB0
• IBM Client Security Sft (security chip models)	IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N
License - CD not included (all)	IBM Wireless keyboard and mouse (black) 22P5170
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	IBM 675 Uninterruptable Power Supply 33L3478
	IBM High Rate Wireless LAN PCI Adapter 22P6901
	Kensington® MicroSaver® Desktop Lock 06P3839
	Other options at ibm.com/pc/us/accessories

TOWER	<ul style="list-style-type: none"> Stealth black color 7.5" W X 16.0" D X 16.3" H 191mm W X 406mm D X 413mm H 20.0 to 25.0 lb (9.1 to 10.2 kg) Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots 	
Bay ①	5.25", HH 1.6", access, std optical	
Bay ②	5.25", HH 1.6", access, open	
Bay ③	3.5", SL 1", access, open	
Bay ④	3.5", SL 1", access, std diskette	
Bay ⑤	3.5", SL 1", no access, std disk	
Slot 1:	3/4-length, full-height, 32-bit AGP 4X (1.5v) - used	
Slot 2:	3/4-length, full-height, 32-bit PCI 2.2 (5v) in	
Slot 3:	3/4-length, full-height, 32-bit PCI 2.2 (5v) some	
Slot 4:	3/4-length, full-height, 32-bit PCI 2.2 (5v)	

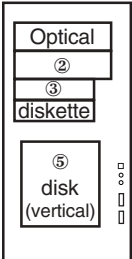
SYSTEMS MANAGEMENT
<ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b SMBIOS 2.3.1-compliant DMI 2.0-compliant Security chip models: Asset ID™.19 (system-specific info in chip)
SECURITY
<ul style="list-style-type: none"> U bolt anchoring feature (U-bolt is optional; supports optional padlock) Security slot (for attachment of optional cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control Security chip models: security chip providing C2 tamper switch, Asset ID¹⁹, keylock on chassis, and other features
LIMITED WARRANTY¹
<ul style="list-style-type: none"> 3 year parts / 1 year labor International Warranty Service⁹ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time 2nd/3rd year: parts exchange only, call 1-800-772-2227 On site service upgrade options (in eligible locations):⁷ <ul style="list-style-type: none"> 3 year IOR 9x5, Next Business Day (ServicePac® part number 30L9199) 3 year IOR 9x5, 4 hour response (ServicePac part number 41L2732) 3 year IOR 24x7, 4 hour response (ServicePac part number 31L2724) 4 year IOR 9x5, Next Business Day (ServicePac® part number 69P9158) 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9159) 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9160) 24x7¹⁴ toll-free support for warranty issues during the warranty period¹

See footnotes for important warranty information
US models announced March 4, 2003
US models withdrawn effective August 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ^a	EIDE disk GB rpm	Optical	Graphics	Modem	FireWire	PCMCIA Preload	Available date
A30p	8310-1BU	4x5	Pentium® 4	1.8	256KB	400	128MB	40GB ² Value	DVD	Extreme™ GMCH	Modem		XP Home ⁵	Jun 02
A30p	8310-28U	4x5	Pentium 4	2.0	512KB	400	128MB	40GB Value	DVD	Extreme GMCH	Modem		XP Home	Jun 02
A30p	8310-37U	4x5	Pentium 4	2.26	512KB	533	128MB	80GB 7200	CD-RW	MX 420 64MB out	Modem		XP Home	Jun 02
A30p	8310-39U	4x5	Pentium 4	2.26	512KB	533	256MB	80GB 7200	Combo	MX 420 64MB out	Modem 1394	Two	XP Home	Jun 02
A30p	8310-48U	4x5	Pentium 4	2.4	512KB	533	256MB	120GB 7200	Combo	Ti 4200 128MB out	Modem 1394	Two	XP Home	Jun 02

Positioning	<i>Great technology and affordable prices</i>									
Processor	Intel® Pentium 4 at 1.8, 2.0, 2.26, 2.4GHz with 400 or 533MHz FSB									
L2 cache	256 or 512KB std and max / ECC / full speed									
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket									
Memory - std/max ^a	128 or 256MB std / 1GB max									
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used									
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)									
Graphics controller (one of following)	<ul style="list-style-type: none"> Integrated Intel Extreme™ Graphics / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector NVIDIA GeForce4 MX 420 / AGP 4X adapter / GeForce4 MX GPU / 64MB std and max 333MHz DDR-SDRAM / 350MHz RAMDAC / two connectors: analog DB-15, S-Video out for TV-out NVIDIA® GeForce4™ Ti 4200 / AGP 4X adapter / GeForce4 Ti GPU / 128MB std and max 444MHz DDR-SDRAM / 350MHz RAMDAC / three connectors: analog DB-15, digital DVI-D, S-Video out for TV-out (but single head [not dual head]) 									
Disk	40, 80, or 120GB, ATA-100, rubber vibration dampening mounts									
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)									
Diskette drive	3.5" 1.44MB diskette drive									
Optical	One of following: 40X/12X/40X Max ⁴ CD-RW, 16X/48X Max ⁴ DVD-ROM, 8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo									
Cables	Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop to disk)									
Chipset	Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse									
Front ports	All: two USB (Vers 2.0), microphone in (mono), headphone out (stereo) 39U/48U: IEEE 1394 (4-pin), Sony/Philips Digital Interface (S/PDIF) (optical), two Type I or two Type II PCMCIA slots (lower left)									
Rear ports	All: four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15) 39U/48U: two IEEE 1394 (6-pin)									
Audio	Integrated digital audio / SoundMax® 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec									
Audio connectors	Back: microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]									
Speakers	External active speakers / Jazz Infinity® / 2-piece / 3 watts per channel / blk color									
Ethernet	10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN [®]									
Modem	56K ¹⁰ V.90 data/fax soft modem / Conexant® chipset / soft HSF ⁱ modem / PCI adapter									
IEEE 1394 (FireWire) and PCMCIA	Some: Combination FireWire/PCMCIA PCI adapter / FireWire: 1394A, 400Mbps, dual 6-pin ports on rear, 4-pin port on front of system, no cables included / two PCMCIA Type I or two Type II slots in front lower left of system									
Keyboard	IBM Rapid Access™ IIIe Keyboard (USB / no USB hub or ports)									
Mouse	IBM ScrollPoint® III mouse (USB)									
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)									
Power supply	185 watts with variable speed fan / universal / manual switch									

Preload with Windows XP Home⁵	Options
Microsoft® Windows® XP Home Edition	128MB PC2100 CL2.5 NP DDR UDIMM 33L3302
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM 33L3304
Preloaded (all)	512MB PC2100 CL2.5 NP DDR UDIMM 33L3306
• Access IBM	80GB IDE Disk ATA-100 (7200 rpm) 09N4248
• Access Support Connected Client	IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950
• Norton AntiVirus (OEM Version)	48X/24X/48X Max ⁴ CD-RW internal (blk) 22P6997
• PC-Doctor™	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 10K3790
• Software Delivery Assistant	IBM DVD-RAM/DVD-R Drive (black) 22P6959
• Veritas RecordNOW and DLA (CD-RW)	IBM Portable USB 2.0 20GB Hard Disk 09N4211
• Intervideo WinDVD player (DVD models)	IBM 128MB USB 2.0 Memory Key 22P8998
Downloadable (all)	IBM G78 17" (16.0" viewable) Monitor (blk) 66274AN
• IBM Rapid Restore™ PC	IBM T541 15" Flat Panel Monitor (black) 9512AB1
• IBM Data Transfer	IBM T560 15" Flat Panel Monitor (black) 6656HG2
• IBM Director Agent	IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N
• Software Migration Assistant	IBM Wireless keyboard and mouse (blk) 22P5170
• Update Connector™ ¹⁵	IBM 675 Uninterruptable Power Supply 33L3478
License - CD not included (all)	IBM High Rate Wireless LAN PCI Adapter 22P6901
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	Kensington® MicroSaver® Desktop Lock 06P3839
	Other options at ibm.com/pc/us/accessories

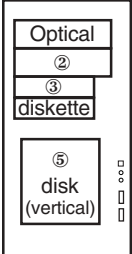
Tower	<ul style="list-style-type: none"> 7.5" W X 15.7"D X 16.3"H 190mm W X 399mm D X 415mm H 22.5 to 29.5 lb (10.2 to 13.4 kg) Stealth black color Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots 	
Bay ①	5.25", HH 1.6", access, std optical	
Bay ②	5.25", HH 1.6", access, open	
Bay ③	3.5", SL 1", access, open	
Bay ④	3.5", SL 1", access, std diskette	
Bay ⑤	3.5", SL 1", no access, std disk	
Slot 1:	3/4-length, full-height, 32-bit AGP 4X (1.5v) - some	
Slot 2:	3/4-length, full-height, 32-bit PCI 2.2 (5v) - modem	
Slot 3:	3/4-length, full-height, 32-bit PCI 2.2 (5v)	
Slot 4:	3/4-length, full-height, 32-bit PCI 2.2 (5v) - some	

SYSTEMS MANAGEMENT	<ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b System Management BIOS DMI 2.0-compliant
SECURITY	<ul style="list-style-type: none"> U bolt anchoring feature (U-bolt is optional; supports optional padlock) Security slot (for attachment of optional cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control
LIMITED WARRANTY¹	<ul style="list-style-type: none"> 3 year parts / 1 year labor International Warranty Service⁹ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time 2nd/3rd year: parts exchange only, call 1-800-772-2227 3 year on site warranty service upgrade options⁷: <ul style="list-style-type: none"> Next day response, Mon-Fri 8-5 (ServicePac® part number 30L9199) 4 hour response, Mon-Fri 8-5 (ServicePac part number 41L2732) 4 hour response, 7 day x 24 hr (ServicePac part number 31L2724) 24x7¹⁴ toll-free support for warranty issues during the warranty period¹

See footnotes for important warranty information

US models announced June 4, 2002

US models withdrawn effective October 2002, December 2002, May 2003, or August 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁸	EIDE disk and rpm	Optical	Graphics	Modem	FireWire	PCMCIA	Preload	Available date
A30p	8310-64U	4x5	Pentium® 4	1.8	512KB	400	128MB	40GB ⁹ 7200	DVD	Extreme™ GMCH	Modem			XP Home ⁵	Sep 02
A30p	8310-3GU	4x5	Pentium 4	2.26	512KB	533	128MB	40GB 7200	DVD	Extreme GMCH	Modem			XP Home	Sep 02
A30p	8310-82U	4x5	Pentium 4	2.53	512KB	533	256MB	120GB 7200	Combo	Ti 4200 128MB out	Modem 1394	Two		XP Home	Sep 02
A30p	8310-91U	4x5	Pentium 4	2.66	512KB	533	256MB	120GB 7200	Combo	Ti 4200 128MB out	Modem 1394	Two		XP Home	Sep 02
A30p	8310-A1U	4x5	Pentium 4	3.06	512KB	533	256MB	120GB 7200	Combo	Ti 4200 128MB out	Modem			XP Pro	Dec 02
Positioning Processor	Great technology and affordable prices Intel® Pentium 4 at 1.8, 2.26, 2.53, 2.66, 3.06GHz with 400 or 533MHz frontside bus (FSB) / no Hyper-Threading technology support										Tower				
L2 cache Implementation	512KB std and max / ECC / full speed Processor and L2 cache in FC-PGA2 in mPGA478B socket										<ul style="list-style-type: none"> Stealth black color 7.5" W X 16.0"D X 16.3"H 191mm W X 406mm D X 413mm H 20.0 to 25.0 lb (9.1 to 10.2 kg) Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots 				
Memory - std/max ⁸	128 or 256MB std / 2GB max										Bay ① 5.25", HH 1.6", access, std optical Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, std disk				
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used										Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v) - some Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) - modem Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v) - some				
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)										SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b SMBIOS 2.3.1-compliant DMI 2.0-compliant 				
Graphics controller	<ul style="list-style-type: none"> Integrated Intel Extreme™ Graphics / Direct AGP / in 845G (one of following) GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector NVIDIA® GeForce4™ Ti 4200 / AGP 4X adapter / GeForce4 Ti GPU / 128MB std and max 444MHz DDR-SDRAM / 350MHz RAMDAC / three connectors: analog DB-15, digital DVI-D, S-Video out for TV-out (but single head [not dual head]) 										SECURITY <ul style="list-style-type: none"> U bolt anchoring feature (U-bolt is optional; supports optional padlock) Security slot (for attachment of optional cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control 				
Disk	40 or 120GB , ATA-100, 7200 rpm, rubber vibration dampening mounts										LIMITED WARRANTY¹ <ul style="list-style-type: none"> 3 year parts / 1 year labor International Warranty Service³ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time 2nd/3rd year: parts exchange only, call 1-800-772-2227 On site service upgrade options (in eligible locations):⁷ <ul style="list-style-type: none"> 3 year IOR 9x5, Next Business Day (ServicePac® part number 30L9199) 3 year IOR 9x5, 4 hour response (ServicePac part number 41L2732) 3 year IOR 24x7, 4 hour response (ServicePac part number 31L2724) 4 year IOR 9x5, Next Business Day (ServicePac part number 69P9158) 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9159) 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9160) 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ 				
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)														
Diskette drive	3.5" 1.44MB diskette drive														
Optical	Some: 16X/48X Max ⁴ DVD-ROM Some: 32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo														
Cables	Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop to disk)														
Chipset	Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse														
Front ports	All: two USB (Version 2.0) 82U/91U: microphone in (mono), headphone out (stereo), IEEE 1394 (4-pin), Sony/Philips Digital Interface (S/PDIF) (optical), two Type I or two Type II PCMCIA slots (lower left)														
Rear ports	All: four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15) 82U/91U: two IEEE 1394 (6-pin)														
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec														
Audio connectors	Back: microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]														
Speakers	External active speakers / Jazz Infinity® / 2-piece / 3 watts per channel / blk color														
Ethernet	10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN ⁸														
Modem	56K ¹⁰ V.90 data/fax soft modem / Conexant® chipset / PCI adapter														
IEEE 1394 (FireWire) and PCMCIA	Some: Combination FireWire/PCMCIA PCI adapter / FireWire: 1394A, 400Mbps, dual 6-pin ports on rear, 4-pin port on front of system, no cables included / two PCMCIA Type I or two Type II slots in front lower left of system														
Keyboard / mouse	64U/3GU: 104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector) / IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector) 82U/91U/A1U: IBM Rapid Access™ IIIe Keyboard [RAK3] (USB / no USB hub or ports) / IBM ScrollPoint™ III mouse (USB)														
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)														
Power supply	185 watts with variable speed fan / universal / manual switch														
Preload with Windows XP Home ⁵	Options Microsoft® Windows® XP Home Edition 128MB PC2100 CL2.5 NP DDR UDIMM 33L3302 - Disk-to-Disk Recovery (in Service Partition) 256MB PC2100 CL2.5 NP DDR UDIMM 33L3304 Preload with Windows XP Professional ⁵ 512MB PC2100 CL2.5 NP DDR UDIMM 33L3306 Microsoft Windows XP Professional 1GB PC2100 CL2.5 NP DDR UDIMM 33L3308 - Disk-to-Disk Recovery (in Service Partition) 80GB IDE Disk ATA-100 (7200 rpm) 09N4248 IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950 Preloaded (all) 48X/24X/48X Max ⁴ CD-RW internal (blk) 22P6997 • Access IBM 32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM • Access Support Connected Client Combo drive (black) 22P6973 • Norton AntiVirus (OEM Version) IBM DVD-RAM/DVD-R Drive (black) 22P6959 • PC-Doctor™ IBM Multi-Burner internal (black) 22P6970 • Veritas RecordNOW and DLA (Combo mod) IBM Portable USB 2.0 20GB Hard Disk 09N4211 • Intervideo WinDVD player Iomega® Zip 750MB USB 2.0 Drive 22P7099 • Downloadable (all) IBM 128MB USB 2.0 Memory Key 22P8998 • IBM Rapid Restore™ PC IBM G78 17" (16.0" viewable) Monitor (blk) 6627KAN • Remote Deployment Manager IBM T541 15" Flat Panel Monitor (black) 9512AB1 • IBM Director Agent (not XP Home) IBM T560 15" Flat Panel Monitor (black) 6656HG2 • Software Migration Assistant IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N • Update Connector™.15 IBM Wireless keyboard and mouse (black) 22P5170 IBM 675 Uninterruptable Power Supply 33L3478 IBM High Rate Wireless LAN PCI Adapter 22P6901 Kensington® MicroSaver® Desktop Lock 06P3839 Other options at ibm.com/pc/us/accessories														
License - CD not included (all)	Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client														

See footnotes for important warranty information
US models announced on August 27, 2002 or November 19, 2002
US models withdrawn effective December 2002, May 2003, or August 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ^a	EIDE disk and rpm	Optical	Graphics	Modem	FireWire	PCMCIA	Preload	Available date
A30p	8310-95U	4x5	Pentium® 4	2.66	512KB	533	256MB	80GB ² 7200	Combo	Ti 4200 128MB out	Modem 1394	Two	XP Home ⁵	Mar 03	
A30p	8310-D4U	4x5	Pentium 4	2.8	512KB	533	256MB	120GB 7200	Combo	Ti 4200 128MB out	Modem 1394	Two	XP Home	Mar 03	
A30p	8310-A2U	4x5	Pentium 4	3.06	512KB	533	256MB	120GB 7200	Combo	Ti 4200 128MB out	Modem 1394	Two	XP Home	Mar 03	

Positioning *Great technology and affordable prices*
Processor Intel® Pentium 4 at 2.66, 2.8, 3.06GHz with 533MHz frontside bus (FSB) / no Hyper-Threading technology support
L2 cache 512KB std and max / ECC / full speed
Implementation Processor and L2 cache in FC-PGA2 in mPGA478B socket

Memory - std/max 256MB std / 2GB max
Memory - sockets Two 184-pin gold plated DIMM sockets / one socket used
Memory - type PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)

Graphics controller NVIDIA® GeForce4™ Ti 4200 / AGP 4X adapter / GeForce4 Ti GPU / 128MB std and max 444MHz DDR-SDRAM / 350MHz RAMDAC / three connectors: analog DB-15, digital DVI-D, S-Video out for TV-out (but single head [not dual head])

Disk 80 or 120GB, ATA-100, 7200 rpm, rubber vibration dampening mounts
Disk controller Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)
Diskette drive 3.5" 1.44MB diskette drive
Optical 32X/10X/40X/16X Max¹¹ CD-RW/DVD-ROM Combo
Cables Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop to disk)

Chipset Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse

Front ports Two USB (Version 2.0), microphone in (mono), headphone out (stereo), IEEE 1394 (4-pin), Sony/Philips Digital Interface (S/PDIF) (optical), two Type I or two Type II PCMCIA slots (lower left)

Rear ports Four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15), two IEEE 1394 (6-pin)

Audio Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec

Audio connectors Back: microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]
Speakers External active speakers / Jazz Infinity® / 2-piece / 3 watts per channel / blk color
Ethernet 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100 Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN®

Modem 56K¹⁰ V.90 data/fax soft modem / Conexant® chipset / PCI adapter
IEEE 1394 (FireWire) and PCMCIA Combination FireWire/PCMCIA PCI adapter / FireWire: 1394A, 400Mbps, dual 6-pin ports on rear, 4-pin port on front of system, no cables included / two PCMCIA Type I or two Type II slots in front lower left of system

Keyboard IBM Rapid Access™ IIIe Keyboard [RAK3] (USB / no USB hub or ports)
Mouse IBM ScrollPoint™ III mouse (USB)
Cooling fans Three variable speed fans (power supply, fansink, rear fan)
Power supply 185 watts with variable speed fan / universal / manual switch

Tower

- Stealth black color
- 7.5" W X 16.0"D X 16.3"H
- 191mm W X 406mm D X 413mm H
- 20.0 to 25.0 lb (9.1 to 10.2 kg)
- Handle on top front
- Disk bay pivots forward
- Power supply latched and pivots from left side
- Toolless rails for disk mounting
- Toolless cover removal
- Toolless AGP and PCI slots

Bay ① 5.25", HH 1.6", access, std optical
 Bay ② 5.25", HH 1.6", access, open
 Bay ③ 3.5", SL 1", access, open
 Bay ④ 3.5", SL 1", access, std diskette
 Bay ⑤ 3.5", SL 1", no access, std disk

Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v) - used
 Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) - modem
 Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v)
 Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v) - used

- SYSTEMS MANAGEMENT**
- PC 2001-compliant
 - Advanced Power Management 1.2
 - Advanced Configuration and Power Interface (ACPI) 1.0b
 - SM BIOS 2.3.1-compliant
 - DMI 2.0-compliant

- SECURITY**
- U bolt anchoring feature (U-bolt is optional; supports optional padlock)
 - Security slot (for attachment of optional cable lock)
 - Power-on password
 - Administrator password
 - Boot sequence control
 - Diskette boot inhibit
 - Boot without keyboard or mouse
 - Diskette and disk I/O control
 - Serial/parallel I/O control

- LIMITED WARRANTY¹**
- 3 year parts / 1 year labor
 - International Warranty Service⁹
 - 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time
 - 2nd/3rd year: parts exchange only, call 1-800-772-2227
 - On site service upgrade options (in eligible locations):⁷
 - 3 year IOR 9x5, Next Business Day (ServicePac® part number 30L9199)
 - 3 year IOR 9x5, 4 hour response (ServicePac part number 41L2732)
 - 3 year IOR 24x7, 4 hour response (ServicePac part number 31L2724)
 - 4 year IOR 9x5, Next Business Day (ServicePac® part number 69P9158)
 - 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9159)
 - 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9160)
 - 24x7¹⁴ toll-free support for warranty issues during the warranty period¹

Preload with Windows XP Home ⁵	Options	
Microsoft® Windows® XP Home Edition	128MB PC2100 CL2.5 NP DDR UDIMM	33L3302
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM	33L3304
Preloaded (all)	512MB PC2100 CL2.5 NP DDR UDIMM	33L3306
• Access IBM	1GB PC2100 CL2.5 NP DDR UDIMM	33L3308
• Access Support	80GB IDE Disk ATA-100 (7200 rpm)	09N4248
• IBM Rapid Restore™ PC	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
• Update Connector™ ¹⁵	48X/24X/48X Max ¹¹ CD-RW internal (blk)	22P6997
• Norton AntiVirus (OEM Version)	32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM	22P6973
• PC-Doctor™	Combo drive (black)	22P6959
• Veritas RecordNOW and DLA	IBM DVD-RAM/DVD-R Drive (black)	22P6970
• Intervideo WinDVD player	IBM Multi-Burner internal (black)	09N4211
Downloadable (all)	IBM Portable USB 2.0 20GB Hard Disk	22P7099
• Software Migration Assistant	IBM omega® Zip 750MB USB 2.0 Drive	22P8998
• Remote Deployment Manager	IBM 128MB USB 2.0 Memory Key	6627KAN
License - CD not included (all)	IBM G78 17" (16.0" viewable) Monitor (blk)	9512AB1
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	IBM T541 15" Flat Panel Monitor (black)	6656HG2
	IBM P97 17" (18.0" viewable) Monitor (blk)	6651U3N
	IBM Wireless keyboard and mouse (black)	22P5170
	IBM 675 Uninterruptable Power Supply	33L3478
	IBM High Rate Wireless LAN PCI Adapter	22P6901
	Kensington® MicroSaver® Desktop Lock	06P3839
	Other options at ibm.com/pc/us/accessories	

See footnotes for important warranty information
 US models announced March 4, 2003
 US models withdrawn effective August 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ^a	EIDE disk GB rpm	Optical	Graphics	FireWire	Keyboard	Preload	Works Suite	Available date
A30p	8311-13U	4x5	Pentium® 4	1.8	256KB	400	128MB	80GB ^b 7200	CD-RW	MX 420 64MB out	1394	RAK3	XP Home ⁵	Works	Jun 02
A30p	8311-15U	4x5	Pentium 4	2.0	256KB	400	128MB	40GB Value	CD-ROM	Extreme™ GMCH	1394		XP Home	Works	Jun 02
A30p	8311-29U	4x5	Pentium 4	2.0	512KB	400	128MB	40GB Value	CD-ROM	Extreme GMCH			XP Home		Jun 02
A30p	8311-2CU	4x5	Pentium 4	2.0	512KB	400	128MB	80GB 7200	CD-RW	MX 420 64MB out		RAK3	XP Home		Jun 02
A30p	8311-3DU	4x5	Pentium 4	2.26	512KB	533	128MB	80GB 7200	CD-RW	MX 420 64MB out		RAK3	XP Home		Jun 02
A30p	8311-3GU	4x5	Pentium 4	2.26	512KB	533	128MB	40GB Value	CD-ROM	Extreme GMCH			XP Home		Jun 02
A30p	8311-47U	4x5	Pentium 4	2.4	512KB	533	128MB	40GB Value	CD-ROM	Extreme GMCH			XP Home		Jun 02

Positioning *Great technology and affordable prices*
 Processor **Intel® Pentium 4 at 1.8, 2.0, 2.26, 2.4GHz** with 400 or 533MHz FSB
 L2 cache **256 or 512KB** std and max / ECC / full speed
 Implementation Processor and L2 cache in FC-PGA2 in mPGA478B socket

Memory - std/max^a **128MB std / 1GB max**
 Memory - sockets Two 184-pin gold plated DIMM sockets / one socket used
 Memory - type **PC2100 266MHz DDR-SDRAM** / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)

Graphics controller (one of following)

- **Integrated Intel Extreme™ Graphics** / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector
- **NVIDIA GeForce4 MX 420** / AGP 4X adapter / GeForce4 MX GPU / **64MB** std and max 333MHz DDR-SDRAM / 350MHz RAMDAC / two connectors: analog DB-15, S-Video out for TV-out

Disk **40 or 80GB**, ATA-100, rubber vibration dampening mounts
 Disk controller Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)
 Diskette drive 3.5" 1.44MB diskette drive
 CD-ROM *Some: 48X-20X⁴ CD-ROM / bootable*
 CD-RW *Some: 40X/12X/40X Max⁴ CD-RW / bootable*
 Cables Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop cable to disk)

Chipset **Intel 845G chipset** / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse

Front ports *All:* two USB (Vers 2.0), microphone in (mono), headphone out (stereo) **13U/15U:** IEEE 1394 (4-pin)

Rear ports Four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)

Audio Integrated digital audio / SoundMAX[®] 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec

Audio connectors *Back:* microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]

Speakers External active speakers / Jazz Infinity[®] / 2-piece / 3 watts per channel / blk color

Ethernet 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN[®]

Modem 56K¹⁰ V.90 data/fax soft modem / Conexant[®] chipset / soft HSF1 modem / PCI adapter

IEEE 1394 (FireWire) *Some:* FireWire PCI adapter / 1394A / 400Mbps / dual 6-pin ports on rear / includes 4-pin port on front of system / no cables included

Keyboard *Some:* IBM Rapid Access™ Ille Keyboard [RAK3] (USB / no USB hub or ports)
Some: 104-key IBM Preferred Pro Full-size keyboard

Mouse IBM ScrollPoint[®] III mouse (USB)

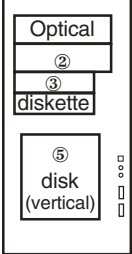
Cooling fans Three variable speed fans (power supply, fansink, rear fan)

Power supply 185 watts with variable speed fan / universal / manual switch

Preload with Windows XP Home ⁵	Options
Microsoft® Windows® XP Home Edition	128MB PC2100 CL2.5 NP DDR UDIMM 33L3302
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM 33L3304
Preloaded (all)	512MB PC2100 CL2.5 NP DDR UDIMM 33L3306
• Access IBM	80GB IDE Disk ATA-100 (7200 rpm) 09N4248
• Access Support Connected Client	IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950
• Norton AntiVirus (OEM Version)	48X/24X/48X Max ⁴ CD-RW internal (blk) 22P6997
• PC-Doctor™	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 10K3790
• Software Delivery Assistant	IBM DVD-RAM/DVD-R Drive (black) 22P6959
• Veritas RecordNOW and DLA (CD-RW)	IBM Portable USB 2.0 20GB Hard Disk 09N4211
Downloadable (all)	IBM 128MB USB 2.0 Memory Key 22P8998
• IBM Rapid Restore™ PC	IBM G78 17" (16.0" viewable) Monitor (blk) 66274AN
• IBM Data Transfer	IBM T541 15" Flat Panel Monitor (black) 9512AB1
• IBM Director Agent	IBM T560 15" Flat Panel Monitor (black) 6656HG2
• Software Migration Assistant	IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N
• Update Connector™.15	IBM Wireless keyboard and mouse (blk) 22P5170
License - CD not included (all)	IBM 675 Uninterruptable Power Supply 33L3478
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	IBM High Rate Wireless LAN PCI Adapter 22P6901
Works Suite 2002 (Models 13U and 15U)	Kensington® MicroSaver® Desktop Lock 06P3839
- Microsoft Works Suite 2002 (Word 2002, Works 6.0, Encarta® Encyclopedia Standard 2002, Money 2002 Standard, Picture It!® Photo 2002, Streets & Trips 2002)	Other options at ibm.com/pc/us/accessories

Tower

- 7.5" W X 15.7"D X 16.3"H
- 190mm W X 399mm D X 415mm H
- 22.5 to 29.5 lb (10.2 to 13.4 kg)
- Stealth black color
- Handle on top front
- Disk bay pivots forward
- Power supply latched and pivots from left side
- Toolless rails for disk mounting
- Toolless cover removal
- Toolless AGP and PCI slots



Bay ① 5.25", HH 1.6", access, std optical
 Bay ② 5.25", HH 1.6" access, open
 Bay ③ 3.5", SL 1", access, open
 Bay ④ 3.5", SL 1", access, std diskette
 Bay ⑤ 3.5", SL 1", no access, std disk

Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v) - some
 Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) - modem
 Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v)
 Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v) - some

- SYSTEMS MANAGEMENT**
- PC2001-compliant
 - Advanced Power Management 1.2
 - Advanced Configuration and Power Interface (ACPI) 1.0b
 - System Management BIOS
 - DMI 2.0-compliant

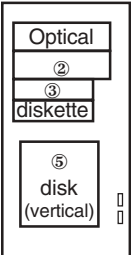
- SECURITY**
- U bolt anchoring feature (U-bolt is optional; supports optional padlock)
 - Security slot (for attachment of optional cable lock)
 - Power-on password
 - Administrator password
 - Boot sequence control
 - Diskette boot inhibit
 - Boot without keyboard or mouse
 - Diskette and disk I/O control
 - Serial/parallel I/O control

- LIMITED WARRANTY¹**
- ↔ 1 year parts and labor
 - ↔ International Warranty Service⁹
 - ↔ On site, 8 am - 5 pm, Mon - Fri, 2nd business day response time
 - ↔ On site service upgrade options (in eligible locations):¹
 - 1 year 9x5 4 hour response (ServicePac[®] part number 54P1858)
 - 2 year 9x5 Next Business Day (ServicePac part number 54P1859)
 - 2 year 9x5 4 hour response (ServicePac part number 54P1860)
 - 3 year 9x5 Next Business Day (ServicePac part number 54P1861)
 - 3 year 9x5 4 hour response (ServicePac part number 54P1862)
 - ↔ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁸	EIDE disk and rpm	Optical	Graphics	PCI Modem Keyboard	Preload	Available date
A30p	8311-61U	4x5	Pentium® 4	1.8	512KB	400	128MB	40GB ² 7200	CD-ROM	Extreme™ GMCH	Modem	XP Home ⁵	Sep 02
A30p	8311-62U	4x5	Pentium 4	1.8	512KB	400	128MB	80GB 7200	CD-RW	Extreme GMCH	Modem	XP Home	Sep 02
A30p	8311-2EU	4x5	Pentium 4	2.0	512KB	400	128MB	80GB 7200	CD-RW	Extreme GMCH	Modem	XP Home	Dec 02
A30p	8311-4DU	4x5	Pentium 4	2.4	512KB	533	128MB	80GB 7200	CD-RW	MX 420 64MB out	Modem RAK3	XP Home	Sep 02
A30p	8311-83U	4x5	Pentium 4	2.53	512KB	533	128MB	80GB 7200	CD-RW	MX 420 64MB out	Modem RAK3	XP Home	Sep 02
A30p	8311-85U	4x5	Pentium 4	2.53	512KB	533	128MB	40GB 7200	CD-ROM	Extreme GMCH	Modem	XP Home	Sep 02
A30p	8311-92U	4x5	Pentium 4	2.66	512KB	533	128MB	80GB 7200	CD-RW	MX 420 64MB out	Modem RAK3	XP Home	Sep 02
A30p	8311-D1U	4x5	Pentium 4	2.8	512KB	533	256MB	80GB 7200	CD-RW	Radeon 7000 64MB	Modem RAK3	XP Home	Sep 02
A30p	8311-A1U	4x5	Pentium 4	3.06	512KB	533	256MB	80GB 7200	Combo	MX 420 64MB out	Modem RAK3	XP Home	Dec 02
Positioning	<i>Great technology and affordable prices</i>										Tower		
Processor	Intel® Pentium 4 at 1.8, 2.0, 2.4, 2.53, 2.66, 2.8, or 3.06GHz with 400 or 533MHz frontside bus (FSB) / no Hyper-Threading support										<ul style="list-style-type: none"> Stealth black color 7.5" W X 16.0"D X 16.3"H 191mm W X 406mm D X 413mm H 20.0 to 25.0 lb (9.1 to 10.2 kg) Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots 		
L2 cache Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket										<ul style="list-style-type: none"> Bay ① 5.25", HH 1.6", access, std optical Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, std disk 		
Memory - std/max ⁸	128 or 256MB std / 2GB max												
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used												
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)												
Graphics controller (one of following)	<ul style="list-style-type: none"> Integrated Intel Extreme™ Graphics / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector NVIDIA GeForce4 MX 420 / AGP 4X adapter / GeForce4 MX GPU / 64MB std and max 333MHz DDR-SDRAM / 350MHz RAMDAC / two connectors: analog DB-15, S-Video out for TV-out ATI Radeon 7000 / AGP 4X adapter / Radeon GPU / 64MB std and max 332MHz DDR-SDRAM / 300MHz RAMDAC / one analog DB-15 connector 												
Disk	40 or 80GB, ATA-100, 7200 rpm, rubber vibration dampening mounts												
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)												
Diskette drive	3.5" 1.44MB diskette drive												
CD-ROM	Some: 48X-20X ⁴ CD-ROM												
CD-RW	Some: 40X/12X/40X Max ⁴ CD-RW; 2EU: 48X/24X/48X Max ⁴ CD-RW												
Combo	A1U: 32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo												
Cables	Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop to disk)												
Chipset	Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse												
Front ports	All: two USB (Version 2.0)												
Rear ports	61U/83U/85U/D1U: microphone in (mono), headphone out (stereo) Four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)												
Audio	Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec												
Audio connectors	Back: microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]												
Speakers	External active speakers / Jazz Infinity [®] / 2-piece / 3 watts per channel / blk color												
Ethernet	10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / PXE / Wake on LAN [®]												
Modem	56K ¹⁰ V.90 data/fax soft modem / Conexant [®] chipset / soft HSF1 modem / PCI adapter												
Keyboard / mouse	Some: 104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector) / IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector) Some: IBM Rapid Access™ IIIe Keyboard [RAK3] (USB / no USB hub or ports) / IBM ScrollPoint [®] III mouse (USB)												
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)												
Power supply	185 watts with variable speed fan / universal / manual switch												
Preload with Windows XP Home⁵	Microsoft® Windows® XP Home Edition - Disk-to-Disk Recovery (in Service Partition)												
Preloaded (all)	<ul style="list-style-type: none"> Access IBM Access Support Connected Client Norton AntiVirus (OEM Version) PC-Doctor™ Software Delivery Assistant Veritas RecordNOW and DLA (Combo and CD-RW models) 												
Downloadable (all)	<ul style="list-style-type: none"> IBM Rapid Restore™ PC Remote Deployment Manager IBM Director Agent (not XP Home) Software Migration Assistant Update Connector™¹⁵ 												
License - CD not included (all)	- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client												
Options	<ul style="list-style-type: none"> 128MB PC2100 CL2.5 NP DDR UDIMM 33L3302 256MB PC2100 CL2.5 NP DDR UDIMM 33L3304 512MB PC2100 CL2.5 NP DDR UDIMM 33L3306 1GB PC2100 CL2.5 NP DDR UDIMM 33L3308 80GB IDE Disk ATA-100 (7200 rpm) 09N4248 IBM 16X Max⁴ DVD-ROM Drive (black) 22P6950 48X/24X/48X Max⁴ CD-RW internal (blk) 22P6997 32X/10X/40X/16X Max¹¹ CD-RW/DVD-ROM Combo drive (black) 22P6973 IBM DVD-RAM/DVD-R Drive (black) 22P6959 IBM Portable USB 2.0 20GB Hard Disk 09N4211 IBM 128MB USB 2.0 Memory Key 22P8998 IBM G78 17" (16.0" viewable) Monitor (blk) 6627KAN IBM T541 15" Flat Panel Monitor (black) 9512AB1 IBM T560 15" Flat Panel Monitor (black) 6656HG2 IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N IBM 675 Uninterruptible Power Supply 33L3478 IBM High Rate Writable LAN PCI Adapter 22P6901 Kensington® MicroSaver® Desktop Lock 06P3839 Other options at ibm.com/pc/us/accessories 												
											SYSTEMS MANAGEMENT		
											<ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b SMBIOS 2.3.1-compliant DMI 2.0-compliant 		
											SECURITY		
											<ul style="list-style-type: none"> U bolt anchoring feature (U-bolt is optional; supports optional padlock) Security slot (for attachment of optional cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control 		
											LIMITED WARRANTY¹		
											<ul style="list-style-type: none"> 1 year parts and labor International Warranty Service⁹ On site, 8 am - 5 pm, Mon - Fri, 2nd business day response time On site service upgrade options (in eligible locations):⁷ <ul style="list-style-type: none"> 1 year IOR 9x5, 4 hour response (ServicePac[®] part number 54P1858) 2 year IOR 9x5, Next Business Day (ServicePac part number 54P1859) 2 year IOR 9x5, 4 hour response (ServicePac part number 54P1860) 3 year IOR 9x5, Next Business Day (ServicePac part number 54P1861) 3 year IOR 9x5, 4 hour response (ServicePac part number 54P1862) 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ 		

See footnotes for important warranty information
US models announced on August 27, 2002 or November 19, 2002
US models withdrawn effective May or August 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁸	EIDE disk and rpm	Optical	Graphics	PCI modem	External Speakers	Preload	Workhorse or Entry	Available date
A30p	8311-4NU	4x5	Pentium® 4	2.4	512KB	533	128MB	40GB ² 7200	CD-RW	Extreme™	Modem	Speakers	XP Home ⁵	No	Mar 03
A30p	8311-4PU	4x5	Pentium 4	2.4	512KB	533	128MB	40GB 5400	CD-ROM	Extreme			XP Home	Entry	Mar 03
A30p	8311-8DU	4x5	Pentium 4	2.53	512KB	533	128MB	80GB 7200	CD-RW	Extreme	Modem	Speakers	XP Home	No	Mar 03
A30p	8311-96U	4x5	Pentium 4	2.66	512KB	533	128MB	40GB 7200	CD-ROM	Extreme	Modem	Speakers	XP Home	No	Mar 03
A30p	8311-D3U	4x5	Pentium 4	2.8	512KB	533	128MB	40GB 7200	CD-ROM	Extreme	Modem	Speakers	XP Home	No	Mar 03

Positioning Processor	<i>Great technology and affordable prices</i> Intel® Pentium 4 at 2.4, 2.53, 2.66, or 2.8GHz with 533MHz frontside bus (FSB)		
L2 cache Implementation	512KB std and max / ECC / full speed Processor and L2 cache in FC-PGA2 in mPGA478B socket		
Memory - std/max ⁸	128MB std / 2GB max Two 184-pin gold plated DIMM sockets / one socket used		
Memory - sockets	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)		
Memory - type			
Graphics controller	Integrated Intel Extreme™ Graphics / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector		
Disk	40 or 80GB , ATA-100, 5400 or 7200 rpm, rubber vibration dampening mounts		
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)		
Diskette drive	3.5" 1.44MB diskette drive		
CD-ROM	<i>Some:</i> 48X-20X ⁴ CD-ROM		
CD-RW	<i>Some:</i> 48X/24X/48X Max ⁴ CD-RW		
Cables	Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop to disk)		
Chipset	Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse		
Front ports	All: two USB (Version 2.0)		
Rear ports	Four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)		
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / AD1981A codec		
Audio connectors	<i>Back:</i> microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]		
Speakers	External active speakers / Jazz Infinity® / 2-piece / 3 watts per channel / blk color		
Ethernet	10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100 Network Connection / 32-bit PCI 2.2 / PXE / Wake on LAN®		
Modem	<i>Some:</i> 56K ¹⁰ V.90 data/fax soft modem / Conexant® chipset / soft HSF i modem / PCI adapter		
Keyboard	104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector) /		
Mouse	IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector)		
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)		
Power supply	185 watts with variable speed fan / universal / manual switch		

Tower
<ul style="list-style-type: none"> Stealth black color 7.5" W X 16.0"D X 16.3"H 191mm W X 406mm D X 413mm H 20.0 to 25.0 lb (9.1 to 10.2 kg) Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots
Bay ① 5.25", HH 1.6", access, std optical Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, std disk
Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v) - some Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) - modem Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v)

	<p>SYSTEMS MANAGEMENT</p> <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b SMBIOS 2.3.1-compliant DMI 2.0-compliant
	<p>SECURITY</p> <ul style="list-style-type: none"> U bolt anchoring feature (U-bolt is optional; supports optional padlock) Security slot (for attachment of optional cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control

<p>Preload with Windows XP Home⁵</p> <ul style="list-style-type: none"> Microsoft® Windows® XP Home Edition - Disk-to-Disk Recovery (in Service Partition) <p>Preloaded (all)</p> <ul style="list-style-type: none"> Access IBM Access Support IBM Rapid Restore™ PC Update Connector™.15 Norton AntiVirus (OEM Version) PC-Doctor™ Veritas RecordNOW and DLA (CD-RW models) <p>Downloadable (all)</p> <ul style="list-style-type: none"> System Migration Assistant Software Delivery Assistant Remote Deployment Manager IBM Director Agent (not XP Home) <p>License - CD not included (all)</p> <ul style="list-style-type: none"> Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client 	<p>Options</p> <table border="0"> <tr><td>128MB PC2100 CL2.5 NP DDR UDIMM</td><td>33L3302</td></tr> <tr><td>256MB PC2100 CL2.5 NP DDR UDIMM</td><td>33L3304</td></tr> <tr><td>512MB PC2100 CL2.5 NP DDR UDIMM</td><td>33L3306</td></tr> <tr><td>1GB PC2100 CL2.5 NP DDR UDIMM</td><td>33L3308</td></tr> <tr><td>80GB IDE Disk ATA-100 (7200 rpm)</td><td>09N4248</td></tr> <tr><td>120GB IDE Disk ATA-100 (7200 rpm)</td><td>09N4249</td></tr> <tr><td>IBM 16X Max⁴ DVD-ROM Drive (black)</td><td>22P6950</td></tr> <tr><td>48X/24X/48X Max⁴ CD-RW internal (blk)</td><td>22P6997</td></tr> <tr><td>32X/10X/40X/16X Max¹¹ CD-RW/DVD-ROM Combo drive (black)</td><td>22P6973</td></tr> <tr><td>IBM DVD-RAM/DVD-R Drive (black)</td><td>22P6959</td></tr> <tr><td>IBM Portable USB 2.0 20GB Hard Disk</td><td>09N4211</td></tr> <tr><td>IBM 128MB USB 2.0 Memory Key</td><td>22P8998</td></tr> <tr><td>IBM G78 17" (16.0" viewable) Monitor (blk)</td><td>6627KAN</td></tr> <tr><td>IBM T541 15" Flat Panel Monitor (black)</td><td>9512AB1</td></tr> <tr><td>IBM T560 15" Flat Panel Monitor (black)</td><td>6656HG2</td></tr> <tr><td>IBM T860 18.1" Flat Panel Monitor (black)</td><td>9494HB0</td></tr> <tr><td>IBM P97 17" (18.0" viewable) Monitor (blk)</td><td>6651U3N</td></tr> <tr><td>IBM 675 Uninterruptable Power Supply</td><td>33L3478</td></tr> <tr><td>IBM High Rate Wireless LAN PCI Adapter</td><td>22P6901</td></tr> <tr><td>Kensington® MicroSaver® Desktop Lock</td><td>06P3839</td></tr> </table> <p>Other options at ibm.com/pc/us/accessories</p>	128MB PC2100 CL2.5 NP DDR UDIMM	33L3302	256MB PC2100 CL2.5 NP DDR UDIMM	33L3304	512MB PC2100 CL2.5 NP DDR UDIMM	33L3306	1GB PC2100 CL2.5 NP DDR UDIMM	33L3308	80GB IDE Disk ATA-100 (7200 rpm)	09N4248	120GB IDE Disk ATA-100 (7200 rpm)	09N4249	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950	48X/24X/48X Max ⁴ CD-RW internal (blk)	22P6997	32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	22P6973	IBM DVD-RAM/DVD-R Drive (black)	22P6959	IBM Portable USB 2.0 20GB Hard Disk	09N4211	IBM 128MB USB 2.0 Memory Key	22P8998	IBM G78 17" (16.0" viewable) Monitor (blk)	6627KAN	IBM T541 15" Flat Panel Monitor (black)	9512AB1	IBM T560 15" Flat Panel Monitor (black)	6656HG2	IBM T860 18.1" Flat Panel Monitor (black)	9494HB0	IBM P97 17" (18.0" viewable) Monitor (blk)	6651U3N	IBM 675 Uninterruptable Power Supply	33L3478	IBM High Rate Wireless LAN PCI Adapter	22P6901	Kensington® MicroSaver® Desktop Lock	06P3839
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	<p>LIMITED WARRANTY¹</p> <ul style="list-style-type: none"> 1 year parts and labor International Warranty Service⁹ On site, 8 am - 5 pm, Mon - Fri, 2nd business day response time On site service upgrade options (in eligible locations):⁷ <ul style="list-style-type: none"> 1 year IOR 9x5, 4 hour response (ServicePac® part number 54P1858) 2 year IOR 9x5, Next Business Day (ServicePac part number 54P1859) 2 year IOR 9x5, 4 hour response (ServicePac part number 54P1860) 3 year IOR 9x5, Next Business Day (ServicePac part number 54P1861) 3 year IOR 9x5, 4 hour response (ServicePac part number 54P1862) 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ 																																								

See footnotes for important warranty information
US models announced March 4, 2003
US models withdrawn effective August 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁸	EIDE disk and rpm	Optical	Graphics	PCI modem	External speakers	Preload	Available date
A30	8313-52U	3x4	Celeron®	1.7	128KB	400	128MB	40GB ² 5400	CD-ROM	Extreme™ GMCH	Modem	Speakers	XP Home ⁵	Sep 2002
A30	8313-53U	3x4	Celeron	1.7	128KB	400	128MB	40GB 5400	CD-ROM	Extreme GMCH			XP Pro	Sep 2002
A30	8313-55U	3x4	Celeron	1.7	128KB	400	256MB	40GB 5400	CD-ROM	Extreme GMCH			XP Pro	Sep 2002
A30	8313-5BU	3x4	Celeron	1.8	128KB	400	128MB	40GB 5400	CD-ROM	Extreme GMCH	Modem	Speakers	XP Home	Sep 2002
A30	8313-5CU	3x4	Celeron	1.8	128KB	400	128MB	40GB 5400	CD-ROM	Extreme GMCH			XP Pro	Sep 2002
A30	8313-B2U	3x4	Celeron	2.0	128KB	400	128MB	40GB 5400	CD-ROM	Extreme GMCH	Modem	Speakers	XP Home	Dec 2002
A30	8313-B3U	3x4	Celeron	2.0	128KB	400	128MB	40GB 5400	CD-ROM	Extreme GMCH			XP Pro	Dec 2002
A30	8313-B4U	3x4	Celeron	2.1	128KB	400	128MB	40GB 5400	CD-ROM	Extreme GMCH	Modem	Speakers	XP Home	Mar 2003
A30	8313-B5U	3x4	Celeron	2.1	128KB	400	128MB	40GB 5400	CD-ROM	Extreme GMCH			XP Pro	Mar 2003
A30	8313-B6U	3x4	Celeron	2.2	128KB	400	128MB	40GB 5400	CD-ROM	Extreme GMCH	Modem	Speakers	XP Home	Mar 2003
A30	8313-B7U	3x4	Celeron	2.2	128KB	400	128MB	40GB 5400	CD-ROM	Extreme GMCH			XP Pro	Mar 2003

Positioning *Great technology and affordable prices*
 Processor **Intel® Celeron 1.7, 1.8, 2.0, 2.1 or 2.2GHz** with 400MHz frontside bus (FSB)
 L2 cache **128KB** std and max / ECC / full speed
 Implementation Processor and L2 cache in FC-PGA2 in mPGA478B socket

Memory - std/max⁸ **128 or 256MB std / 2GB max**
 Memory - sockets Two 184-pin gold plated DIMM sockets / one socket used
 Memory - type **PC2100 266MHz DDR-SDRAM** / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)

Graphics controller **Integrated Intel Extreme™ Graphics** / Direct AGP / in 845GL GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector

Disk **40GB**, ATA-100, 5400 rpm, rubber vibration dampening mounts
 Disk controller Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)
 Diskette drive 3.5" 1.44MB diskette drive
 CD-ROM 48X-20X⁴ CD-ROM / bootable
 Cables Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop cable to disk)

Chipset **Intel 845GL chipset** / 82845GL Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse

Ports *Front:* two USB (Version 2.0)
Back: four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)

Audio Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec

Audio connectors *Back:* microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]
 Speaker *Some:* external active speakers / Jazz Infinity® / 2-piece / 6 watts / black color
 Beeper One internal beeper
 Ethernet 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100 Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN®

Modem *Some:* 56K¹⁰ V.90 data/fax soft modem / Conexant® chipset / soft HSF modem / PCI adapter

Keyboard 104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector)
 Mouse IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector)
 Cooling fans Three variable speed fans (power supply, fansink, rear fan)
 Power supply 185 watts with variable speed fan / universal / manual switch



Bay ① 5.25", HH 1.6", access, std CD-ROM
 Bay ② 5.25", HH 1.6" access, open
 Bay ③ 3.5", SL 1", access, std diskette
 Bay ④ 3.5", SL 1", no access, std disk

Slot 1: full-length, full-height, 32-bit PCI 2.2 (5v) - used in
 Slot 2: full-length, full-height, 32-bit PCI 2.2 (5v) some
 Slot 3: full-length, full-height, 32-bit PCI 2.2 (5v)

- Stealth black color
- 16.7" W X 16.3" D X 5.5" H
- 425mm W X 414mm D X 140mm H
- 22 to 25 lb (10.0 to 11.4 kg)
- Bay 1 and 2 in cage flips up (latched and pivoting)
- Bay 3 and 4 in cage flips up (latched and pivoting)
- Toolless rails for disk mounting
- Toolless cover removal; toolless PCI slots

SYSTEMS MANAGEMENT

- PC 2001-compliant
- Advanced Power Management 1.2
- Advanced Configuration and Power Interface (ACPI) 1.0b
- SMBIOS 2.3.1-compliant
- DMI 2.0-compliant

SECURITY

- U bolt anchoring feature (U-bolt is optional; supports optional padlock)
- Security slot (for attachment of optional cable lock)
- Power-on password
- Administrator password
- Boot sequence control
- Diskette boot inhibit
- Boot without keyboard or mouse
- Diskette and disk I/O control
- Serial/parallel I/O control

Preload with Windows XP Professional ⁵	Options
Microsoft® Windows® XP Professional Edition	128MB PC2100 CL2.5 NP DDR UDIMM 33L3302
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM 33L3304
Preload with Windows XP Home⁵	512MB PC2100 CL2.5 NP DDR UDIMM 33L3306
Microsoft Windows XP Home Edition	1GB PC2100 CL2.5 NP DDR UDIMM 33L3308
- Disk-to-Disk Recovery (in Service Partition)	80GB IDE Disk ATA-100 (7200 rpm) 09N4248
Preloaded (all)	IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950
• Access IBM	48X/24X/48X Max ⁴ CD-RW internal (blk) 22P6997
• Access Support	32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM 22P6973
• IBM Rapid Restore™ PC	Combo drive (black) 22P6959
• Update Connector™ ¹⁵	IBM DVD-RAM/DVD-R Drive (black) 22P6970
• Norton AntiVirus (OEM Version)	IBM Multi-Burner internal (black) 22P6970
• PC-Doctor™	IBM Portable USB 2.0 20GB Hard Disk 09N4211
Downloadable (all)	lomega Zip 750MB USB 2.0 Drive 22P7099
• Remote Deployment Manager	IBM 128MB USB 2.0 Memory Key 22P8998
• Software Delivery Assistant	IBM G78 17" (16.0" viewable) Monitor (blk) 6627KAN
• Software Migration Assistant	IBM T541 15" Flat Panel Monitor (black) 9512AB1
• IBM Director Agent (not XP Home)	IBM T560 15" Flat Panel Monitor (black) 6656HG2
License - CD not included (all)	IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	IBM Wireless keyboard and mouse (black) 22P5170
	IBM 675 Uninterruptable Power Supply 33L3478
	IBM High Rate Wireless LAN PCI Adapter 22P6901
	Kensington® MicroSaver® Desktop Lock 06P3839
	Other options at ibm.com/pc/us/accessories

LIMITED WARRANTY¹

- ⇨ 3 year parts / 1 year labor
- ⇨ International Warranty Service⁹
- ⇨ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time
- ⇨ 2nd/3rd year: parts exchange only, call 1-800-772-2227
- ⇨ On site service upgrade options (in eligible locations):⁷
 - 3 year IOR 9x5, Next Business Day (ServicePac® part number 30L9199)
 - 3 year IOR 9x5, 4 hour response (ServicePac part number 41L2732)
 - 3 year IOR 24x7, 4 hour response (ServicePac part number 31L2724)
 - 4 year IOR 9x5, Next Business Day (ServicePac part number 69P9158)
 - 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9159)
 - 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9160)
- ⇨ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹

See footnotes for important warranty information
 US models announced on August 27 or November 19, 2002, or March 4, 2003
 US models withdrawn effective May, June, or August 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁸	EIDE disk GB rpm	Optical	Graphics	Audio front panel	Preload	Available date
A30	8315-11U	3x5	Pentium® 4	1.8	256KB	400	128MB	40GB ² Value	CD-ROM	Extreme™ GMCH		Windows® XP Pro ⁵	Jun 2002
A30	8315-12U	3x5	Pentium 4	1.8	256KB	400	128MB	40GB 7200	CD-ROM	Extreme GMCH	Yes	Windows XP Home	Jun 2002
A30	8315-23U	3x5	Pentium 4	2.0	512KB	400	128MB	40GB Value	CD-ROM	Extreme GMCH		Windows XP Pro	Jun 2002
A30	8315-37U	3x5	Pentium 4	2.2	512KB	400	128MB	40GB Value	CD-ROM	Extreme GMCH		Windows XP Pro	Jun 2002
A30	8315-42U	3x5	Pentium 4	2.4	512KB	400	128MB	40GB Value	CD-ROM	Extreme GMCH		Windows XP Pro	Jun 2002

Positioning	<i>Great technology and affordable prices</i>		Tower
Processor	Intel® Pentium 4 at 1.8, 2.0, 2.2, 2.4GHz with 400MHz FSB		<ul style="list-style-type: none"> 7.5" W X 15.7"D X 16.3"H 190mm W X 399mm D X 415mm H 22.5 to 29.5 lb (10.2 to 13.4 kg) Stealth black color Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots
L2 cache	256 or 512KB std and max / ECC / full speed		
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket		
Memory - std/max ⁸	128MB std / 1GB max		
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used		Bay ① 5.25", HH 1.6", access, std CD-ROM Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, std disk
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)		
Graphics controller	Integrated Intel Extreme™ Graphics / Direct AGP / in 845GL GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector		Slot 1: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v)
Disk	40 or 80GB, ATA-100, rubber vibration dampening mounts		
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)		SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b System Management BIOS DMI 2.0-compliant
Diskette drive	3.5" 1.44MB diskette drive		
CD-ROM	48X/20X ⁴ CD-ROM / bootable		SECURITY <ul style="list-style-type: none"> U bolt anchoring feature (U-bolt is optional; supports optional padlock) Security slot (for attachment of optional cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control
Cables	Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop cable to disk)		
Chipset	Intel 845GL chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse		LIMITED WARRANTY¹ <ul style="list-style-type: none"> 1 year parts and labor International Warranty Service⁹ On site, 8 am - 5 pm, Mon - Fri, 2nd business day response time On site service upgrade options (in eligible locations)⁷: <ul style="list-style-type: none"> 1 year 9x5 4 hour response (ServicePac® part number 54P1858) 2 year 9x5 Next Business Day (ServicePac part number 54P1859) 2 year 9x5 4 hour response (ServicePac part number 54P1860) 3 year 9x5 Next Business Day (ServicePac part number 54P1861) 3 year 9x5 4 hour response (ServicePac part number 54P1862) 24x7¹⁴ toll-free support for warranty issues during the warranty period¹
Front ports	All: two USB (Vers 2.0), 12U: microphone in (mono), headphone out (stereo) [all 3.5mm]		
Rear ports	Four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)		
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec		
Audio connectors	Back: microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]		
Beeper	One internal beeper		
Ethernet	10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN®		
Keyboard	104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector)		
Mouse	IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector)		
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)		
Power supply	185 watts with variable speed fan / universal / manual switch		

Preload with Windows XP Professional ⁵	Options	
Microsoft® Windows® XP Professional Edition	128MB PC2100 CL2.5 NP DDR UDIMM	33L3302
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM	33L3304
Preload with Windows XP Home⁵	512MB PC2100 CL2.5 NP DDR UDIMM	33L3306
Microsoft Windows XP Home Edition	80GB IDE Disk ATA-100 (7200 rpm)	09N4248
- Disk-to-Disk Recovery (in Service Partition)	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
Preloaded (all)	48X/24X/48X Max ⁴ CD-RW internal (blk)	22P6997
• Access IBM	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	10K3790
• Access Support Connected Client	IBM DVD-RAM/DVD-R Drive (black)	22P6959
• Norton AntiVirus (OEM Version)	IBM Portable USB 2.0 20GB Hard Disk	09N4211
• PC-Doctor™	IBM 128MB USB 2.0 Memory Key	22P8998
• Software Delivery Assistant	IBM G78 17" (16.0" viewable) Monitor (blk)	66274AN
Downloadable (all)	IBM T541 15" Flat Panel Monitor (black)	9512AB1
• IBM Rapid Restore™ PC	IBM T560 15" Flat Panel Monitor (black)	6656HG2
• IBM Data Transfer	IBM P97 17" (18.0" viewable) Monitor (blk)	6651U3N
• IBM Director Agent	IBM Wireless keyboard and mouse (blk)	22P5170
• Software Migration Assistant	IBM 675 Uninterruptable Power Supply	33L3478
• Update Connector™ ¹⁵	IBM High Rate Wireless LAN PCI Adapter	22P6901
License - CD not included (all)	Kensington® MicroSaver® Desktop Lock	06P3839
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	Other options at ibm.com/pc/us/accessories	

See footnotes for important warranty information
US models announced June 4, 2002
US models withdrawn effective October 2002, December 2002, or August 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ^a	EIDE disk and rpm	Optical	Graphics	PCI Modem	External Speakers	Preload	Available date
A30	8315-52U	3x5	Celeron®	1.7	128KB	400	128MB	20GB ² Value	CD-ROM	Extreme™ GMCH	Modem	Speakers	XP Home ⁵	Sep 2002
A30	8315-53U	3x5	Celeron	1.7	128KB	400	128MB	20GB Value	CD-ROM	Extreme GMCH			XP Pro	Sep 2002
A30	8315-54U	3x5	Celeron	1.7	128KB	400	128MB	40GB Value	CD-ROM	Extreme GMCH	Modem	Speakers	XP Home	Dec 2002
A30	8315-5BU	3x5	Celeron	1.8	128KB	400	128MB	40GB 7200	CD-RW	Extreme GMCH	Modem	Speakers	XP Home	Sep 2002
A30	8315-5CU	3x5	Celeron	1.8	128KB	400	128MB	20GB Value	CD-ROM	Extreme GMCH	Modem	Speakers	XP Home	Sep 2002
A30	8315-5DU	3x5	Celeron	1.8	128KB	400	128MB	20GB Value	CD-ROM	Extreme GMCH			XP Pro	Sep 2002
A30	8315-B1U	3x5	Celeron	2.0	128KB	400	128MB	40GB Value	CD-ROM	Extreme GMCH			XP Pro	Dec 2002
A30	8315-B2U	3x5	Celeron	2.0	128KB	400	128MB	40GB Value	CD-ROM	Extreme GMCH	Modem	Speakers	XP Home	Dec 2002
A30	8315-61U	3x5	Pentium® 4	1.8	512KB	400	128MB	40GB 7200	CD-ROM	Extreme GMCH			XP Pro	Sep 2002
A30	8315-62U	3x5	Pentium 4	1.8	512KB	400	128MB	40GB 7200	CD-ROM	Extreme GMCH	Modem	Speakers	XP Home	Sep 2002
A30	8315-24U	3x5	Pentium 4	2.0	512KB	400	128MB	40GB 7200	CD-ROM	Extreme GMCH	Modem		XP Home	Sep 2002
A30	8315-39U	3x5	Pentium 4	2.2	512KB	400	128MB	40GB 7200	CD-ROM	Extreme GMCH	Modem		XP Home	Sep 2002
A30	8315-91U	3x5	Pentium 4	2.6	512KB	400	128MB	40GB 7200	CD-ROM	Extreme GMCH			XP Pro	Sep 2002

Positioning Processor *Great technology and affordable prices*
Intel® Celeron 1.7, 1.8, or 2.0GHz with 400MHz frontside bus (FSB) or **Intel Pentium 4 at 1.8, 2.0, 2.2, or 2.6GHz** with 400MHz FSB
 L2 cache *Celeron: 128KB std and max / ECC / full speed*
Pentium 4: 512KB std and max / ECC / full speed
 Implementation Processor and L2 cache in FC-PGA2 in mPGA478B socket
 Memory - std/max^a **128MB std / 2GB max**
 Memory - sockets Two 184-pin gold plated DIMM sockets / one socket used
 Memory - type **PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)**
 Graphics controller **Integrated Intel Extreme™ Graphics / Direct AGP / in 845GL GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+)** / DVMT / 15-pin analog D-sub connector
 Disk **20 or 40GB**, ATA-100, rubber vibration dampening mounts
 Disk controller Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)
 Diskette drive 3.5" 1.44MB diskette drive
 CD-ROM *Some: 48X-20X⁴ CD-ROM / bootable*
 CD-RW *Some: 40X/12X/40X Max⁴ CD-RW / bootable*
 Cables Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop cable to disk)

Tower

- Stealth black color
- 7.5" W X 16.0"D X 16.3"H
- 191mm W X 406mm D X 413mm H
- 20.0 to 25.0 lb (9.1 to 10.2 kg)
- Handle on top front
- Disk bay pivots forward
- Power supply latched and pivots from left side
- Toolless rails for disk mounting
- Toolless cover removal
- Toolless PCI slots

Bay ① 5.25", HH 1.6", access, std optical
 Bay ② 5.25", HH 1.6", access, open
 Bay ③ 3.5", SL 1", access, open
 Bay ④ 3.5", SL 1", access, std diskette
 Bay ⑤ 3.5", SL 1", no access, std disk

Slot 1: 3/4-length, full-height, 32-bit PCI 2.2 (5v) - used in
 Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) some
 Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v)

Chipset **Intel 845GL chipset / 82845GL Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4)** for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse
 Front ports Two USB (Version 2.0)
 Rear ports Four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)
 Audio Integrated digital audio / SoundMAX[®] 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec
 Audio connectors *Back:* microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]
 Speakers *Some:* external active speakers / Jazz Infinity[®] / 2-piece / 6 watts / black color
 Beeper One internal beeper
 Ethernet 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN[®]
 Modem *Some:* 56K¹⁰ V.90 data/fax soft modem / Conexant[®] chipset / PCI adapter
 Keyboard 104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector)
 Mouse IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector)
 Cooling fans Three variable speed fans (power supply, fansink, rear fan)
 Power supply 185 watts with variable speed fan / universal / manual switch

SYSTEMS MANAGEMENT

- PC 2001-compliant
- Advanced Power Management 1.2
- Advanced Configuration and Power Interface (ACPI) 1.0b
- SM BIOS 2.3.1-compliant
- DMI 2.0-compliant

SECURITY

- U bolt anchoring feature (U-bolt is optional; supports optional padlock)
- Security slot (for attachment of optional cable lock)
- Power-on password
- Administrator password
- Boot sequence control
- Diskette boot inhibit
- Boot without keyboard or mouse
- Diskette and disk I/O control
- Serial/parallel I/O control

Preload with Windows XP Professional ⁵	Options
Microsoft® Windows® XP Professional Edition	128MB PC2100 CL2.5 NP DDR UDIMM 33L3302
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM 33L3304
Preload with Windows XP Home⁵	512MB PC2100 CL2.5 NP DDR UDIMM 33L3306
Microsoft Windows XP Home Edition	1GB PC2100 CL2.5 NP DDR UDIMM 33L3308
- Disk-to-Disk Recovery (in Service Partition)	80GB IDE Disk ATA-100 (7200 rpm) 09N4248
Preloaded (all)	IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950
• Access IBM	48X/24X/48X Max ⁴ CD-RW internal (blk) 22P6997
• Access Support Connected Client	32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM
• Norton AntiVirus (OEM Version)	Combo drive (black) 22P6973
• PC-Doctor™	IBM DVD-RAM/DVD-R Drive (black) 22P6959
• Software Delivery Assistant	IBM Multi-Burner Internal (black) 22P6970
• Veritas RecordNOW and DLA (CD-RW)	IBM Portable USB 2.0 20GB Hard Disk 09N4211
Downloadable (all)	lomega® Zip 750MB USB 2.0 Drive 22P7099
• IBM Rapid Restore™ PC	IBM 128MB USB 2.0 Memory Key 22P8998
• Remote Deployment Manager	IBM G78 17" (16.0" viewable) Monitor (blk) 6627KAN
• IBM Director Agent (not XP Home)	IBM T541 15" Flat Panel Monitor (black) 9512AB1
• Software Migration Assistant	IBM T560 15" Flat Panel Monitor (black) 6656HG2
• Update Connector™ ¹⁵	IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N
License - CD not included (all)	IBM Wireless keyboard and mouse (blk) 22P5170
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	IBM 675 Uninterruptable Power Supply 33L3478
	IBM High Rate Wireless LAN PCI Adapter 22P6901
	Kensington® MicroSaver® Desktop Lock 06P3839
	Other options at ibm.com/pc/us/accessories

LIMITED WARRANTY¹

- 1 year parts and labor
- International Warranty Service[®]
- On site, 8 am - 5 pm, Mon - Fri, 2nd business day response time
- On site service upgrade options (in eligible locations):⁷
 - 1 year IOR 9x5, 4 hour response (ServicePac[®] part number 54P1858)
 - 2 year IOR 9x5, Next Business Day (ServicePac part number 54P1859)
 - 2 year IOR 9x5, 4 hour response (ServicePac part number 54P1860)
 - 3 year IOR 9x5, Next Business Day (ServicePac part number 54P1861)
 - 3 year IOR 9x5, 4 hour response (ServicePac part number 54P1862)
- 24x7¹⁴ toll-free support for warranty issues during the warranty period¹

See footnotes for important warranty information
 US models announced August 27, 2002 or November 19, 2002
 US models withdrawn effective December 2002, February 2003, May 2003, June 2003, or August 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ^a	EIDE disk and rpm	Optical	Graphics	PCI modem	External speakers	Preload	Workhorse or Entry	Available date
A30	8315-B4U	3x5	Celeron®	2.0	128KB	400	128MB	80GB ² 7200	CD-RW	Extreme™	Modem	Speakers	XP Home ⁵	No	Mar 2003
A30	8315-B9U	3x5	Celeron	2.0	128KB	400	128MB	40GB 5400	CD-ROM	Extreme			XP Home	Entry	Mar 2003
A30	8315-B5U	3x5	Celeron	2.1	128KB	400	128MB	40GB 7200	CD-ROM	Extreme	Modem	Speakers	XP Home	No	Mar 2003
A30	8315-B6U	3x5	Celeron	2.1	128KB	400	128MB	40GB 7200	CD-ROM	Extreme			XP Pro	No	Mar 2003
A30	8315-B7U	3x5	Celeron	2.2	128KB	400	128MB	40GB 7200	CD-ROM	Extreme	Modem	Speakers	XP Home	No	Mar 2003
A30	8315-B8U	3x5	Celeron	2.2	128KB	400	128MB	40GB 7200	CD-ROM	Extreme			XP Pro	No	Mar 2003

Positioning *Great technology and affordable prices*
 Processor **Intel® Celeron 2.0, 2.1, or 2.2GHz** with 400MHz frontside bus (FSB)
 L2 cache **128KB** std and max / ECC / full speed
 Implementation Processor and L2 cache in FC-PGA2 in mPGA478B socket

Memory - std/max⁸ **128MB std** / 2GB max
 Memory - sockets Two 184-pin gold plated DIMM sockets / one socket used
 Memory - type **PC2100 266MHz DDR-SDRAM** / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)

Graphics controller **Integrated Intel Extreme™ Graphics** / Direct AGP / in 845GL GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector

Disk **40 or 80GB**, ATA-100, 5400 or 7200 rpm
 rubber vibration dampening mounts
 Disk controller Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)
 Diskette drive 3.5" 1.44MB diskette drive
 CD-ROM *Some: 48X-20X⁴ CD-ROM / bootable*
 CD-RW *Some: 48X/24X/48X Max⁴ CD-RW / bootable*
 Cables Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop cable to disk)

Chipset **Intel 845GL chipset** / 82845GL Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse

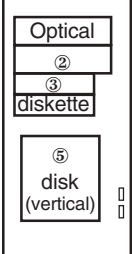
Front ports Two USB (Version 2.0)
 Rear ports Four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)

Audio Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec
Back: microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]
Some: external active speakers / Jazz Infinity® / 2-piece / 6 watts / black color
 One internal beeper
 Ethernet 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100 Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN®
Some: 56K¹⁰ V.90 data/fax soft modem / Conexant® chipset / PCI adapter

Keyboard 104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector)
 Mouse IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector)
 Cooling fans Three variable speed fans (power supply, fansink, rear fan)
 Power supply 185 watts with variable speed fan / universal / manual switch

Tower

- Stealth black color
- 7.5" W X 16.0"D X 16.3"H
- 191mm W X 406mm D X 413mm H
- 20.0 to 25.0 lb (9.1 to 10.2 kg)
- Handle on top front
- Disk bay pivots forward
- Power supply latched and pivots from left side
- Toolless rails for disk mounting
- Toolless cover removal
- Toolless PCI slots



Bay ① 5.25", HH 1.6", access, std optical
 Bay ② 5.25", HH 1.6", access, open
 Bay ③ 3.5", SL 1", access, open
 Bay ④ 3.5", SL 1", access, std diskette
 Bay ⑤ 3.5", SL 1", no access, std disk

Slot 1: 3/4-length, full-height, 32-bit PCI 2.2 (5v) - used in
 Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) some
 Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v)

- SYSTEMS MANAGEMENT**
- PC 2001-compliant
 - Advanced Power Management 1.2
 - Advanced Configuration and Power Interface (ACPI) 1.0b
 - SM BIOS 2.3.1-compliant
 - DMI 2.0-compliant

- SECURITY**
- U bolt anchoring feature (U-bolt is optional; supports optional padlock)
 - Security slot (for attachment of optional cable lock)
 - Power-on password
 - Administrator password
 - Boot sequence control
 - Diskette boot inhibit
 - Boot without keyboard or mouse
 - Diskette and disk I/O control
 - Serial/parallel I/O control

Preload with Windows XP Professional ⁵	Options
Microsoft® Windows® XP Professional Edition - Disk-to-Disk Recovery (in Service Partition)	128MB PC2100 CL2.5 NP DDR UDIMM 33L3302 256MB PC2100 CL2.5 NP DDR UDIMM 33L3304 512MB PC2100 CL2.5 NP DDR UDIMM 33L3306
Preload with Windows XP Home⁵	1GB PC2100 CL2.5 NP DDR UDIMM 33L3308
Microsoft Windows XP Home Edition - Disk-to-Disk Recovery (in Service Partition)	80GB IDE Disk ATA-100 (7200 rpm) 09N4248 120GB IDE Disk ATA-100 (7200 rpm) 09N4249 IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950 48X/24X/48X Max ⁴ CD-RW internal (blk) 22P6997 32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 22P6973 IBM DVD-RAM/DVD-R Drive (black) 22P6959 IBM Multi-Burner internal (black) 22P6970 IBM Portable USB 2.0 20GB Hard Disk 09N4211 Iomega® Zip 750MB USB 2.0 Drive 22P7099 IBM 128MB USB 2.0 Memory Key 22P8998 IBM G78 17" (16.0" viewable) Monitor (blk) 6627KAN IBM T541 15" Flat Panel Monitor (black) 9512AB1 IBM T560 15" Flat Panel Monitor (black) 6656HG2 IBM T860 18.1" Flat Panel Monitor (black) 9494HB0 IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N IBM Wireless keyboard and mouse (blk) 22P5170 IBM 675 Uninterruptible Power Supply 33L3478 IBM High Rate Wireless LAN PCI Adapter 22P6901 Kensington® MicroSaver® Desktop Lock 06P3839 Other options at ibm.com/pc/us/accessories
Preloaded (all)	
• Access IBM	
• Access Support	
• IBM Rapid Restore™ PC	
• Update Connector™ ¹⁵	
• Norton AntiVirus (OEM Version)	
• PC-Doctor™	
• Veritas RecordNOW and DLA (CD-RW)	
Downloadable (all)	
• Software Delivery Assistant	
• Software Migration Assistant	
• Remote Deployment Manager	
• IBM Director Agent (not XP Home)	
License - CD not included (all)	
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	

- LIMITED WARRANTY¹**
- ↔ **1 year parts and labor**
 - ↔ **International Warranty Service⁹**
 - ↔ **On site, 8 am - 5 pm, Mon - Fri, 2nd business day response time**
 - ↔ **On site service upgrade options (in eligible locations):⁷**
 - **1 year IOR 9x5, 4 hour response** (ServicePac® part number 54P1858)
 - **2 year IOR 9x5, Next Business Day** (ServicePac part number 54P1859)
 - **2 year IOR 9x5, 4 hour response** (ServicePac part number 54P1860)
 - **3 year IOR 9x5, Next Business Day** (ServicePac part number 54P1861)
 - **3 year IOR 9x5, 4 hour response** (ServicePac part number 54P1862)
 - ↔ **24x7¹⁴ toll-free support for warranty issues during the warranty period¹**

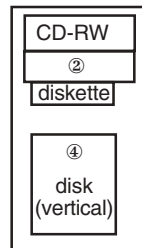
See footnotes for important warranty information
 US models announced March 4, 2003
 US models withdrawn effective August 2003

IBM® NetVista™ A40i (2251) - withdrawn

Name	Type-model	Processor	Speed	Memory	Disk	CD-RW	DVD	Graphics	Ethernet	Modem	Slots/bays	Preload	Available
A40i	2251-TAU	Pentium® III	1GHz ¹ /133	128MB	30GB ²	CD-RW	DVD	ATI® RADEON 32MB	10/100	Modem	4x4	Millennium	Jun 2001
A40i	2251-TEU	Pentium III	1GHz/133	128MB	30GB	CD-RW	None	NVIDIA TNT2 M64 32MB	10/100	Modem	4x4	Millennium	Jun 2001
A40i	2251-VAU	Pentium III	1GHz/133	128MB	30GB	CD-RW	DVD	NVIDIA TNT2 M64 32MB	10/100	Modem	4x4	Millennium	Jun 2001

Processor Implementation L2 cache	Intel® Pentium III 1GHz¹ with 133MHz¹ Front Side Bus Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA) in PGA370 socket 256KB std and max / ECC / full speed
Memory - std/max Memory - sockets Memory - type	128MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM
Graphics - some models	ATI® ALL-IN-WONDER™ RADEON (advanced 3D and multimedia) / AGP 4X adapter / 32MB std and max 166MHz DDR-SGRAM / four connectors on rear of card: one DVI-I connector, one audio/video-out (S-Video or composite), one CATV in (advanced TV tuner), one audio/video-in (S-Video or composite) / Dolby® Digital audio output / MPEG-2 decoder
Graphics - some models	NVIDIA™ TNT2 M64 32MB SDRAM AGP 4X adapter / 1600x1200 at 72Hz / 15-pin analog D-sub connector
Disk Disk controller Diskette drive CD-RW DVD	30GB 7200 rpm, ATA-100, SMART ³ III, SMART Reaction II Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2) 3.5" 1.44MB diskette drive 8X/4X/32X ⁴ CD-RW 12X/40X ⁴ DVD-ROM
Architecture Chip set	Accelerated Hub Architecture / 266MB/sec I/O channel Intel 815E / 82815 Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 (or equivalent) Firmware Hub
USB/serial/parallel Audio	Four USB ports (Vers 1.1), two in back, two in front / two serial / one parallel Integrated digital audio / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1885 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)
Audio connectors Speaker	Line and headphone out / line in / microphone jack (all in back) External active stereo speakers standard
Ethernet controller Modem Enhanced security	10/100 ethernet / controller in ICH2 and adapter in PCI/CNR slot (Intel PRO/100 VE Desktop adapter) / no Alert on LAN 56K V.90 PCI Adapter Does not have daughtercard that is standard in A40p
Keyboard / mouse Power supply	IBM Rapid Access™ II keyboard / IBM ScrollPoint® II mouse 155 watts with variable speed fan / universal / manual switch

Micro Tower 2251



- Bay ① 5.25", HH 1.6", access, std CD-RW
 Bay ② 5.25", HH 1.6", access, open or std DVD
 Bay ③ 3.5", SL 1", access, std diskette
 Bay ④ 3.5", SL 1", no access, std disk
- Slot 1: fullsize, 32-bit AGP 4X (universal) - used by graphics adapter
 Slot 2: three-quarter size, 32-bit PCI 2.2 (5v) with longer slot* - used by ethernet adapter
 Slot 3: three-quarter size, 32-bit PCI 2.2 (5v)
 Slot 4: three-quarter size, 32-bit PCI 2.2 (5v) - used by modem
- * Longer connector has LAN Connect Interface (LCI)
 • Swinging door on Bay 1 to 2 (does not cover Bay 1)
 • Black color with handle on top
- Dimensions (4 slot x 4 bay)
 - 7.6" W X 15.0" D X 15.0" H
 - 194mm W X 381mm D X 381mm H
 - 22.5 lb (maximum configuration)

OPTIONS

64MB SDRAM 133MHz NP DIMM	33L3071
128MB SDRAM 133MHz NP DIMM	33L3073
256MB SDRAM 133MHz NP DIMM	33L3075
Rapid Access Keyboard II (black)	33L3174
10.1GB IDE Hard Drive (Value)	00N8202
15GB IDE Hard Drive (Value)	19K4463
15GB IDE Hard Drive (7200 rpm)	19K4460
20GB IDE Hard Drive (7200 rpm)	19K4461
30GB IDE Hard Drive (7200 rpm)	00N8203
Zip 250MB Internal Drive	00N8078
HiFD 200MB Diskette Drive	20L0543
8X/4X/32X ⁴ CD-RW Internal (black)	33L5020
16X ⁴ max DVD-ROM Option Kit (blk)	10K3576
IBM TR5 10/20GB Int EIDE Tape	20L0549
IBM EtherJet 10/100 PCI Adapter with Wake on LAN	34L1201
IBM EtherJet 10/100 PCI Adapter with Alert on LAN 2	34L1101
IBM EtherJet 10/100 PCI Secure Mgmt Adapter	34L4401
10/100 Etherlink PCI Mgmt Adapter by 3COM	09N3601
V.90 56K PCI Data/Fax Modem	33L4618

SECURITY

- U-Bolt anchoring feature
- Power-on password
- Administrator password
- Boot sequence control
- Diskette boot inhibit
- Diskette write protect
- Boot w/o keyboard or mouse
- Diskette, hardfile, serial, and parallel I/O control

SYSTEMS MANAGEMENT

- SMART Reaction II
- PC 99-compliant
- Advanced Power Management 1.2
- Advanced Configuration and Power Interface (ACPI) 1.0a
- System Management BIOS
- DMI 2.0-compliant
- RPL and DHCP support
- Wake on LAN

PRELOAD⁹

- Microsoft® Windows® Millennium Edition
 - Lotus® SmartSuite® license⁵
 - Lotus Notes® Client 5.0 license⁶
 ♦ Recovery CD-ROM
 ♦ Software Selections CD-ROM

LIMITED WARRANTY^{*,9}

- ⇨ 3 year parts / 1 year labor warranty
- ⇨ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time
- ⇨ 2nd/3rd year: parts exchange only, call 1-800-772-2227
- ⇨ 3 year on site warranty upgrade options available
- ⇨ Post warranty maintenance services available
- ⇨ 24 hour x 7 day telephone, electronic, and Internet support

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US models announced June 5, 2000
 US models withdrawn effective November 2001

No warranties are expressed or implied in this summary
 (2251) © IBM Corp. October 2001

IBM® NetVista™ A40 for small business (6831) - withdrawn

Name	Type-model	Color	Slotxbay	Processor	Speed	Memory	Disk	CD-RW	Graphics	Modem or ethernet	Chip	Preload	Available
A40	6831-EAU	Black	4x4	Pentium® III	866/133	128MB	20GB ²	CD-RW ⁴	AGP 2X GMCH	Modem	815E	Win Millennium	Sep 2000
A40	6831-GAU	Black	4x4	Pentium III	933/133	128MB	30GB	CD-RW	4X NVIDIA 16MB	10/100	815E	Win Millennium	Sep 2000
A40	6831-GBU	Black	4x4	Pentium III	933/133	128MB	30GB	CD-RW	4X NVIDIA 16MB	10/100	815E	Windows 2000	Sep 2000
A40	6831-TAU	Black	4x4	Pentium III	1GHz/133	128MB	20GB	CD-RW	AGP 2X GMCH	10/100	815E	Win Millennium	Jun 2001
A40	6831-VAU	Black	4x4	Pentium III	1GHz/133	128MB	40GB	CD-RW	AGP 2X GMCH	10/100	815E	Win Millennium	Jun 2001
A40	6831-VBU	Black	4x4	Pentium III	1GHz/133	256MB	40GB	CD-RW	AGP 2X GMCH	10/100	815E	Windows 2000	Jun 2001

Processor Implementation	Intel® Pentium III 866MHz ¹ , 933MHz, or 1GHz ¹ with 133MHz Front Side Bus Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA) in PGA370 socket 256KB std and max / ECC / full speed	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> Universal Manageability Services (UM) Desktop Extensions enabled SMART Reaction II PC 99-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0a System Management BIOS DMI 2.0-compliant RPL and DHCP support Wake on LAN
L2 cache	128MB or 256MB std / 512MB max	
Memory - std/max	Two 168-pin gold plated DIMM sockets / one socket used	
Memory - sockets	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM	
Memory - type	SVGA / Direct AGP / in 815E Graphics Memory Controller Hub (GMCH) /	
Graphics - some models	0MB std and max / (DVMT) uses main memory with no display cache / 15-pin analog D-sub connector	
Graphics - some models	NVIDIA™ TNT2 M64 16MB AGP 4X adapter / 15-pin analog D-sub connector	
Disk	ATA-100, Value (30 and 40GB is 7200 rpm), SMART ³ III, SMART Reaction II	
Disk controller	Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2)	
Diskette drive	3.5: 1.44MB diskette drive	
Architecture	Accelerated Hub Architecture / 266MB/sec I/O channel	
Chip set	Intel 815E / 82815 Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub	
CD-RW ¹¹	8X/4X/32X ⁴ CD-RW	
USB/serial/parallel Audio	Four USB ports (Vers 1.1), two in back, two in front / two serial / one parallel Integrated digital audio / software-based audio (done by processor and ICH2) / AC '97 interface / AD1885 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion) Line and headphone out / line in / microphone jack (all in back)	
Audio connectors	One internal speaker / requires externally powered speakers	
Speaker	Some models: 10/100 ethernet / controller in ICH2 and adapter in PCI/CNR slot	
Ethernet controller	(Intel PRO/100 VE Desktop Connection adapter 19K5710) / no Alert on LAN	
Modem	Some models: 56K V.90 PCI modem	
Enhanced security	Does not have daughtercard that is standard in A40p	
Keyboard / mouse	104-key keyboard / IBM ScrollPoint® II mouse	
Power supply	155 watts with variable speed fan / universal / manual switch	
		SECURITY <ul style="list-style-type: none"> U-Bolt anchoring feature Power-on password Administrator password Boot sequence control Diskette boot inhibit Diskette write protect Boot w/o keyboard or mouse Diskette, hardfile, serial, and parallel I/O control
		6831 dimensions (4 slot x 4 bay) - 7.6"W X 15.0"D X 15.0"H - 194mmW X 381mmD X 381mmH - 22.5 lb (maximum configuration)

Windows Millennium Preload⁵ Microsoft® Windows Millennium Edition <ul style="list-style-type: none"> Microsoft Office 2000 Small Business is preinstalled (Word, Excel, Outlook, Publisher, Small Business Tools) Lotus® SmartSuite® license⁶ Lotus Notes® Client 5.0 license⁶ Disk-to-Disk Recovery (in Service Partition) Software Selections CD-ROM
Windows 2000 Preload⁵ Microsoft® Windows® 2000 Professional <ul style="list-style-type: none"> Microsoft Office 2000 Small Business is preinstalled Lotus® SmartSuite® license⁶ Lotus Notes® Client 5.0 license⁶ Disk-to-Disk Recovery (Windows 2000; no option to convert to NT 4.0) Software Selections CD-ROM
Options 64MB SDRAM 133MHz NP DIMM 33L3071 128MB SDRAM 133MHz NP DIMM 33L3073 256MB SDRAM 133MHz NP DIMM 33L3075 Rapid Access™ Keyboard II (p wht) 33L3154 Rapid Access Keyboard II (black) 33L3174 10.1GB IDE Hard Drive (Value) 00N8202 15GB IDE Hard Drive (Value) 19K4463 15GB IDE Hard Drive (7200 rpm) 19K4460 20GB IDE Hard Drive (7200 rpm) 19K4461 30GB IDE Hard Drive (7200 rpm) 00N8203 Zip 250MB Internal Drive (white/blk) 00N8078 8X/4X/32X ⁴ CD-RW Internal (black) 33L5020 48X-20X ⁴ IDE CD-ROM (black) 10K3782 IBM EtherJet 10/100 PCI Adapter with Wake on LAN 34L1201 IBM EtherJet 10/100 PCI Adapter with Alert on LAN 2 34L1101 Intel PRO/100 VE Desktop Connection Ethernet Adapter 19K5710

Micro Tower

Slot 1: full-size, 32-bit AGP 4X (universal) - used in some
 Slot 2: three-quarter size, 32-bit PCI 2.2 (5v) with longer slot* - ethernet in some
 Slot 3: three-quarter size, 32-bit PCI 2.2 (5v)
 Slot 4: three-quarter size, 32-bit PCI 2.2 (5v) - modem in some

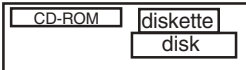
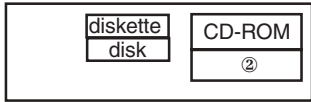
* Longer connector has LAN Connect Interface (LCI)
 • Swinging door on Bay 1 to 2 (does not cover Bay 1)
 • Handle on top

Bay ① 5.25", HH 1.6", access, CD-RW
 Bay ② 5.25", HH 1.6", access, open
 Bay ③ 3.5", SL 1", access, std diskette
 Bay ④ 3.5", SL 1", no access, std disk

LIMITED WARRANTY*⁹ ⇐ 3 year parts / 1 year labor warranty ⇐ International Warranty Service ⁹ ⇐ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ⇐ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ⇐ 3 year on site warranty service upgrade options: • Next day response, Mon-Fri 8-5 ⁷ • 4 hour response, 7 day x 24 hr ⁷ ⇐ Post warranty maintenance services available ⇐ 24 hour x 7 day telephone, electronic, and Internet support
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* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US models announced September 12, 2000 and June 5, 2001
 US models withdrawn from marketing effective May 2001 and November 2001
 No warranties are expressed or implied in this summary (6831) © IBM Corp. October 2001


Name	Type-model	Color	Slot/bay	Processor	Speed	Memory	Disk	CD-ROM	Graphics	Ethernet	Chip	Preload	Available
A40	6648-LAU	Black	2x3	Pentium® III	733/133	64MB	10GB ²	None	AGP 2X GMCH	10/100	815E	Windows 98 SE	Jul 2000
A40	6648-LBU	Black	2x3	Pentium III	733/133	64MB	10GB	None	AGP 2X GMCH	10/100	815E	Windows 2000	Jul 2000
A40	6648-TCU	Black	2x3	Pentium III	1GHz ¹ /133	256MB	20GB	40X-17X ⁴	AGP 2X GMCH	10/100	815E	Windows 2000	Jun 2001
A40	6578-LAU	White	4x4	Pentium III	733/133	128MB	20GB	40X-17X	AGP 2X GMCH	10/100	815E	Windows 98 SE	Jul 2000
A40	6578-LBU	White	4x4	Pentium III	733/133	128MB	20GB	40X-17X	AGP 2X GMCH	10/100	815E	Windows 2000	Jul 2000
A40	6578-LCU	White	4x4	Pentium III	733/133	64MB	10GB	None	AGP 2X GMCH	None	815E	Windows 98 SE	Jul 2000
A40	6578-LDU	White	4x4	Pentium III	733/133	64MB	10GB	None	AGP 2X GMCH	None	815E	Windows 2000	Jul 2000
A40	6578-NAU	White	4x4	Pentium III	800/133	64MB	20GB	None	AGP 2X GMCH	None	815E	Windows 98 SE	Jul 2000
A40	6578-NBU	White	4x4	Pentium III	800/133	64MB	20GB	None	AGP 2X GMCH	None	815E	Windows 2000	Jul 2000
A40	6578-NCU	White	4x4	Pentium III	800/133	128MB	20GB	40X-17X	AGP 2X GMCH	10/100	815E	Windows 98 SE	Jul 2000
A40	6578-NDU	White	4x4	Pentium III	800/133	128MB	20GB	40X-17X	AGP 2X GMCH	10/100	815E	Windows 2000	Jul 2000
A40	6578-PAU	White	4x4	Pentium III	866/133	128MB	20GB	40X-17X	AGP 2X GMCH	10/100	815E	Windows 98 SE	Jul 2000
A40	6578-PBU	White	4x4	Pentium III	866/133	128MB	20GB	40X-17X	AGP 2X GMCH	10/100	815E	Windows 2000	Jul 2000
A40	6578-RAU	White	4x4	Pentium III	933/133	128MB	20GB	40X-17X	AGP 2X GMCH	10/100	815E	Windows 98 SE	Aug 2000
A40	6578-RBU	White	4x4	Pentium III	933/133	128MB	20GB	40X-17X	AGP 2X GMCH	10/100	815E	Windows 2000	Aug 2000
A40	6578-L1U	White	4x4	Pentium III	733/133	0MB	None	None	AGP 2X GMCH	None	815E	None	Jul 2000
A40	6578-N1U	White	4x4	Pentium III	800/133	0MB	None	None	AGP 2X GMCH	None	815E	None	Jul 2000
A40	6578-P1U	White	4x4	Pentium III	866/133	0MB	None	None	AGP 2X GMCH	None	815E	None	Jul 2000

Processor	Intel® Pentium III 733, 800EB, 866, 933MHz ¹ or 1GHz ¹ with 133MHz Front Side Bus	Desktop 6648 Bay ① 5.25", 5/8", access, std or no CD-ROM Bay ② 3.5", SL 1" access, std diskette Bay ③ 3.5", SL 1", no access, std disk Slot 1: half size, 32-bit PCI 2.2 (5v) Slot 2: half size, 32-bit PCI 2.2 (5v) - Slots on Communications and Network Riser (CNR) inserted in LAN Connect Interface (LCI)																								
Implementation	Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA) in PGA370 socket																									
L2 cache	256KB std and max / ECC / full speed																									
Memory - std/max	64MB, 128MB or 256MB std / 512MB max	Desktop 6578 Slot 1: fullsize, 32-bit AGP 4X (universal) - used in some Slot 2: fullsize, 32-bit PCI 2.2 (5v) with longer slot* - e** Slot 3: fullsize, 32-bit PCI 2.2 (5v) Slot 4: fullsize, 32-bit PCI 2.2 (5v) * Longer connector has LAN Connect Interface (LCI) ** ethernet adapter in some models Bay ① 5.25", HH 1.6", access, CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk																								
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used																									
Memory - type	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM																									
Graphics controller	SVGA / Direct AGP / in 815E Graphics Memory Controller Hub (GMCH) / 0MB std and max / 15-pin analog D-sub connector / (DVMT) uses main memory with no display cache /	 <ul style="list-style-type: none"> • Stealth black color • Floor stand included • Drive cage flips up 																								
Disk	ATA-66 or ATA-100, Value, SMART ³ III, SMART Reaction II	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> • Universal Manageability Services (UM) Desktop Extensions enabled • SMART Reaction II • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0a • System Management BIOS • DMI 2.0-compliant • RPL and DHCP support • Wake on LAN 																								
Disk controller	Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2)																									
Diskette drive	3.5: 1.44MB diskette drive																									
CD-ROM	Some models: 40X-17X ⁴ CD-ROM / bootable	LIMITED WARRANTY*⁹ ⇨ 3 year parts and labor warranty ⇨ International Warranty Service ⁹ ⇨ On site, 8 am through 5 pm, Mon through Fri excluding holidays, next business day response time ⇨ 3 year on site warranty service upgrade options: • 4 hour response, 7 day x 24 hr ⁷ ⇨ Post warranty maintenance services available ⇨ 24 hour x 7 day telephone, electronic, and Internet support																								
Motherboard Architecture	MicroATX Accelerated Hub Architecture / 266MB/sec I/O channel																									
Chip set	Intel 815E / 82815 Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub																									
USB/serial/parallel Audio	Two USB ports (Version 1.1) on back / two serial / one parallel port Integrated digital audio / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1885 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)	 <ul style="list-style-type: none"> • Pearl white color • Bay 1 and 2 in cage flips up • Bay 3 and 4 in cage flips up 																								
Audio connectors	Line and headphone out / line in / microphone jack (all in back)																									
Speaker	One internal speaker / requires externally powered speakers																									
Ethernet controller	6648: 10/100 ethernet / controller in ICH2 and Communications and Network Riser (CNR) / Intel PRO/100 VE Desktop Connection riser / no Alert on LAN 6578 (Some models): 10/100 ethernet / controller ICH2 and adapter in PCI/CNR slot (Intel PRO/100 VE Desktop Connection adapter) / no Alert on LAN	SECURITY <ul style="list-style-type: none"> • U-Bolt anchoring feature • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Diskette write protect • Boot w/o keyboard or mouse • Diskette, hardfile, serial, and parallel I/O control 																								
Enhanced security	Does not have daughtercard that is standard in A40p																									
Keyboard / mouse	104-key keyboard / IBM 2-button mouse																									
Power supply	6648: 110 watts with variable speed fan / universal / manual switch 6578: 155 watts with variable speed fan / universal / manual switch	Options <table border="0"> <tr> <td>6648 dimensions (2 slot x 3 bay)</td> <td>• U-Bolt anchoring feature</td> <td>• Boot sequence control</td> </tr> <tr> <td>- 13.6"W X 14.9"D X 3.4"H</td> <td>• Power-on password</td> <td>• Diskette boot inhibit</td> </tr> <tr> <td>- 345mmW X 371mmD X 87mmH</td> <td>• Administrator password</td> <td>• Diskette write protect</td> </tr> <tr> <td>- 20 lb</td> <td></td> <td>• Boot w/o keyboard or mouse</td> </tr> <tr> <td>6578 dimensions (4 slot x 4 bay)</td> <td></td> <td>• Diskette, hardfile, serial, and parallel I/O control</td> </tr> <tr> <td>- 16.7"W X 16.7"D X 5.5"H</td> <td></td> <td></td> </tr> <tr> <td>- 425mmW X 425mmD X 140mmH</td> <td></td> <td></td> </tr> <tr> <td>- 23 lb</td> <td></td> <td></td> </tr> </table>	6648 dimensions (2 slot x 3 bay)	• U-Bolt anchoring feature	• Boot sequence control	- 13.6"W X 14.9"D X 3.4"H	• Power-on password	• Diskette boot inhibit	- 345mmW X 371mmD X 87mmH	• Administrator password	• Diskette write protect	- 20 lb		• Boot w/o keyboard or mouse	6578 dimensions (4 slot x 4 bay)		• Diskette, hardfile, serial, and parallel I/O control	- 16.7"W X 16.7"D X 5.5"H			- 425mmW X 425mmD X 140mmH			- 23 lb		
6648 dimensions (2 slot x 3 bay)	• U-Bolt anchoring feature		• Boot sequence control																							
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- 425mmW X 425mmD X 140mmH																										
- 23 lb																										
Preload with Windows 98 ⁵	Microsoft® Windows 98 Second Edition - Lotus SmartSuite license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (in Service Partition) ⇨ Software Selections CD-ROM	64MB SDRAM 133MHz NP DIMM 33L3071 128MB SDRAM 133MHz NP DIMM 33L3073 256MB SDRAM 133MHz NP DIMM 33L3075 10.1GB IDE Hard Drive (Value) 00N8202 15GB IDE Hard Drive (Value) 19K4463 20GB IDE Hard Drive (7200 rpm) 19K4461 30GB IDE Hard Drive (7200 rpm) 00N8203 Zip Drive 250MB 00N8078 8X/4X/24X Slimline CD-RW; black*** 10K3788 8X Max Slimline DVD-ROM; black*** 10K3798 24X-10X Slimline IDE CD-ROM; black*** 10K3780 8X/4X/32X CD-RW; pearl white**** 33L5019 48X-20X ⁴ IDE CD-ROM; pearl white**** 33L5001 *** for 6648 and 6649 only **** not supported on 6648 or 6649																								
Preload with Windows 2000 ⁵	Microsoft® Windows® 2000 Professional - Lotus® SmartSuite® license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (Windows NT 4.0 or Windows 2000) ⇨ Software Selections CD-ROM																									

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
US model announced June 5, 2001; others June 22, 2000
US models withdrawn effective March 2001 or May 2001 or March 2002

No warranties are expressed or implied in this summary
(6648) © IBM Corp. March 2002

Name	Type-model	Color	Slotxbay	Processor	MHz ¹	Memory	Disk	CD-ROM	Graphics	Ethernet	Chip	Preload	Available
A40	6648-NAU	Black	2x3	Pentium®III	800/133	64MB	10GB ²	24X-10X ⁴	AGP 2X GMCH	10/100	815E	Win Millennium	Sep 2000
A40	6648-NBU	Black	2x3	Pentium III	800/133	64MB	10GB	24X-10X	AGP 2X GMCH	10/100	815E	Windows 2000	Sep 2000
A40	6648-PAU	Black	2x3	Pentium III	866/133	128MB	20GB	None	AGP 2X GMCH	10/100	815E	Win Millennium	Sep 2000
A40	6648-PBU	Black	2x3	Pentium III	866/133	128MB	20GB	None	AGP 2X GMCH	10/100	815E	Windows 2000	Sep 2000
A40	6648-RAU	Black	2x3	Pentium III	933/133	128MB	20GB	24X-10X	AGP 2X GMCH	10/100	815E	Win Millennium	Sep 2000
A40	6648-RBU	Black	2x3	Pentium III	933/133	128MB	20GB	24X-10X	AGP 2X GMCH	10/100	815E	Windows 2000	Sep 2000
A40	6648-TAU	Black	2x3	Pentium III	1GHz ¹ /133	128MB	20GB	24X-10X	AGP 2X GMCH	10/100	815E	Windows 2000	Feb 2001
A40	6648-TBU	Black	2x3	Pentium III	1GHz/133	128MB	20GB	24X-10X	AGP 2X GMCH	10/100	815E	Win Millennium	Feb 2001
A40	6578-PCU	White	4x4	Pentium III	866/133	64MB	20GB	None	AGP 2X GMCH	None	815E	Win Millennium	Sep 2000
A40	6578-PDU	White	4x4	Pentium III	866/133	64MB	20GB	None	AGP 2X GMCH	None	815E	Windows 2000	Sep 2000
A40	6578-RCU	White	4x4	Pentium III	933/133	128MB	20GB	None	AGP 2X GMCH	None	815E	Win Millennium	Sep 2000
A40	6578-RDU	White	4x4	Pentium III	933/133	128MB	20GB	None	AGP 2X GMCH	None	815E	Windows 2000	Sep 2000
A40	6578-REU	White	4x4	Pentium III	933/133	128MB	20GB	48X-20X ⁴	4X nVidia 32MB	10/100	815E	Win Millennium	Sep 2000
A40	6578-RFU	White	4x4	Pentium III	933/133	128MB	20GB	48X-20X	4X nVidia 32MB	10/100	815E	Windows 2000	Sep 2000
A40	6578-R1U	White	4x4	Pentium III	933/133	0MB	None	None	AGP 2X GMCH	None	815E	None	Sep 2000
A40	6578-TAU	White	4x4	Pentium III	1GHz/133	128MB	20GB	48X-20X	AGP 2X GMCH	10/100	815E	Windows 2000	Jan 2001
A40	6578-TBU	White	4x4	Pentium III	1GHz/133	128MB	20GB	48X-20X	AGP 2X GMCH	10/100	815E	Win Millennium	Jan 2001
A40	6578-TCU	White	4x4	Pentium III	1GHz/133	128MB	20GB	48X-20X	4X nVidia 16MB	10/100	815E	Windows 2000	Jan 2001

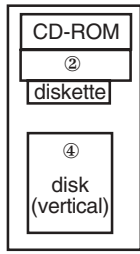
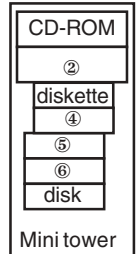
Processor	Intel® Pentium III 800EB, 866, 933MHz or 1GHz with 133MHz Front Side Bus	Desktop 6648
Implementation	Processor and L2 cache in FC-PGA in PGA370 socket	Bay ① 5.25", 5/8", access, std or no CD-ROM
L2 cache	256KB std and max / ECC / full speed	Bay ② 3.5", SL 1", access, std diskette
Memory - std/max	64MB or 128MB std / 512MB max	Bay ③ 3.5", SL 1", no access, std disk
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used	Slot 1: half size, 32-bit PCI 2.2 (5v)
Memory - type	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM	Slot 2: half size, 32-bit PCI 2.2 (5v)
Graphics - some models	SVGA / Direct AGP / in 815E Graphics Memory Controller Hub (GMCH) / 0MB std and max / 15-pin analog D-sub connector / (DVMT) uses main memory with no display cache	- Slots on Communications and Network Riser (CNR) inserted in LAN Connect Interface (LCI)
Graphics - some	nVidia™ TNT2 M64 16MB AGP 4X adapter / 15-pin analog D-sub	
Graphics - some	nVidia TNT2 M64 32MB AGP 4X adapter / 15-pin analog D-sub	• Stealth black color • Floor stand included • Drive cage flips up
Disk	ATA-66, SMART® III, SMART Reaction II	Desktop 6578
Disk controller	Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2)	Slot 1: fullsize, 32-bit AGP 4X (universal) - used in some
Diskette drive	3.5: 1.44MB diskette drive	Slot 2: fullsize, 32-bit PCI 2.2 (5v) with longer slot* - e**
CD-ROM	<i>Some models:</i> CD-ROM / bootable / different part for 6648 and 78	Slot 3: fullsize, 32-bit PCI 2.2 (5v)
Architecture	Accelerated Hub Architecture / 266MB/sec I/O channel	Slot 4: fullsize, 32-bit PCI 2.2 (5v)
Chip set	Intel 815E / 82815 Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub	* Longer connector has LAN Connect Interface (LCI)
USB/serial/parallel	Two USB ports (Version 1.1) on back / two serial / one parallel port	** ethernet adapter in some models
Audio	Integrated digital audio / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1885 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion) Line and headphone out / line in / microphone jack (all in back)	Bay ① 5.25", HH 1.6", access, CD-ROM
Audio connectors	Line and headphone out / line in / microphone jack (all in back)	Bay ② 5.25", HH 1.6" access, open
Speaker	One internal speaker / requires externally powered speakers	Bay ③ 3.5", SL 1", access, std diskette
Ethernet controller	<i>6648:</i> 10/100 ethernet / controller in ICH2 and Communications and Network Riser (CNR) / <i>Intel PRO/100 VE Desktop Connection riser / no Alert on LAN</i>	Bay ④ 3.5", SL 1", no access, std disk
Enhanced security	<i>6578 (Some models):</i> 10/100 ethernet / controller ICH2 and adapter in PCI/CNR slot (Intel PRO/100 VE Desktop Connection adapter) / no Alert on LAN	
Keyboard / mouse	104-key keyboard / IBM 2-button mouse	• Pearl white color • Bay 1 and 2 in cage flips up • Bay 3 and 4 in cage flips up
Power supply	<i>6648:</i> 110 watts with variable speed fan / universal / manual switch <i>6578:</i> 155 watts with variable speed fan / universal / manual switch	
6648 dimensions (2 slot x 3 bay)	- 13.6"W X 14.9"D X 3.4"H - 345mmW X 371mmD X 87mmH - 20 lb	
6578 dimensions (4 slot x 4 bay)	- 16.7"W X 16.7"D X 5.5"H - 425mmW X 425mmD X 140mmH - 23 lb	
Preload with Windows Millennium⁵	Microsoft® Windows® Millennium Edition - Lotus® SmartSuite® license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (in Service Partition) - Software Selections CD-ROM	
Preload with Windows 2000⁵	Microsoft® Windows 2000 Professional - Lotus SmartSuite license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (Windows NT 4.0 or Windows 2000) - Software Selections CD-ROM	
	SECURITY	
	• U-Bolt anchoring feature • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit	
	• Diskette write protect • Boot w/o keyboard or mouse • Diskette, hardfile, serial, and parallel I/O control	
	Options	
	64MB SDRAM 133MHz NP DIMM 33L3071	
	128MB SDRAM 133MHz NP DIMM 33L3073	
	256MB SDRAM 133MHz NP DIMM 33L3075	
	10.1GB IDE Hard Drive (Value) 00N8202	
	15GB IDE Hard Drive (Value) 19K4463	
	20GB IDE Hard Drive (7200 rpm) 19K4461	
	30GB IDE Hard Drive (7200 rpm) 00N8203	
	Zip Drive 250MB 00N8078	
	8X/4X/24X Slimline CD-RW; black*** 10K3788	
	8X Max Slimline DVD-ROM; black*** 10K3798	
	24X-10X Slimline IDE CD-ROM; black*** 10K3780	
	8X/4X/32X CD-RW; pearl white**** 33L5019	
	48X-20X ⁴ IDE CD-ROM; pearl white**** 33L5001	
	*** for 6648 and 6649 only	
	**** not supported on 6648 or 6649	
	SYSTEMS MANAGEMENT	
	• Universal Manageability Services (UM) Desktop Extensions enabled	
	• SMART Reaction II	
	• PC 99-compliant	
	• Advanced Power Management 1.2	
	• Advanced Configuration and Power Interface (ACPI) 1.0a	
	• System Management BIOS	
	• DMI 2.0-compliant	
	• RPL and DHCP support	
	• Wake on LAN	
	LIMITED WARRANTY*⁹	
	⇒ 3 year parts and labor warranty	
	⇒ International Warranty Service ⁹	
	⇒ On site, 8 am through 5 pm, Mon through Fri excluding holidays, next business day response time	
	⇒ 3 year on site warranty service upgrade options:	
	• 4 hour response, 7 day x 24 hr ⁷	
	⇒ Post warranty maintenance services available	
	⇒ 24 hour x 7 day telephone, electronic, and Internet support	

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
US models announced September 12, 2000 or December 12, 2000
US models withdrawn effective March 2001 or May 2001 or March 2002

No warranties are expressed or implied in this summary
(6648F) © IBM Corp. March 2002

Name	Type-model	Color	Slotbay	Processor	Speed	Memory	Disk	CD-ROM	Graphics	Ethernet	Chip	Preload	Available
A40	6830-CAU	Black	4x4	Pentium® III	800/133	64MB	10GB ²	None	AGP 2X GMCH	None	815E	Win Millennium	Sep 2000
A40	6830-CBU	Black	4x4	Pentium III	800/133	128MB	20GB	None	AGP 2X GMCH	None	815E	Windows 2000	Sep 2000
A40	6830-EAU	Black	4x4	Pentium III	866/133	128MB	20GB	None	AGP 2X GMCH	None	815E	Win Millennium	Sep 2000
A40	6830-EBU	Black	4x4	Pentium III	866/133	128MB	20GB	48X-20X ⁴	4X NVIDIA 16MB	None	815E	Windows 2000	Sep 2000
A40	6830-GBU	Black	4x4	Pentium III	933/133	128MB	20GB	48X-20X	4X NVIDIA 16MB	10/100	815E	Windows 2000	Sep 2000
A40	6830-TAU	Black	4x4	Pentium III	1GHz ¹ /133	128MB	20GB	48X-20X	4X NVIDIA 16MB	10/100	815E	Windows 2000	Jan 2001
A40	6830-TCU	Black	4x4	Pentium III	1GHz/133	128MB	20GB	None	AGP 2X GMCH	10/100	815E	Win Millennium	Jan 2001
A40	6830-VAU	Black	4x4	Pentium III	1GHz/133	128MB	20GB	48X-20X	AGP 2X GMCH	10/100	815E	Windows 2000	Jun 2001
A40	6840-CAU	White	6x7	Pentium III	800/133	128MB	20GB	48X-20X	AGP 2X GMCH	None	815E	Windows 2000	Sep 2000
A40	6840-EAU	White	6x7	Pentium III	866/133	128MB	20GB	48X-20X	4X NVIDIA 16MB	None	815E	Windows 2000	Sep 2000
A40	6840-GAU	White	6x7	Pentium III	933/133	128MB	30GB	48X-20X	4X NVIDIA 32MB	10/100	815E	Windows 2000	Sep 2000
A40	6840-C1U	White	6x7	Pentium III	800/133	0MB	None	None	AGP 2X GMCH	None	815E	None	Sep 2000
A40	6840-E1U	White	6x7	Pentium III	866/133	0MB	None	None	AGP 2X GMCH	None	815E	None	Sep 2000
A40	6840-G1U	White	6x7	Pentium III	933/133	0MB	None	None	AGP 2X GMCH	None	815E	None	Sep 2000
A40	6840-TAU	White	6x7	Pentium III	1GHz ¹ /133	128MB	30GB	48X-20X	4X NVIDIA 32MB	10/100	815E	Windows 2000	Jan 2001
A40	6840-VAU	White	6x7	Pentium III	1GHz/133	256MB	30GB	48X-20X	AGP 2X GMCH	10/100	815E	Windows 2000	Jun 2001
A40	6840-VBU	White	6x7	Pentium III	1GHz/133	128MB	30GB	48X-20X	AGP 2X GMCH	10/100	815E	Windows 2000	Jun 2001

Processor Implementation L2 cache	Intel® Pentium III 800EB, 866, 933MHz or 1GHz with 133MHz Front Side Bus Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA) in PGA370 socket 256KB std and max / ECC / full speed	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> SMART Reaction II PC 99-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0a System Management BIOS DMI 2.0-compliant RPL and DHCP support Wake on LAN
Memory - std/max Memory - sockets Memory - type	64MB, 128MB or 256MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM	
Graphics - some models	SVGA / Direct AGP / in 815E Graphics Memory Controller Hub (GMCH) / 0MB std and max / 15-pin analog D-sub connector / (DVMT) uses main memory with no display cache	
Graphics - some Graphics - some	NVIDIA™ TNT2 M64 16MB AGP 4X adapter / 15-pin analog D-sub connector NVIDIA TNT2 M64 32MB AGP 4X adapter / 15-pin analog D-sub connector	
Disk Disk controller Diskette drive	ATA-100, Value, (30GB is 7200rpm), SMART ³ III, SMART Reaction II Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2) 3.5" 1.44MB diskette drive	SECURITY <ul style="list-style-type: none"> U-Bolt anchoring feature Power-on password Administrator password Boot sequence control Diskette boot inhibit Diskette write protect Boot w/o keyboard or mouse Diskette, hardfile, serial, and parallel I/O control
Architecture Chip set	Accelerated Hub Architecture / 266MB/sec I/O channel Intel 815E / 82815 Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub	
USB/serial/parallel Audio	Four USB ports (Vers 1.1), two in back, two in front / two serial / one parallel Integrated digital audio / software-based audio (done by processor and ICH2) / AC '97 interface / AD1885 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion) Line and headphone out / line in / microphone jack (all in back) One internal speaker / requires externally powered speakers	
Audio connectors Speaker	Line and headphone out / line in / microphone jack (all in back) One internal speaker / requires externally powered speakers	
Ethernet controller	<i>Some models:</i> 10/100 ethernet / controller in ICH2 and adapter in PCI/CNR slot (Intel PRO/100 VE Desktop Connection adapter) / no Alert on LAN	6830 dimensions (4 slot x 4 bay) - 7.6"W X 15.0"D X 15.0"H - 194mmW X 381mmD X 381mmH - 22.5 lb (maximum configuration) 6840 dimensions (6 slot x 7 bay) - 6.5"W X 19.7"D X 16.7"H - 165mmW X 500mmD X 424mmH - 38.0 lb (maximum configuration)
Enhanced security	Does not have daughtercard that is standard in A40p	
Keyboard / mouse Power supply	104-key keyboard / IBM 2-button mouse 6830: 155 watts; 6840: 200 watts; All: variable speed fan / universal / manual switch	

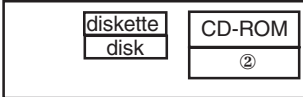
Micro Tower  <p>Slot 1: fullsize, 32-bit AGP 4X (universal) - used in some Slot 2: three-quarter size, 32-bit PCI 2.2 (5v) with longer slot* - ethernet in some Slot 3: three-quarter size, 32-bit PCI 2.2 (5v) Slot 4: three-quarter size, 32-bit PCI 2.2 (5v)</p> <p>* Longer connector has LAN Connect Interface (LCI) • Swinging door on Bay 1 to 2 (does not cover Bay 1) • Handle on top</p> <p>Bay ① 5.25", HH 1.6", access, CD-ROM Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk</p>	Mini Tower  <p>Slot 1: fullsize, 32-bit AGP 4X (universal) - used in some Slot 2: fullsize, 32-bit PCI 2.2 (5v) - ethernet in some* Slot 3: fullsize, 32-bit PCI 2.2 (5v) Slot 4: fullsize, 32-bit PCI 2.2 (5v) Slot 5: fullsize, 32-bit PCI 2.2 (5v) Slot 6: fullsize, 32-bit PCI 2.2 (5v)</p> <p>* Longer connector has LAN Connect Interface (LCI) • Swinging door on Bay 1 to 4 (does not cover Bay 1) • Handle on top</p> <p>Bay ① 5.25", HH 1.6", access, std CD-ROM Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, open (disk only) Bay ⑥ 3.5", SL 1", no access, open (disk only) Bay ⑦ 3.5", SL 1", no access, std disk (disk only)</p>
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Preload with Windows Millennium⁵ Microsoft® Windows Millennium - Lotus SmartSuite license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (in Service Partition) ♦ Software Selections CD-ROM	Options 64MB SDRAM 133MHz NP DIMM 33L3071 128MB SDRAM 133MHz NP DIMM 33L3073 256MB SDRAM 133MHz NP DIMM 33L3075 Rapid Access™ Keyboard II (p wht) 33L3154 Rapid Access Keyboard II (black) 33L3174 15GB IDE Hard Drive (Value) 19K4463 15GB IDE Hard Drive (7200 rpm) 19K4460 20GB IDE Hard Drive (7200 rpm) 19K4461 30GB IDE Hard Drive (7200 rpm) 00N8203 Zip 250MB Internal Drive 00N8078 8X/4X/32X CD-RW Internal (white) 33L5019 8X/4X/32X CD-RW Internal (black) 33L5020 48X-20X ⁴ IDE CD-ROM (white) 33L5001 48X-20X ⁴ IDE CD-ROM (black) 10K3782	LIMITED WARRANTY*⁹ ⇨ 3 year parts and labor warranty ⇨ International Warranty Service ⁹ ⇨ On site, 8 am through 5 pm, Mon through Fri excluding holidays, next business day response time ⇨ 3 year on site warranty service upgrade options: • 4 hour response, 7 day x 24 hr ⁷ ⇨ Post warranty maintenance services available ⇨ 24 hour x 7 day telephone, electronic, and Internet support
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* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US models announced June 5, 2001; others September 12, 2000 or December 12, 2000
 US models withdrawn effective March 2001 or May 2001 or March 2002

No warranties are expressed or implied in this summary
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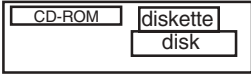
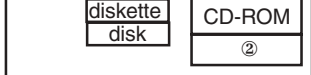
Name	Type-model	Color	Slot x bay	Processor	GHz	Memory	Disk	CD	Graphics	Ethernet	Chip	Preload	Available date
A40	6578-TFU	White	4x4	Pentium® III	1GHz/133	256MB	30GB ²	CD-RW	AGP 2X GMCH	10/100	815E	2000, SB	Mar 2001
A40	6578-TGU	White	4x4	Pentium III	1GHz/133	128MB	20GB	CD-ROM	AGP 2X GMCH	10/100	815E	Millennium, SB	Mar 2001
A40	6578-THU	White	4x4	Pentium III	1GHz/133	256MB	20GB	CD-ROM	AGP 2X GMCH	10/100	815E	2000	Mar 2001

Processor Implementation L2 cache	Intel® Pentium III 1GHz with 133MHz frontside bus Processor and L2 cache in FC-PGA in PGA370 socket 256KB std and max / ECC / full speed	Desktop 6578 Slot 1: fullsize, 32-bit AGP 4X (universal) - used in some Slot 2: fullsize, 32-bit PCI 2.2 (5v) with longer slot* - e** Slot 3: fullsize, 32-bit PCI 2.2 (5v) Slot 4: fullsize, 32-bit PCI 2.2 (5v) * Longer connector has LAN Connect Interface (LCI) ** ethernet adapter in slot Bay ① 5.25", HH 1.6", access, CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk  <ul style="list-style-type: none"> • Pearl white color • Bay 1 and 2 in cage flips up • Bay 3 and 4 in cage flips up
Memory - std/max Memory - sockets Memory - type	128MB or 256MB std / 512MB max Two 168-pin gold plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM	
Graphics - some models	SVGA / Direct AGP / in 815E Graphics Memory Controller Hub (GMCH) / 0MB std and max / 15-pin analog D-sub connector / (DVMT) uses main memory with no display cache	
Disk Disk controller Diskette drive CD-ROM CD-RW	ATA-100, SMART ³ III, SMART Reaction II Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2) 3.5: 1.44MB diskette drive <i>Some models: 48X-20X⁴ CD-ROM / bootable</i> <i>Some models: 8X/4X/32X Max⁴ CD-RW / bootable</i>	
Architecture	Accelerated Hub Architecture / 266MB/sec I/O channel	
Chip set	Intel 815E / 82815 Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub	
USB/serial/parallel Audio	Two USB ports (Version 1.1) on back / two serial / one parallel port Integrated digital audio / software-based audio (done by processor and ICH2) / AC '97 interface / AD1885 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)	
Audio connectors Speaker	Line and headphone out / line in / microphone jack (all in back) One internal speaker / requires externally powered speaker(s) (not included)	
Ethernet controller	10/100 ethernet / controller in ICH2 and PCI adapter (Intel PRO/100 VE Desktop Connection adapter) / no Alert on LAN	
Enhanced security	Does not have daughtercard that is standard in A40p	
Keyboard Mouse	104-key keyboard <i>TFU and TGU with Small Business: IBM ScrollPoint® II mouse</i> <i>THU: IBM 2-button mouse</i>	
Power supply	155 watts with variable speed fan / universal / manual switch	
6578 dimensions (4 slot x 4 bay) - 16.7"W X 16.7"D X 5.5"H - 425mmW X 425mmD X 140mmH - 23 lb (10.4 kg) maximum config	SECURITY <ul style="list-style-type: none"> • U-Bolt anchoring feature • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Diskette write protect • Boot w/o keyboard or mouse • Diskette, hardfile, serial, and parallel I/O control 	
Preload with Windows Millennium⁵ Microsoft® Windows® Millennium Edition • Model TGU: Microsoft Office 2000 Small Business is preinstalled (Word, Excel, Outlook, Publisher, Small Business Tools) - Lotus® SmartSuite® license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (in Service Partition) ♦ Software Selections CD-ROM ♦ Model TGU: Microsoft Office Small Business CD-ROM	Options 64MB SDRAM 133MHz NP DIMM 33L3071 128MB SDRAM 133MHz NP DIMM 33L3073 256MB SDRAM 133MHz NP DIMM 33L3075 10.1GB IDE Hard Drive (Value) 00N8202 15GB IDE Hard Drive (Value) 19K4463 20GB IDE Hard Drive (7200 rpm) 19K4461 30GB IDE Hard Drive (7200 rpm) 00N8203 Zip Drive 100MB (white) 20L0544 Zip Drive 250MB (white and black) 00N8078 8X/32X Max ⁴ DVD-ROM internal (white) 33L5015 8X/4X/32X Max ⁴ CD-RW (pearl white) 33L5019 48X-20X ⁴ IDE CD-ROM (pearl white) 33L5001 IBM TR5 10/20GB Internal EIDE Tape 20L0549	
Preload with Windows 2000⁵ Microsoft® Windows 2000 Professional • Model TFU: Microsoft Office 2000 Small Business is preinstalled (Word, Excel, Outlook, Publisher, Small Business Tools) - Lotus SmartSuite license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (Windows NT 4.0 or Windows 2000) ♦ Software Selections CD-ROM ♦ Model TFU: Microsoft Office Small Business CD-ROM	IBM E94 Monitor (pearl white) 633400N IBM E94 Monitor (stealth black) 633440N IBM G78 Monitor (pearl white) 66270AN IBM G78 Monitor (stealth black) 66274AN IBM T84H Monitor (pearl white) 6658HW2 IBM T84H Monitor (stealth black) 6658HG2 Other options at ibm.com/pc/us/accessories	
SYSTEMS MANAGEMENT <ul style="list-style-type: none"> • Universal Manageability Services (UM) Desktop Extensions enabled • SMART Reaction II • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0a • System Management BIOS • DMI 2.0-compliant • RPL and DHCP support • Wake on LAN 		
LIMITED WARRANTY¹ <ul style="list-style-type: none"> ↔ 3 year parts and labor warranty ↔ International Warranty Service⁹ ↔ On site, 8 am through 5 pm, Mon through Fri excluding holidays, next business day response time ↔ 3 year on site warranty service upgrade option: <ul style="list-style-type: none"> • 4 hour response, 7 day x 24 hr⁷ ↔ Post warranty maintenance services available ↔ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ 		

See footnotes for important warranty information
US models announced March 20, 2001
US models withdrawn effective March 2002 or August 2003

IBM® NetVista™ A40p (6649, 6579) - withdrawn

Name	Type-model	Color	Slot/bay	Processor	MHz ¹	Memory	Disk	CD-ROM	Graphics	Ethernet	Chip	Preload	Avail
A40p	6649-NAU	Black	2x3	Pentium® III	800/133	128MB	20GB ²	24X-10X ⁴	AGP 2X GMCH	10/100	815E	Windows 98 SE	July 00
A40p	6649-NBU	Black	2x3	Pentium III	800/133	128MB	20GB	24X-10X	AGP 2X GMCH	10/100	815E	Windows 2000	July 00
A40p	6579-LAU	White	4x4	Pentium III	733/133	64MB	10GB	None	AGP 2X GMCH	10/100	815E	Windows 98 SE	July 00
A40p	6579-LBU	White	4x4	Pentium III	733/133	64MB	10GB	None	AGP 2X GMCH	10/100	815E	Windows 2000	July 00
A40p	6579-NAU	White	4x4	Pentium III	800/133	128MB	30GB	48X-20X	AGP 4X Nvidia	10/100	815E	Windows 98 SE	July 00
A40p	6579-NBU	White	4x4	Pentium III	800/133	128MB	30GB	48X-20X	AGP 4X Nvidia	10/100	815E	Windows 2000	July 00
A40p	6579-NCU	White	4x4	Pentium III	800/133	64MB	20GB	None	AGP 2X GMCH	10/100	815E	Windows 98 SE	July 00
A40p	6579-NDU	White	4x4	Pentium III	800/133	64MB	20GB	None	AGP 2X GMCH	10/100	815E	Windows 2000	July 00
A40p	6579-PCU	White	4x4	Pentium III	866/133	128MB	30GB	48X-20X	AGP 4X Nvidia	10/100	815E	Windows 98 SE	July 00
A40p	6579-PDU	White	4x4	Pentium III	866/133	128MB	30GB	48X-20X	AGP 4X Nvidia	10/100	815E	Windows 2000	July 00
A40p	6579-L1U	White	4x4	Pentium III	733/133	0MB	None	None	AGP 2X GMCH	None	815E	None	July 00
A40p	6579-N1U	White	4x4	Pentium III	800/133	0MB	None	None	AGP 2X GMCH	None	815E	None	July 00
A40p	6579-P1U	White	4x4	Pentium III	866/133	0MB	None	None	AGP 2X GMCH	None	815E	None	July 00

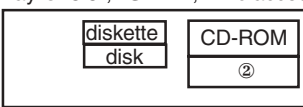
Processor	Intel® Pentium III 733, 800EB, or 866MHz¹ with 133MHz Front Side Bus			Desktop 6649	
Implementation	Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA) in PGA370 socket			Bay ① 5.25", 5/8" access, std CD-ROM	
L2 cache	256KB std and max / ECC / full speed			Bay ② 3.5", SL 1" access, std diskette	
Memory - std/max	64MB or 128MB std / 512MB max			Bay ③ 3.5", SL 1", no access, std disk	
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used			Slot 1: half size, 32-bit PCI 2.2 (5v)	
Memory - type	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM			Slot 2: half size, 32-bit PCI 2.2 (5v)	
Graphics - some models	SVGA / Direct AGP / in 815E Graphics Memory Controller Hub (GMCH) / 0MB std and max / (DVMT) uses main memory with no display cache / 15-pin analog D-sub connector			- Slots on Communications and Network Riser (CNR) inserted in LAN Connect Interface (LCI)	
Graphics - some models	Nvidia TNT2 M64 16MB AGP 4X adapter / 15-pin analog D-sub connector			 <ul style="list-style-type: none"> • Stealth black color • Floor stand included • Drive cage flips up 	
Disk	ATA-66, SMART ³ III, SMART Reaction II / 30GB is 7200rpm			Desktop 6579	
Disk controller	Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2)			Slot 1: fullsize, 32-bit AGP 4X (universal) - used in some	
Diskette drive	3.5: 1.44MB diskette drive			Slot 2: fullsize, 32-bit PCI 2.2 (5v) with longer slot* - e**	
CD-ROM	<i>Some models:</i> 24X-10X ⁴ (6649) or 48X-20X ⁴ CD-ROM / bootable			Slot 3: fullsize, 32-bit PCI 2.2 (5v)	
Motherboard Architecture	MicroATX Accelerated Hub Architecture / 266MB/sec I/O channel			Slot 4: fullsize, 32-bit PCI 2.2 (5v) - ethernet	
Chip set	Intel 815E⁵ / 82815 Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub			* Longer connector has LAN Connect Interface (LCI)	
USB/serial/parallel Audio	Two USB ports (Version 1.1) on back / two serial / one parallel port Integrated digital audio / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1885 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)			** ethernet adapter in some models	
Audio connectors	Line and headphone out / line in / microphone jack (all in back / 3.5mm)			Bay ① 5.25", HH 1.6" access, CD-ROM	
Speaker	One internal speaker / requires externally powered speakers			Bay ② 5.25", HH 1.6" access, open	
Ethernet controller	6649: 10/100 ethernet / controller in ICH2 and Communications and Network Riser (CNR) / Intel PRO/100 VE Desktop Connection riser / no Alert on LAN			Bay ③ 3.5", SL 1" access, std diskette	
Enhanced security	A40p has a security chip (256-bit encryption) daughtercard attached to motherboard which enables RFID antenna, C2 tamper switch, and Alert on LAN 2 support with compatible adapter			Bay ④ 3.5", SL 1", no access, std disk	
Keyboard / mouse	104-key keyboard / IBM ScrollPoint™ II mouse			 <ul style="list-style-type: none"> • Pearl white color • Bay 1 and 2 in cage flips up • Bay 3 and 4 in cage flips up 	
Power supply	6649: 110 watts with variable speed fan / universal / manual switch			SYSTEMS MANAGEMENT	
	6579: 155 watts with variable speed fan / universal / manual switch			<ul style="list-style-type: none"> • Universal Manageability Services (UM) Desktop Extensions enabled • SMART Reaction II • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0a • System Management BIOS • DMI 2.0-compliant • RPL and DHCP support • Wake on LAN • Alert on LAN™ 2 (with supported adapter) • Asset ID™ (RFID) • C2 tamper switch 	
6649 dimensions (2 slot x 3 bay)	SECURITY			LIMITED WARRANTY⁹	
- 13.6"W X 14.9"D X 3.4"H	<ul style="list-style-type: none"> • Keylockable cover • RFID antenna • C2 tamper switch • U-Bolt anchoring feature • Power-on password • Administrator password 			<ul style="list-style-type: none"> • 3 year parts and labor warranty • International Warranty Service⁹ • On site, 8 am through 5 pm, Mon through Fri excluding holidays, next business day response time • On site warranty upgrade option: <ul style="list-style-type: none"> • 4 hour response⁷, 7 day x 24 hr • Post warranty on site options: <ul style="list-style-type: none"> • Next day response⁷, Mon-Fri 8-5 • 4 hour response⁷, 7 day x 24 hr • IBM SystemXtra^{®16} • 24 hour x 7 day telephone, electronic, and Internet support 	
- 345mmW X 371mmD X 87mmH	<ul style="list-style-type: none"> • Boot sequence control • Diskette boot inhibit • Diskette write protect • Boot w/o keyboard or mouse • Diskette, hardfile, serial, and parallel I/O control 				
- 20 lb	<ul style="list-style-type: none"> • 64MB SDRAM 133MHz NP DIMM 33L3071 • 128MB SDRAM 133MHz NP DIMM 33L3073 • 256MB SDRAM 133MHz NP DIMM 33L3075 • 10.1GB IDE Hard Drive (Value) 00N8202 • 15GB IDE Hard Drive (Value) 19K4463 • 20GB IDE Hard Drive (7200 rpm) 19K4461 • 30GB IDE Hard Drive (7200 rpm) 00N8203 • Zip Drive 250MB 00N8078 • 8X/4X/24X Slimline CD-RW; black*** 10K3788 • 8X Max Slimline DVD-ROM; black*** 10K3798 • 24X-10X Slimline IDE CD-ROM; black*** 10K3780 • 8X/4X/32X CD-RW; pearl white**** 33L5019 • 48X-20X⁴ IDE CD-ROM; pearl white**** 33L5001 				
6579 dimensions (4 slot x 4 bay)	<ul style="list-style-type: none"> • *** for 6648 and 6649 only • **** not supported on 6648 or 6649 				
- 16.7"W X 16.7"D X 5.5"H					
- 425mmW X 425mmD X 140mmH					
- 23 lb					
Windows 98 Preload⁹	Options				
Microsoft® Windows 98 Second Edition					
- Lotus SmartSuite license ⁹					
- Lotus Notes® Client 5.0 license ⁶					
- Disk-to-Disk Recovery (in Service Partition)					
◇ Software Selections CD-ROM					
Windows 2000 Preload⁵					
Microsoft® Windows® 2000 Professional					
- Lotus® SmartSuite® license ⁶					
- Lotus Notes® Client 5.0 license ⁶					
- Disk-to-Disk Recovery (NT 4.0 or W2000)					
◇ Software Selections CD-ROM					

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Models announced June 22, 2000
Models withdrawn effective March 2001 or May 2001

No warranties are expressed or implied in this summary
(6649) © IBM Corp. May 2001

IBM® NetVista™ A40p (6579) - Fall 2000 - withdrawn

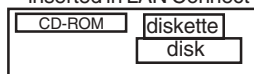
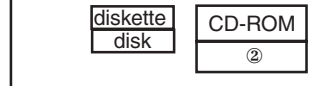
Name	Type-model	Color	Slot/bay	Processor	MHz ¹	Memory	Disk	CD-ROM	Graphics	Ethernet	Chip	Preload	Available
A40p	6579-RAU	White	4x4	Pentium® III	933/133	128MB	30GB	48X-20X ⁴	4X nVidia 32MB	10/100	815E	Win Millennium	Sep 2000
A40p	6579-RBU	White	4x4	Pentium III	933/133	128MB	30GB	48X-20X	4X nVidia 32MB	10/100	815E	Windows 2000	Sep 2000
A40p	6579-R1U	White	4x4	Pentium III	933/133	0MB	None	None	AGP 2X GMCH	None	815E	None	Sep 2000

Processor	Intel® Pentium III 933MHz¹ with 133MHz Front Side Bus		Desktop 6579 Slot 1: fullsize, 32-bit AGP 4X (universal) - used in some Slot 2: fullsize, 32-bit PCI 2.2 (5v) with longer slot* - e** Slot 3: fullsize, 32-bit PCI 2.2 (5v) Slot 4: fullsize, 32-bit PCI 2.2 (5v) - ethernet * Longer connector has LAN Connect Interface (LCI) ** ethernet adapter in some models Bay ① 5.25", HH 1.6", access, CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk  <ul style="list-style-type: none"> • Pearl white color • Bay 1 and 2 in cage flips up • Bay 3 and 4 in cage flips up
Implementation	Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA) in PGA370 socket		
L2 cache	256KB std and max / ECC / full speed		
Memory - std/max	128MB std / 512MB max		
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used		
Memory - type	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM		
Graphics - some models	SVGA / Direct AGP / in 815E Graphics Memory Controller Hub (GMCH) / 0MB std and max / (DVMT) uses main memory with no display cache / 15-pin analog D-sub connector		
Graphics - some models	nVidia™ TNT2 M64 32MB AGP 4X adapter / 15-pin analog D-sub connector		
Disk	ATA-66, SMART ³ III, SMART Reaction II / 30GB is 7200rpm		
Disk controller	Enhanced IDE/ ATA-100 / integrated into I/O Controller Hub (ICH2)		
Diskette drive	3.5: 1.44MB diskette drive		
CD-ROM	<i>Some models:</i> 48X-20X ⁴ CD-ROM / bootable		
Motherboard Architecture	MicroATX Accelerated Hub Architecture / 266MB/sec I/O channel		
Chip set	Intel 815E⁸ / 82815 Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub		
USB/serial/parallel Audio	Two USB ports (Version 1.1) on back / two serial / one parallel port Integrated digital audio / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1885 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)		
Audio connectors	Line and headphone out / line in / microphone jack (all in back / 3.5mm)		
Speaker	One internal speaker / requires externally powered speakers		
Ethernet controller	6579 (<i>Some models</i>): 10/100 ethernet / controller in ICH2 and adapter in PCI/CNR slot (Intel PRO/100 VE Desktop Connection adapter) / no Alert on LAN		
Enhanced security	A40p has a security chip (256-bit encryption) daughtercard attached to motherboard which enables RFID antenna, C2 tamper switch, and Alert on LAN 2 support with compatible adapter		
Keyboard / mouse	104-key keyboard / IBM ScrollPoint™ II mouse		
Power supply	6579: 155 watts with variable speed fan / universal / manual switch		
6579 dimensions (4 slot x 4 bay)	<ul style="list-style-type: none"> - 16.7"W X 16.7"D X 5.5"H - 425mmW X 425mmD X 140mmH - 23 lb 		
	SECURITY <ul style="list-style-type: none"> • Keylockable cover • RFID antenna • C2 tamper switch • U-Bolt anchoring feature • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Diskette write protect • Boot w/o keyboard or mouse • Diskette, hardfile, serial, and parallel I/O control 		
Windows Millennium Preload⁹	Options 64MB SDRAM 133MHz NP DIMM 33L3071 128MB SDRAM 133MHz NP DIMM 33L3073 256MB SDRAM 133MHz NP DIMM 33L3075 Rapid Access™ Keyboard II (p wht) 33L3154 Rapid Access™ Keyboard II (black) 33L3174 10.1GB IDE Hard Drive (Value) 00N8202 15GB IDE Hard Drive (Value) 19K4463 15GB IDE Hard Drive (7200 rpm) 19K4460 20GB IDE Hard Drive (7200 rpm) 19K4461 30GB IDE Hard Drive (7200 rpm) 00N8203 48X-20X ⁴ IDE CD-ROM 33L5001 Zip Drive 250MB 00N8078 8X/4X/32X CD-RW Internal Drive 33L5019 IBM Scrollpoint Pro Mouse (Sage) 33L3246 IBM Scrollpoint Pro Mouse (Blue) 33L3247		
Windows 2000 Preload⁵	Microsoft® Windows® 2000 Professional - Lotus SmartSuite® license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (in Service Partition) ♦ Software Selections CD-ROM		
Windows 2000 Preload⁵	Microsoft® Windows® 2000 Professional - Lotus SmartSuite® license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (NT 4.0 or W2000) ♦ Software Selections CD-ROM		
	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> • Universal Manageability Services (UM) Desktop Extensions enabled • SMART Reaction II • PC 99-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0a • System Management BIOS • DMI 2.0-compliant • RPL and DHCP support • Wake on LAN • Alert on LAN™ 2 (with supported adapter) • Asset ID™ (RFID) • C2 tamper switch 		
	LIMITED WARRANTY*⁹ ⇨ 3 year parts and labor warranty ⇨ International Warranty Service ⁹ ⇨ On site, 8 am through 5 pm, Mon through Fri excluding holidays, next business day response time ⇨ On site warranty upgrade option: • 4 hour response ⁷ , 7 day x 24 hr ⇨ Post warranty on site options: • Next day response ⁷ , Mon-Fri 8-5 • 4 hour response ⁷ , 7 day x 24 hr ⇨ IBM SystemXtra® ¹⁶ ⇨ 24 hour x 7 day telephone, electronic, and Internet support		

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US models announced September 12, 2000; withdrawn effective September 2001

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Name	Type-model	Color	Slotxbay	Processor	Speed	Memory	Disk	CD-ROM	Graphics	Ethernet	Chip	Preload	Available
A40p	6649-PAU	Black	2x3	Pentium® III	866/133	128MB	20GB ²	24X-10X ⁴	AGP 2X GMCH	10/100	815E	Millennium	Nov2000
A40p	6649-PBU	Black	2x3	Pentium III	866/133	128MB	20GB	24X-10X	AGP 2X GMCH	10/100	815E	Windows® 2000	Nov2000
A40p	6649-RAU	Black	2x3	Pentium III	933/133	128MB	20GB	24X-10X	AGP 2X GMCH	10/100	815E	Millennium	Nov2000
A40p	6649-RBU	Black	2x3	Pentium III	933/133	128MB	20GB	24X-10X	AGP 2X GMCH	10/100	815E	Windows 2000	Nov2000
A40p	6649-TAU	Black	2x3	Pentium III	1GHz ¹ /133	128MB	20GB	24X-10X	AGP 2X GMCH	10/100	815E	Windows 2000	Feb 2001
A40p	6649-TBU	Black	2x3	Pentium III	1GHz/133	128MB	20GB	24X-10X	AGP 2X GMCH	10/100	815E	Millennium	Feb 2001
A40p	6649-TCU	Black	2x3	Pentium III	1GHz/133	256MB	20GB	24X-10X	AGP 2X GMCH	10/100	815E	Windows 2000	Jun 2001
A40p	6579-RJU	White	4x4	Pentium III	933/133	128MB	20GB	48X-20X	AGP 2X GMCH	10/100	815E	Millennium	Nov2000
A40p	6579-RKU	White	4x4	Pentium III	933/133	128MB	20GB	48X-20X	AGP 2X GMCH	10/100	815E	Windows 2000	Nov2000
A40p	6579-TAU	White	4x4	Pentium III	1GHz/133	128MB	30GB	48X-20X	4X NVIDIA 16MB	10/100	815E	Windows 2000	Jan 2001
A40p	6579-TCU	White	4x4	Pentium III	1GHz/133	128MB	20GB	48X-20X	AGP 2X GMCH	10/100	815E	Windows 2000	Jan 2001
A40p	6579-TDU	White	4x4	Pentium III	1GHz/133	128MB	20GB	48X-20X	AGP 2X GMCH	10/100	815E	Millennium	Jan 2001
A40p	6579-TKU	White	4x4	Pentium III	1GHz/133	256MB	20GB	48X-20X	AGP 2X GMCH	10/100	815E	Windows 2000	Jun 2001
A40p	6579-VHU	White	4x4	Pentium III	1GHz/133	256MB	30GB	48X-20X	AGP 2X GMCH	10/100	815E	Windows 2000	Jun 2001

Processor	Intel® Pentium III 866, 933MHz ¹ or 1GHz ¹ with 133MHz Front Side Bus	Desktop 6649
Implementation	Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA) in PGA370 socket	Bay ① 5.25", 5/8", access, std CD-ROM Bay ② 3.5", SL 1" access, std diskette Bay ③ 3.5", SL 1", no access, std disk
L2 cache	256KB std and max / ECC / full speed	Slot 1: half size, 32-bit PCI 2.2 (5v) Slot 2: half size, 32-bit PCI 2.2 (5v) - Slots on Communications and Network Riser (CNR) inserted in LAN Connect Interface (LCI)
Memory - std/max	128MB or 256MB std / 512MB max	 <ul style="list-style-type: none"> Stealth black color Floor stand included Drive cage flips up
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used	
Memory - type	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM	Desktop 6579 Slot 1: fullsize, 32-bit AGP 4X (universal) - used in some Slot 2: fullsize, 32-bit PCI 2.2 (5v) with longer slot* - e** Slot 3: fullsize, 32-bit PCI 2.2 (5v) Slot 4: fullsize, 32-bit PCI 2.2 (5v) - ethernet * Longer connector has LAN Connect Interface (LCI) ** ethernet adapter in some models
Graphics - some models	SVGA / Direct AGP / in 815E Graphics Memory Controller Hub (GMCH) / 0MB std and max / (DVMT) uses main memory with no display cache / 15-pin analog D-sub connector	 <ul style="list-style-type: none"> Pearl white color Bay 1 and 2 in cage flips up Bay 3 and 4 in cage flips up
Graphics - some models	NVIDIA™ TNT2 M64 16MB AGP 4X adapter / 15-pin analog D-sub connector	
Disk	20GB: ATA-66 or ATA-100, Value, SMART ³ III, SMART Reaction II 30GB: ATA-100, 7200rpm, SMART ³ III, SMART Reaction II	
Disk controller	Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2)	
Diskette drive	3.5: 1.44MB diskette drive	
CD-ROM	Some models: 24X-10X ⁴ (6649) or 48X-20X ⁴ CD-ROM / bootable	
Architecture	Accelerated Hub Architecture / 266MB/sec I/O channel	
Chip set	Intel 815E ³ / 82815 Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub	
USB/serial/parallel	Two USB ports (Version 1.1) on back / two serial / one parallel port	
Audio	Integrated digital audio / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1885 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)	
Audio connectors	Line and headphone out / line in / microphone jack (all in back / 3.5mm)	
Speaker	One internal speaker / requires externally powered speakers	
Ethernet controller	6649: 10/100 ethernet / controller in ICH2 and Communications and Network Riser (CNR) / Intel PRO/100 VE Desktop Connection riser / no Alert on LAN 6579: 10/100 ethernet / controller in ICH2 and adapter in PCI/CNR slot (Intel PRO/100 VE Desktop Connection adapter) / no Alert on LAN	
Enhanced security	A40p has a security chip (256-bit encryption) daughtercard attached to motherboard which enables RFID antenna, C2 tamper switch, and Alert on LAN 2 support with compatible adapter	
Keyboard / mouse	104-key kboard / IBM ScrollPoint® II mouse; 1GHz models: IBM 2-button mouse	
Power supply	6649: 110 watts with variable speed fan / universal / manual switch 6579: 155 watts with variable speed fan / universal / manual switch	

6649 dimensions (2 slot x 3 bay) - 13.6"W X 14.9"D X 3.4"H - 345mmW X 371mmD X 87mmH - 20 lb 6579 dimensions (4 slot x 4 bay) - 16.7"W X 16.7"D X 5.5"H - 425mmW X 425mmD X 140mmH - 23 lb	SECURITY <ul style="list-style-type: none"> Keylockable cover RFID antenna C2 tamper switch U-Bolt anchoring feature Power-on password Administrator password Boot sequence control Diskette boot inhibit Diskette write protect Boot w/o keyboard or mouse Diskette, hardfile, serial, and parallel I/O control
Preload with Windows Millennium⁵ Microsoft® Windows® Millennium Edition - Lotus® SmartSuite® license ⁶ - Lotus Notes® Client 5.0 license ⁶ - Disk-to-Disk Recovery (in Service Partition) ♦ Software Selections CD-ROM Preload with Windows 2000⁵ Microsoft Windows 2000 Professional - Lotus SmartSuite license ⁶ - Lotus Notes Client 5.0 license ⁶ - Disk-to-Disk Recovery (NT 4.0 or W2000) ♦ Software Selections CD-ROM	Options 64MB SDRAM 133MHz NP DIMM 33L3071 128MB SDRAM 133MHz NP DIMM 33L3073 256MB SDRAM 133MHz NP DIMM 33L3075 10.1GB IDE Hard Drive (Value) 00N8202 15GB IDE Hard Drive (Value) 19K4463 20GB IDE Hard Drive (7200 rpm) 19K4461 30GB IDE Hard Drive (7200 rpm) 00N8203 Zip Drive 250MB 00N8078 8X/4X/24X Slimline CD-RW; black*** 10K3788 8X Max Slimline DVD-ROM; black*** 10K3798 24X-10X Slimline IDE CD-ROM; black*** 10K3780 8X/4X/32X CD-RW; pearl white**** 33L5019 48X-20X ⁴ IDE CD-ROM; pearl white**** 33L5001 *** for 6648 and 6649 only **** not supported on 6648 or 6649

SYSTEMS MANAGEMENT

- SMART Reaction™ II
- PC 99-compliant
- Advanced Power Management 1.2
- Advanced Configuration and Power Interface (ACPI) 1.0a
- System Management BIOS
- DMI 2.0-compliant
- RPL and DHCP support
- Wake on LAN
- Alert on LAN™ 2 (with supported adapter)
- Asset ID™ (RFID)
- C2 tamper switch

LIMITED WARRANTY*⁹

- ↪ 3 year parts and labor warranty
- ↪ International Warranty Service⁹
- ↪ On site, 8 am through 5 pm, Mon through Fri excluding holidays, next business day response time
- ↪ 3 year on site warranty service upgrade options:
 - 4 hour response, 7 day x 24 hr⁷
- ↪ Post warranty maintenance services available
- ↪ 24 hour x 7 day telephone, electronic, and Internet support

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
US models announced June 5, 2001; others November 21, 2000 or December 12, 2000
US models withdrawn from marketing effective May 2001 or March 2002

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Name	Type-model	Color	Slot/bay	Processor	Speed	Memory	Disk	CD-ROM	Graphics	Ethernet	Chip	Preload	Available
A40p	6841-EAU	White	6x7	Pentium® III	866/133	128MB	20GB ²	48X-20X	4X NVIDIA 16MB	10/100	815E	Windows 2000	Sep 2000
A40p	6841-GAU	White	6x7	Pentium III	933/133	128MB	30GB	48X-20X	4X NVIDIA 32MB	10/100	815E	Windows 2000	Sep 2000
A40p	6841-E1U	White	6x7	Pentium III	866/133	0MB	None	None	AGP 2X GMCH	None	815E	None	Sep 2000
A40p	6841-G1U	White	6x7	Pentium III	933/133	0MB	None	None	AGP 2X GMCH	None	815E	None	Sep 2000
A40p	6841-TAU	White	6x7	Pentium III	1GHz ¹ /133	128MB	30GB	48X-20X	4X NVIDIA 32MB	10/100	815E	Windows 2000	Jan 2001
A40p	6841-VAU	White	6x7	Pentium III	1GHz ¹ /133	256MB	30GB	48X-20X	AGP 2X GMCH	10/100	815E	Windows 2000	Jun 2001

Processor Implementation	Intel® Pentium III 866, 933MHz ¹ or 1GHz ¹ with 133MHz Front Side Bus Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA) in PGA370 socket	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> Universal Manageability Services (UM) Desktop Extensions enabled SMART Reaction II PC 99-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0a System Management BIOS DMI 2.0-compliant RPL and DHCP support Wake on LAN
L2 cache	256KB std and max / ECC / full speed	
Memory - std/max	128MB std / 512MB max	
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used	
Memory - type	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM	
Graphics - some models	SVGA / Direct AGP / in 815E Graphics Memory Controller Hub (GMCH) / 0MB std and max / 15-pin analog D-sub connector / (DVMT) uses main memory with no display cache	
Graphics - some	NVIDIA™ TNT2 M64 16MB AGP 4X adapter / 15-pin analog D-sub connector	
Graphics - some	NVIDIA TNT2 M64 32MB AGP 4X adapter / 15-pin analog D-sub connector	
Disk	ATA-100, Value (30GB is 7200rpm), SMART ³ III, SMART Reaction II	
Disk controller	Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2)	
Diskette drive	3.5: 1.44MB diskette drive	SECURITY <ul style="list-style-type: none"> U-Bolt anchoring feature Power-on password Administrator password Boot sequence control Diskette boot inhibit Diskette write protect Boot w/o keyboard or mouse Diskette, hardfile, serial, and parallel I/O control Cover key lock Alert on LAN™ 2 (with supported adapter) Asset ID™ (RFID) C2 tamper switch
Architecture	Accelerated Hub Architecture / 266MB/sec I/O channel	
Chip set	Intel 815E / 82815 Graphics Memory Controller Hub (GMCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub	
USB/serial/parallel	Four USB ports (Vers 1.1), two in back, two in front / two serial / one parallel	
Audio	Integrated digital audio / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1885 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)	
Audio connectors	Line and headphone out / line in / microphone jack (all in back)	
Speaker	One internal speaker / requires externally powered speakers	
Ethernet controller	Some models: 10/100 ethernet / controller in ICH2 and adapter in PCI/CNR slot (Intel PRO/100 VE Desktop Connection adapter) / no Alert on LAN	
Enhanced security	A40p has a security chip (256-bit encryption) daughtercard attached to motherboard which enables RFID antenna, C2 tamper switch, and Alert on LAN 2 support with compatible adapter	
Keyboard / mouse	104-key keyboard / IBM ScrollPoint® II mouse	
Power supply	200 watts with variable speed fan / universal / manual switch	
		6841 dimensions (6 slot x 7 bay) - 6.5"W X 19.7"D X 16.7"H - 165mmW X 500mmD X 424mmH - 38.0 lb (maximum configuration)

Preload with Windows 2000⁵

- Microsoft® Windows® 2000 Professional
- Lotus® SmartSuite® license⁶
- Lotus Notes® Client 5.0 license⁶
- Disk-to-Disk Recovery (Windows NT® 4.0 or Windows 2000)
- ◆ Software Selections CD-ROM

Options

64MB SDRAM 133MHz NP DIMM	33L3071
128MB SDRAM 133MHz NP DIMM	33L3073
256MB SDRAM 133MHz NP DIMM	33L3075
Rapid Access™ Keyboard II (p wht)	33L3154
Rapid Access Keyboard II (black)	33L3174
10.1GB IDE Hard Drive (Value)	00N8202
15GB IDE Hard Drive (Value)	19K4463
15GB IDE Hard Drive (7200 rpm)	19K4460
20GB IDE Hard Drive (7200 rpm)	19K4461
30GB IDE Hard Drive (7200 rpm)	00N8203
Zip 100MB Internal Drive (white)	20L0544
Zip 250MB Internal Drive	00N8078
8/32X max DVD-ROM Internal (wht)	33L5015
8X/4X/32X CD-RW Internal (white)	33L5019
8X/4X/32X CD-RW Internal (black)	33L5020
48X-20X ⁴ IDE CD-ROM	33L5001
IBM EtherJet 10/100 PCI Adapter with Wake on LAN	34L1201
IBM EtherJet 10/100 PCI Adapter with Alert on LAN 2	34L1101
Intel PRO V 100/E Ethernet Adapter	19K5710

Mini Tower

Slot 1: fullsize, 32-bit AGP 4X (universal) - used in some
 Slot 2: fullsize, 32-bit PCI 2.2 (5v) - ethernet in some*
 Slot 3: fullsize, 32-bit PCI 2.2 (5v)
 Slot 4: fullsize, 32-bit PCI 2.2 (5v)
 Slot 5: fullsize, 32-bit PCI 2.2 (5v)
 Slot 6: fullsize, 32-bit PCI 2.2 (5v)

* Longer connector has LAN Connect Interface (LCI)

- Swinging door on Bay 1 to 4 (does not cover Bay 1)
- Handle on top

Bay ①	5.25", HH 1.6", access, std CD-ROM
Bay ②	5.25", HH 1.6", access, open
Bay ③	3.5", SL 1", access, open
Bay ④	3.5", SL 1", access, std diskette
Bay ⑤	3.5", SL 1", no access, open (disk only)
Bay ⑥	3.5", SL 1", no access, open (disk only)
Bay ⑦	3.5", SL 1", no access, std disk (disk only)

LIMITED WARRANTY*⁹

- ⇒ 3 year parts and labor warranty
- ⇒ International Warranty Service⁹
- ⇒ On site, 8 am through 5 pm, Mon through Fri excluding holidays, next business day response time
- ⇒ 3 year on site warranty service upgrade options:
 - 4 hour response, 7 day x 24 hr⁷
- ⇒ Post warranty maintenance services available
- ⇒ 24 hour x 7 day telephone, electronic, and Internet support

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US models announced June 5, 2001; others September 12, 2000 or December 12, 2000
 US models withdrawn from marketing effective May 2001 or March 2002

No warranties are expressed or implied in this summary
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IBM® NetVista™ A60i (6848) - withdrawn

IBM® Type-model Processor	GHz¹ Memory	Disk and rpm	CD-RW and DVD	Graphics adapter	Sound Card	Slots x bays ethernet	Preload⁵	Available date
6848-30U Pentium® 4	1.4 128MB	45GB² EIDE 7.2K	CD-RW	NVIDIA™ GeForce2 MX	Sound	6 x 7 10/100	Windows® Me	Dec 00
6848-40U Pentium 4	1.5 128MB	75GB EIDE 7.2K	CD-RW, DVD-ROM	ATI® RADEON™	Sound	6 x 7 10/100	Windows Me	Dec 00

Intel® processor L2 cache Implementation SMP support	Pentium® 4 at 1.4 or 1.5GHz¹ with 400MHz Front Side Bus 256KB std and max / at processor speed Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA2) / motherboard contains one Intel PGA423 socket (with Pentium 4 and heat sink), four RIMM sockets, five PCI slots, one AGP slot, integrated ethernet, and 850 chip w/ heat sink No SMP support
Memory - std / max Memory - features	128MB std / 2GB max / dual RDRAM (Rambus) channels / 32 devices max each channel / Two 4D 64MB PC600 RIMMs / non-parity / four 184-pin gold-plated RIMM sockets (two per channel) / two RIMMs installed (one per channel) / CRIMMs in two sockets / supports PC600 or PC800 RIMMs (not PC700) / mixing PC600 and PC800 RIMMs results in PC600 performance / all installed RIMMs must be installed in pairs across both channels / supports optional ECC RIMMs (mixing non-parity and ECC RIMMs results in non-parity)
Graphics controller (one of following)	<ul style="list-style-type: none"> • NVIDIA GeForce2 MX (advanced 3D) / AGP 4X adapter / GeForce2 GPU / 32MB std and max 166MHz SDRAM / one analog DB-15 connector and one DVI-D connector (single head; only one connector used at once) / S-Video out • ATI ALL-IN-WONDER® RADEON (advanced 3D and multimedia) / AGP 4X adapter / 32MB std and max 166MHz DDR-SGRAM / four connectors on rear of card: one DVI-I connector, one audio/video-out (S-Video or composite), one CATV in, one audio/video-in (S-Video or composite)

IDE disk controller Cables Disk - features	Enhanced IDE busmaster / ATA-100 / two connectors on planar Two 2-drop EIDE cables 45 or 75GB EIDE / ATA-100 / 7200 rpm / S.M.A.R.T.³	SECURITY <ul style="list-style-type: none"> • Cover key lock • Cover tamper detect switch • Secure fixed DASD • Power-on password • Administrator password • Keyboard/mouse password • Boot sequence control • Boot without keyboard or mouse • Diskette boot inhibit and write-protect • Disable mouse • Diskette, disk, serial port, parallel port I/O control • Secure access openings • VPD stored in EEPROM • Write protection control for EEPROM • Barcode labels on most components • IBM Security Solutions
Rack support Architecture / chipsets	4U¹⁷ rack mount support via tower-to-rack kit option Intel 850 chip set / MCH (Memory Controller Hub) / I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / SMC LPC47M102 Super I/O off LPC interface	
100/10Mbps ethernet	Intel 82562EM / on planar / 10BaseT, 100BaseTX / full duplex / RJ-45 port / LAN Connect Interface / controller in ICH2 and 82562EM / support for Wake on LAN®, Alert on LAN™, Preboot eXecution Envir (PXE)	
CD-RW DVD-ROM Diskette drive Audio Speakers Data/fax modem External ports	8X-4X-32X⁴ CD-ReWritable / bootable <i>Some models:</i> 40X-18X⁴ DVD-ROM 3.5" 1.44MB diskette drive Creative Labs® SoundBlaster Live! / PCI adapter Altec Lansing® IBM345 3-piece Speaker System / 30 watts / 30Hz-18kHz Conexant® HFC 56K¹⁰ Data/Fax modem / PCI adapter <i>Serial:</i> Two 9 pin; <i>Parallel:</i> One (EPP, ECP) / IEEE 1284; <i>USB:</i> Four (Ver 1.1); keyboard, mouse, audio line in, audio line out, microphone in	
Systems mgmt	Monitoring and alerting of thermal, fans, and voltage faults	

Keyboard Mouse Cooling fans Power supply	IBM Rapid Access™ Keyboard III (USB) IBM ScrollPoint™ II mouse (3 button and scrolling button) Three variable speed fans (power supply, rear, processor) / not redundant or hot-swap 340 watts / universal / auto sensing	Bay ① 5.25", HH 1.6", access, CD-ROM Bay ② 5.25", HH 1.6", access, open or DVD Bay ③ 3.5", SL 1", access, diskette Bay ④ 3.5", SL 1", access, open Bay ⑤ 3.5", SL 1", access, open Bay ⑥ 3.5", SL 1", access, open Bay ⑦ 3.5", SL 1", access, disk	
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Preload with Windows Millennium Edition⁵ Microsoft® Windows® Millennium Edition - License for Lotus® SmartSuite® Millennium - License for Lotus Notes® Client ◇ Device Drivers and Diagnostics CD-ROM ◇ Software Selections CD-ROM ◇ Windows Millennium Ed Product Recovery CD ◇ Disk-to-Disk Recovery (Millennium Edition in hidden service partition)	Slot 1: fullsize, AGP 4X Pro50 (1.5v) - used by std AGP graphics adapter Slot 2: fullsize, 32-bit 33MHz, PCI 2.2 (5v) - used by modem Slot 3: fullsize, 32-bit 33MHz, PCI 2.2 (5v) - used by sound card Slot 4: fullsize, 32-bit 33MHz, PCI 2.2 (5v) Slot 5: fullsize, 32-bit 33MHz, PCI 2.2 (5v) Slot 6: fullsize, 32-bit 33MHz, PCI 2.2 (5v)	◇ Metal cage for disk bays 5,6,7 rotates out of chassis ◇ Two front stabilizing feet ◇ Handle grip on top ◇ H 18.5" x W 6.5" x D 20.0" ◇ H 470mm x W 165mm x D 508mm ◇ 36 to 42 pounds (16.4 to 19.1kg)	Mini-tower Stealth black
Options 64MB PC800 NP RDRAM RIMM (4 Dev) 20L0270 128MB PC800 NP RDRAM RIMM (8 Dev) 20L0271 256MB PC800 NP RDRAM RIMM (16 Dev) 20L0273 IBM 4Ux20D Tower-to-Rack Kit 09N4300 IBM 15GB ATA-66 EIDE HDD 19K4460 IBM 40GB ATA-100 EIDE HDD 09N0964 IBM 9.4GB DVD-RAM (black) 10K3561 IBM IDE 16X Max⁴ DVD-ROM (black) 10K3576 IBM IDE 8X/4X/32X⁴ CD-Rewritable (black) 33L5020 IBM 250MB Zip Drive (black) 00N8078 IBM NetVista USB-Parallel Printer Cable 19K4164 IBM P76 Color Monitor (black) 655063N IBM P96 Color Monitor (black) 655163N	◇ Removable left side panel ◇ BIOS Setup Utility via F2 at startup ◇ Product Recovery Pgm via F11 at startup ◇ Adv Config Power Interface (ACPI) 1.0 ◇ LANClient Control Manager™ enabled ◇ DMI 2.0-compliant	LIMITED WARRANTY⁹ ⇐ 3 year parts and labor limited warranty ⇐ On site, 8 am through 5 pm, Mon through Fri excluding holidays, second business day response time ⇐ 24 hour x 7 day telephone, electronic, and Internet support	

All trademarks are the property of their respective owners
 US models announced November 21, 2000
 US models withdrawn from marketing effective May 2001

No warranties are expressed or implied in this summary
 (6848) © IBM Corp. April 2001

IBM® NetVista™ A60i (6832) - withdrawn

IBM® Type-model	Processor	GHz ¹	Memory	Disk / RPM	Optical	Graphics adapter	Slots x bays	Modem, sound card, speakers	Ethernet or FireWire	Preload	Available date
6832-20U	Pentium® 4	1.3	128MB	40GB ² 7.2K	CD-ROM	NVIDIA™ TNT2 32MB	4x4	mod, snd, Zylux®		Windows® Me	Wrks Apr 2001
6832-22U	Pentium 4	1.3	128MB	40GB 7.2K	DVD / CD-RW	ATI® Radeon 32MB	4x4	mod, snd, Altec	1394	Windows Me	Wrks Apr 2001
6832-61U	Pentium 4	1.5	128MB	60GB 7.2K	DVD / CD-RW	NVIDIA GTS Pro 64M	4x4	mod, snd, Altec	1394	Windows Me	Wrks Apr 2001
6832-25U	Pentium 4	1.3	128MB	20GB value	CD-ROM	NVIDIA TNT2 16MB	4x4	mod, snd, Zylux	10/100	Windows Me	Apr 2001
6832-40U	Pentium 4	1.4	128MB	40GB 7.2K	CD-RW	NVIDIA TNT2 32MB	4x4	mod, snd, Zylux		Windows Me	Wrks Apr 2001
6832-44U	Pentium 4	1.4	128MB	20GB 7.2K	CD-ROM	NVIDIA TNT2 16MB	4x4	mod, snd, Zylux	10/100	Windows Me	Wrks Apr 2001
6832-45U	Pentium 4	1.4	128MB	60GB 7.2K	DVD / CD-RW	NVIDIA TNT2 32MB	4x4	mod, snd, Zylux	1394	Windows Me	Wrks Apr 2001
6832-71U	Pentium 4	1.7	128MB	80GB value	DVD / CD-RW	NVIDIA GTS Pro 64M	4x4	mod, snd, Altec	1394	Windows Me	Wrks Apr 2001

Intel® processor
L2 cache
Implementation
SMP support

Pentium® 4 at 1.3, 1.4, 1.5, or 1.7GHz¹ with 400MHz¹ Front Side Bus
256KB std and max / at processor speed
 Processor and L2 cache in Pin Grid Array (PGA) / motherboard contains one Intel PGA423 socket (with Pentium 4 and heat sink), four RIMM sockets, three PCI slots, one AGP slot, and 850 chipset with heat sink
 No SMP support

Memory - std / max
Memory - features

128MB std / 1.5GB max / dual RDRAM (Rambus) channels / 32 devices max each channel
 Two 4D 64MB PC800 RIMMs, non-parity/ Four 184-pin gold-plated RIMM sockets (two per channel) / two RIMMs installed (one per channel) / CRIMMs in two sockets / supports PC600 or PC800 RIMMs (not PC700) / mixing PC600 and PC800 RIMMs results in PC600 performance / all installed RIMMs must be installed in pairs across both channels / no support for ECC function (but ECC RIMMs will operate in non-parity mode)

Graphics controller (one of the following)

- **NVIDIA TNT2 M64** (2D and 3D) / AGP 4X adapter / TNT2 GPU / **16MB** std and max 125MHz SDRAM / max resolution of 1600x1200 with 16.7 million colors at 85Hz / one analog DB-15 connector
- **NVIDIA TNT2 M64** (2D and 3D) / AGP 4X adapter / TNT2 GPU / **32MB** std and max 125MHz SDRAM / max resolution of 1600x1200 with 16.7 million colors at 85Hz / one analog DB-15 connector
- **ATI ALL-IN-WONDER® RADEON** (advanced 3D and multimedia) / AGP 4X adapter / **32MB** std and max 166MHz DDR-SGRAM / four connectors on rear of card: one DVI-I connector, one audio/video-out (S-Video or composite), one CATV in (advanced TV tuner), one audio/video-in (S-Video or composite) / Dolby® Digital audio output / MPEG-2 decoder
- **NVIDIA GeForce2 GTS Pro** (advanced 3D) / AGP 4X adapter / NV15 GPU / **64MB** std and max 200MHz DDR SDRAM / max resolution of 2048x1536 with 16.7 million colors at 60Hz / S-Video out connector / one analog DB-15 connector

IDE disk controller
Cables
Disk - features

Enhanced IDE busmaster / ATA-100 / two connectors on planar
 Two EIDE cables (one 2-drop cable to CD, one 1-drop cable to EIDE disk)
 Enhanced IDE (EIDE) / ATA-100 / S.M.A.R.T.³

Architecture / chipsets

Intel 850 chip set / MCH (Memory Controller Hub) / I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, USB, Low Pin Count Interface / Firmware Hub / Winbond® W83627F Super I/O off Low Pin Count Interface

Diskette
CD-ROM
CD-RW¹¹
DVD
Modem
10/100 Mbps ethernet
1394 FireWire
Audio
Speakers
External ports
Systems mgmt

3.5" 1.44MB diskette drive
Some models: 48X-20X⁴ CD-ROM (ATAPI), bootable
Some models: 12X-8X-32X⁴ CD-RW(ATAPI), bootable
Some models: 16X-40X⁴ DVD-ROM (ATAPI), bootable
56K¹⁰ data/fax modem / Conexant® R6795-12 chipset / controllerless HCF modem / PCI adapter
Some models: 10/100 ethernet / Accton® PCI adapter / part number 19K4310
Some models: FireWire PCI adapter / 1394A / 400Mbps / dual 6-pin ports on rear / no cables included
Creative Labs® SoundBlaster Live! / PCI adapter / line in, mic in, line out, rear out for surround sound, MIDI/Joystick
Some models: Altec Lansing® IBM345 3-piece Speaker System / 30 watts total / 30Hz-18kHz / part number 19K3559
Some models: Zylux 2-piece MS-231002 / 3 watts / 200Hz-20kHz frequency response / part number 10K2602
 Four USB (two in front, two in back) [Ver 1.1] / one serial 9-pin / parallel (EPP, ECP), IEEE 1284 / keyboard / mouse / MIDI (joystick) port (DB-15) / audio line in / audio line out / microphone in
 SMART Reaction / monitoring of fans to operating system / Wake on LAN® support / no Alert on LAN™ / no Asset ID™

Keyboard / mouse
Cooling fans
Power supply

IBM Rapid Access™ IIe Keyboard (USB / no hub or USB ports) / IBM ScrollPoint® III mouse (USB)
 Three variable speed fans (power supply, rear, processor)
 200 watts / universal / manual switch

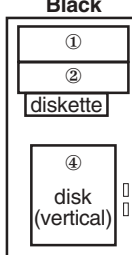
Preload with Windows Millennium Edition⁵
 Microsoft® Windows® Millennium Edition
 ♦ Lotus® SmartSuite® Millennium CD-ROM
 ♦ Software Selections CD-ROM
 ♦ Windows Millennium Edition Product Recovery CD
 ♦ Disk-to-Disk Recovery (Millennium Edition in hidden service partition)
 Microsoft Works models include
 - Microsoft Works Suite 2001 (Word 2000, Works 6.0, Encarta® Encyclopedia Standard 2001, Money 2001, Picture It!® Publishing 2001, Streets & Trips 2001, Outlook® Express)

Options

64MB PC800 NP RDRAM RIMM (4 Dev)	20L0270
128MB PC800 NP RDRAM RIMM (8 Dev)	20L0271
256MB PC800 NP RDRAM RIMM (16 Dev)	20L0273
512MB PC800 ECC RDRAM RIMM (16 Dev)	33L3254
IBM 30GB ATA-100 EIDE HDD	09N9890
IBM 9.4GB DVD-RAM (black)	10K3561
IBM IDE 48X-20X ⁴ CD-ROM (black)	10K3782
IBM IDE 16X Max DVD-ROM (black)*	22P6950
IBM IDE 12X/8X/32X CD-RW (black)	10K3785
IBM 250MB Zip Drive (black)**	00N8078
IBM NetVista USB-Parallel Printer Cable	19K4164
IBM P76 Color Monitor (black)	655063N
IBM P96 Color Monitor (black)	655163N

* requires MPEG-2 PCI decoder 33L5009
 ** requires 3.5" to 5.25" Bracket Kit 70G8165

Micro Tower Black



Slot 1: 9" max length, 32-bit AGP 4X (universal) - used by graphics
 Slot 2: 9" max length, 32-bit PCI 2.2 (5v) - ethernet or 1394 (some)
 Slot 3: 9" max length, 32-bit PCI 2.2 (5v) - used by modem adapter
 Slot 4: 9" max length, 32-bit PCI 2.2 (5v) - used by sound adapter
 Bay ① 5.25", HH 1.6", access, std CD-ROM or CD-RW
 Bay ② 5.25", HH 1.6" access, open or DVD-ROM
 Bay ③ 3.5", SL 1", access, std diskette
 Bay ④ 3.5", SL 1", no access, std disk
 ⇨ H 15.0" x W 7.6" x D 15.0"
 ⇨ H 381mm x W 194mm x D 381mm
 ⇨ 22.5 pounds max (10.2 kg)

- BIOS Setup Utility via F1 at startup
- Boot Menu via F12 at startup
- Product Recovery Pgm via F11 at startup
- Adv Config Power Interface (ACPI) 1.0
- LANClient Control Manager™ enabled
- DMI 2.0-compliant

SECURITY

- U-bolt anchoring feature
- Padlock support (user supplied)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard or mouse
- Diskette boot inhibit and write-protect
- Serial port, parallel port I/O control
- No keylock or intrusion detection

LIMITED WARRANTY*⁹

- ⇨ **3 year parts and labor limited warranty**
- ⇨ **On site, 8 am through 5 pm, Mon through Fri excluding holidays, second business day response time**
- ⇨ **24 hour x 7 day telephone, electronic, and Internet support**

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US models announced April 24, 2001; others announced March 6, 2001
 US models withdrawn from marketing effective November 2001 or December 2001
 No warranties are expressed or implied in this summary (6832) © IBM Corp. November 2001

IBM® NetVista™ A60 (6838) - withdrawn

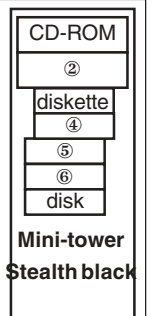
IBM® Type-model	Processor	GHz ¹	Memory	Disk and rpm	CD-ROM	Graphics adapter and memory	Slots x bays	ethernet	Preload	Available date
6838-C1U	Pentium® 4	1.4	128MB	15GB ² EIDE 7.2K	48X-20X ⁴	NVIDIA™ M64 16MB	6 x 7	10/100	Windows® 2000 or NT	Dec 00
6838-D1U	Pentium 4	1.5	128MB	45GB EIDE 7.2K	48X-20X	NVIDIA GeForce2 MX 32MB	6 x 7	10/100	Windows 2000 or NT	Dec 00

Intel® processor L2 cache Implementation	Pentium® 4 at 1.4 or 1.5GHz¹ with 400MHz Front Side Bus 256KB std and max / at processor speed Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA2) / motherboard contains one Intel PGA423 socket (with Pentium 4 and heat sink), four RIMM sockets, five PCI slots, one AGP slot, integrated ethernet, and 850 chip w/ heat sink
SMP support	No SMP support
Memory - std / max Memory - features	128MB std / 2GB max / dual RDRAM (Rambus) channels / 32 devices max each channel / Two 4D 64MB PC600 RIMMs / non-parity / four 184-pin gold-plated RIMM sockets (two per channel) / two RIMMs installed (one per channel) / CRIMMs in two sockets / supports PC600 or PC800 RIMMs (not PC700) / mixing PC600 and PC800 RIMMs results in PC600 performance / all installed RIMMs must be installed in pairs across both channels / supports optional ECC RIMMs (mixing non-parity and ECC RIMMs results in non-parity)

Graphics controller (one of following)	<ul style="list-style-type: none"> • NVIDIA M64 (2D and 3D) / AGP 4X adapter / TNT2 GPU / 16MB std and max 125MHz SDRAM / one analog DB-15 connector • NVIDIA GeForce2 MX (advanced 2D and 3D) / AGP 4X adapter / GeForce2 GPU / 32MB std and max 166MHz SDRAM / one analog DB-15 connector and one DVI-D connector (single head; only one connector used at once)
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IDE disk controller Cables Disk - features	Enhanced IDE busmaster / ATA-100 / two connectors on planar Two EIDE cables (one 2-drop cable to CD, one 2-drop cable to EIDE disk) 15 or 45GB EIDE / ATA-100 / 7200 rpm / S.M.A.R.T. ³	<p align="center">SECURITY</p> <ul style="list-style-type: none"> • Cover key lock • Cover tamper detect switch • Secure fixed DASD • Power-on password • Administrator password • Keyboard/mouse password • Boot sequence control • Boot without keyboard or mouse • Diskette boot inhibit and write-protect • Disable mouse • Diskette, disk, serial port, parallel port I/O control • Secure access openings • VPD stored in EEPROM • Write protection control for EEPROM • Barcode labels on most components • IBM Security Solutions
Rack support Architecture / chipsets	4U ¹⁷ rack mount support via tower-to-rack kit option Intel 850 chip set / MCH (Memory Controller Hub) / I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / SMC LPC47M102 Super I/O off LPC interface	
100/10Mbps ethernet	Intel 82562EM / on planar / 10BaseT, 100BaseTX / full duplex / RJ-45 port / LAN Connect Interface / controller in ICH2 and 82562EM / support for Wake on LAN®, Alert on LAN™, Preboot eXecution Envir (PXE)	
CD-ROM Diskette Audio	48X-20X ⁴ CD-ROM (ATAPI), bootable 3.5" 1.44MB diskette drive Soft audio AC '97 v2.1 controller via ICH2 (powered speakers required)	
External ports	<i>Serial</i> : Two 9 pin; <i>Parallel</i> : One (EPP, ECP) / IEEE 1284; <i>USB</i> : Four (Ver 1.1); keyboard, mouse, audio line in, audio line out, microphone in	
Systems mgmt	SMART Reaction™ / monitoring and alerting of thermal, fans, and voltage faults	
Keyboard / mouse Cooling fans	IBM 104-key keyboard / IBM ScrollPoint™ II mouse (3 button with scrolling button) Three variable speed fans (power supply, rear, processor) / not redundant or hot-swap	
Power supply	340 watts / universal / auto sensing	

- Bay ① 5.25", HH 1.6", access, CD-ROM
- Bay ② 5.25", HH 1.6", access, open or tape
- Bay ③ 3.5", SL 1", access, diskette
- Bay ④ 3.5", SL 1", access, open
- Bay ⑤ 3.5", SL 1", access, open
- Bay ⑥ 3.5", SL 1", access, open
- Bay ⑦ 3.5", SL 1", access, disk



Preload with Windows 2000 Professional⁵	
Microsoft® Windows® 2000 Professional	
- License for Lotus® SmartSuite® Millennium	
- License for Lotus Notes® Client	
✦ Device Drivers and Diagnostics CD-ROM	
✦ Software Selections CD-ROM	
✦ Windows 2000 Product Recovery CD-ROM	
✦ Windows NT® 4.0 (SP6) Product Recovery CD	
✦ Disk-to-Disk Recovery (Windows 2000 or Windows NT 4.0 SP6 in hidden service partition)	
Options	
64MB PC800 NP RDRAM RIMM (4 Dev)	20L0270
128MB PC800 NP RDRAM RIMM (8 Dev)	20L0271
256MB PC800 NP RDRAM RIMM (16 Dev)	20L0273
IBM 4Ux20D Tower-to-Rack Kit	09N4300
IBM 15GB ATA-66 EIDE HDD	19K4460
IBM 40GB ATA-100 EIDE HDD	09N0964
IBM 9.4GB DVD-RAM (black)	10K3561
IBM IDE 16X Max DVD-ROM (black)*	10K3576
IBM IDE 8X/4X/32X CD-Rewritable (black)	33L5020
IBM 250MB Zip Drive (black)	00N8078
IBM NetVista USB-Parallel Printer Cable	19K4164
IBM P76 Color Monitor (black)	655063N
IBM P96 Color Monitor (black)	655163N
* requires MPEG-2 PCI decoder	33L5009

- Slot 1: fullsize, AGP 4X Pro50 (1.5v) - used by std AGP graphics adapter
- Slot 2: fullsize, 32-bit 33MHz, PCI 2.2 (5v)
- Slot 3: fullsize, 32-bit 33MHz, PCI 2.2 (5v)
- Slot 4: fullsize, 32-bit 33MHz, PCI 2.2 (5v)
- Slot 5: fullsize, 32-bit 33MHz, PCI 2.2 (5v)
- Slot 6: fullsize, 32-bit 33MHz, PCI 2.2 (5v)

- ✦ Metal cage for disk bays 5,6,7 rotates out of chassis
- ✦ Two front stabilizing feet
- ✦ Handle grip on top
- ✦ H 18.5" x W 6.5" x D 20.0"
- ✦ H 470mm x W 165mm x D 508mm
- ✦ 36 to 42 pounds (16.4 to 19.1kg)

- Removable left side panel
- BIOS Setup Utility via F2 at startup
- Product Recovery Pgm via F11 at startup
- Adv Config Power Interface (ACPI) 1.0
- LANClient Control Manager™ enabled
- DMI 2.0-compliant

LIMITED WARRANTY⁹

- ✦ **3 year parts and labor limited warranty**
- ✦ **International Warranty Service⁹**
- ✦ **On site, 8 am through 5 pm, Mon through Fri excluding holidays, next business day response time⁷**
- ✦ **3 year on site option available:**
 - **4 hour response⁷, 7 day x 24 hr**
- ✦ **Post warranty maintenance services available**
- ✦ **IBM SystemXtra® available¹⁶**
- ✦ **24 hour x 7 day telephone, electronic, and Internet support**

All trademarks are the property of their respective owners
US models announced November 21, 2000
US models withdrawn from marketing effective May 2001

No warranties are expressed or implied in this summary
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IBM® NetVista™ A60 (6833) - withdrawn

IBM® Type-model	Processor	GHz ¹	Memory	Disk and rpm	Optical	Graphics adapter and memory	Slots x bays	Ethernet	Preload	Office 2000	Available date
6833-20U	Pentium® 4	1.3	128MB	20GB ² EIDE value	CD-ROM	NVIDIA™ TNT2 32MB	4x4	10/100	Windows® 2000	SmB	Mar 2001
6833-21U	Pentium 4	1.3	256MB	40GB EIDE 7.2K	CD-RW	NVIDIA TNT2 32MB	4x4	10/100	Windows 2000	SmB	Mar 2001
6833-61U	Pentium 4	1.5	256MB	60GB EIDE 7.2K	CD-RW	NVIDIA TNT2 32MB	4x4	10/100	Windows 2000	SmB	Mar 2001
6833-23U	Pentium 4	1.3	128MB	20GB EIDE value	CD-ROM	NVIDIA TNT2 16MB	4x4	10/100	Windows 2000		Apr 2001
6833-25U	Pentium 4	1.3	128MB	20GB EIDE value	CD-ROM	NVIDIA TNT2 16MB	4x4	10/100	Windows Millennium		Apr 2001
6833-45U	Pentium 4	1.4	128MB	20GB EIDE value	CD-ROM	NVIDIA TNT2 16MB	4x4	10/100	Windows 2000		Apr 2001
6833-46U	Pentium 4	1.4	256MB	40GB EIDE 7.2K	CD-RW	NVIDIA TNT2 32MB	4x4	10/100	Windows 2000	SmB	Apr 2001
6833-71U	Pentium 4	1.7	256MB	60GB EIDE 7.2K	CD-RW	NVIDIA TNT2 32MB	4x4	10/100	Windows 2000	SmB	Apr 2001
6833-72U	Pentium 4	1.7	256MB	40GB EIDE 7.2K	DVD / CD-RW	NVIDIA TNT2 32MB	4x4	10/100	Windows 2000		Apr 2001
6833-73U	Pentium 4	1.7	256MB	60GB EIDE 7.2K	CD-RW	NVIDIA TNT2 32MB	4x4	10/100	Windows 2000		Apr 2001

Processor **Intel® Pentium® 4 1.3, 1.4, 1.5, or 1.7GHz¹ with 400MHz¹ Front Side Bus**
 L2 cache **256KB** std and max / at processor speed
 Implementation Processor and L2 cache in Pin Grid Array (PGA) / motherboard contains one Intel PGA423 socket (with Pentium 4 and heat sink), four RIMM sockets, three PCI slots, one AGP slot, and 850 chipset with heat sink
 SMP support No SMP support

Memory - std / max **128MB or 256MB std / 1.5GB max / dual RDRAM (Rambus) channels / 32 devices max each channel**
 Memory - features **128MB models:** Two 4D 64MB PC800 RIMMs, non-parity
256MB models: Two 8D 128MB PC800 RIMMs, non-parity
 Four 184-pin gold-plated RIMM sockets (two per channel) / two RIMMs installed (one per channel) / CRIMMs in two sockets / supports PC600 or PC800 RIMMs (not PC700) / mixing PC600 and PC800 RIMMs results in PC600 performance / all installed RIMMs must be installed in pairs across both channels / no support for ECC function

Graphics controller (one of the following) **• NVIDIA TNT2 M64 (2D and 3D) / AGP 4X adapter / TNT2 GPU / 16MB** std and max 125MHz SDRAM / max resolution of 1600x1200 with 16.7 million colors at 85Hz / one analog DB-15 connector
• NVIDIA TNT2 M64 (2D and 3D) / AGP 4X adapter / TNT2 GPU / 32MB std and max 125MHz SDRAM / max resolution of 1600x1200 with 16.7 million colors at 85Hz / one analog DB-15 connector

IDE disk controller Enhanced IDE busmaster / ATA-100 / two connectors on planar
 Cables Two EIDE cables (one 2-drop cable to CD, one 1-drop cable to EIDE disk)
 Disk - features Enhanced IDE (EIDE) / ATA-100 / S.M.A.R.T.³

Chipsets **Intel 850 chip set / MCH (Memory Controller Hub) / I/O Controller Hub (ICH2)** for PCI 2.2 bus, ATA-100 EIDE, USB, Low Pin Count Interface / Firmware Hub / Winbond® W83627F Super I/O off LPC interface

100/10Mbps ethernet 10/100 ethernet / Accton® PCI adapter / 10BaseT, 100BaseTX / full duplex / RJ-45 port / part number 19K4310
 CD-ROM *Some models:* 48X-20X⁴ CD-ROM (ATAPI), bootable
 CD-RW¹¹ *Some models:* 12X-8X-32X⁴ CD-RW (ATAPI), bootable
 DVD *Some models:* 16X-40X⁴ DVD (ATAPI), bootable
 Diskette 3.5" 1.44MB diskette drive
 Audio Integrated digital audio / software-based (done by processor and ICH2) / AC '97 interface / ADI 1881 codec / powered speakers required
 External ports Four USB (two in front, two in back) [Ver 1.1] / one serial 9-pin / parallel (EPP, ECP), IEEE 1284 / keyboard / mouse / MIDI (joystick) port (DB-15) / audio line in / audio line out / microphone in
 Systems mgmt SMART Reaction / Wake on LAN® support / no Alert on LAN™ / no Asset ID™ (RFID)

Keyboard / mouse IBM 104-key keyboard / IBM 2-button mouse
 Cooling fans Three variable speed fans (power supply, rear, processor) / not redundant
 Power supply 200 watts / universal / manual switch

Micro Tower Black

Slot 1: 9" max length, 32-bit AGP 4X (universal) - used by graphic adapter
 Slot 2: 9" max length, 32-bit PCI 2.2 (5v) - used by ethernet adapter
 Slot 3: 9" max length, 32-bit PCI 2.2 (5v)
 Slot 4: 9" max length, 32-bit PCI 2.2 (5v)

Bay ① 5.25", HH 1.6", access, standard CD-ROM or CD-RW
 Bay ② 5.25", HH 1.6" access, open or DVD
 Bay ③ 3.5", SL 1", access, standard diskette
 Bay ④ 3.5", SL 1", no access, standard disk

⊕ Handle grip on top
 ⊕ H 15.0" x W 7.6" x D 15.0"
 ⊕ H 381mm x W 194mm x D 381mm
 ⊕ 22.5 pounds max (10.2 kg)

Preload with Windows 2000 Professional⁵
 Microsoft® Windows® 2000 Professional
 ⊕ Windows 2000 Product Recovery CD
 ⊕ Windows NT® 4.0 (SP6) Product Recovery CD
 ⊕ Disk-to-Disk Recovery (Windows 2000 or Windows NT 4.0 SP6 in hidden service partition)

Preload with Windows Millenium⁵
 Microsoft® Windows® Millenium
 ⊕ Windows Millenium Product Recovery CD
 ⊕ Disk-to-Disk Recovery (in hidden service partition)

All models include
 - Lotus® SmartSuite® Millennium License
 - Lotus Notes® Client License
 ⊕ Software Selections CD

Microsoft Office Small Business models
 • Microsoft Office 2000 Small Business (Word, Excel, Outlook, Publisher, Small Business Tools)
 ⊕ Microsoft Office Small Business CD

• BIOS Setup Utility via F1 at startup
 • Boot Menu via F12 at startup
 • Product Recovery Pgm via F11 at startup
 • Adv Config Power Interface (ACPI) 1.0
 • LANClient Control Manager™ enabled
 • DMI 2.0-compliant

Options

64MB PC800 NP RDRAM RIMM (4 Dev)	20L0270
128MB PC800 NP RDRAM RIMM (8 Dev)	20L0271
256MB PC800 NP RDRAM RIMM (16 Dev)	20L0273
512MB PC800 ECC RDRAM RIMM (16 Dev)	33L3254
IBM 30GB ATA-100 EIDE HDD	09N9890
IBM 9.4GB DVD-RAM (black)	10K3561
IBM IDE 48X-20X ⁴ CD-ROM (black)	10K3782
IBM IDE 16X Max DVD-ROM (black)*	22P6950
IBM IDE 12X/8X/32X CD-RW (black)	10K3785
IBM 250MB Zip Drive (black)**	00N8078
IBM NetVista USB-Parallel Printer Cable	19K4164
IBM P76 Color Monitor (black)	655063N
ServicePac Warranty 3yr IOR 7x24x4	41L2740

* requires MPEG-2 PCI decoder 33L5009
 ** requires 3.5" to 5.25" Bracket Kit 70G8165

SECURITY

- U-bolt anchoring feature (U-bolt assembly is optional)
- Padlock support (user supplied)
- Power-on password
- Administrator password
- Boot sequence control
- Boot without keyboard or mouse
- Diskette boot inhibit and write-protect
- Disable mouse
- Diskette, disk, serial port, parallel port I/O control
- No system keylock or chassis intrusion detection

LIMITED WARRANTY*⁹

- ⇒ **3 year parts and labor limited warranty**
- ⇒ **International Warranty Service⁹**
- ⇒ **On site, 8 am through 5 pm, Mon through Fri excluding holidays, next business day response time⁷**
- ⇒ **3 year on site warranty service option:**
 - 4 hour response, 7 day x 24 hr⁷
- ⇒ **Post warranty maintenance services available**
- ⇒ **24 hour x 7 day telephone, electronic, and Internet support**

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US models announced April 24, 2001; others announced March 6, 2001
 US models withdrawn from marketing effective November 2001 or December 2001
 No warranties are expressed or implied in this summary (6833) © IBM Corp. November 2001

IBM® NetVista™ A60 (6833) - Summer 2001 - withdrawn

IBM® Type-model	Processor	GHz ¹	Memory	Disk and rpm	Optical	Graphics adapter and memory	Slots x bays	Ethernet	Preload	Office 2000	Available date
6833-E1U	Pentium® 4	1.5	128MB	20GB ² EIDE value	CD-ROM	NVIDIA™ TNT2 16MB	4x4	10/100	Windows® 2000		Aug 2001
6833-E2U	Pentium 4	1.5	128MB	20GB EIDE value	CD-ROM	NVIDIA TNT2 32MB	4x4	10/100	Windows 2000	Small Bus	Aug 2001
6833-E3U	Pentium 4	1.5	128MB	40GB EIDE 7.2K	CD-RW	NVIDIA TNT2 32MB	4x4	10/100	Windows 2000	Small Bus	Aug 2001

Processor	Intel® Pentium® 4 1.5GHz¹ with 400MHz¹ Front Side Bus																																						
L2 cache	256KB std and max / at processor speed																																						
Implementation	Processor and L2 cache in Pin Grid Array (PGA) / motherboard contains one Intel PGA423 socket (with Pentium 4 and heat sink), four RIMM sockets, three PCI slots, one AGP slot, and 850 chipset with heat sink																																						
SMP support	No SMP support																																						
Memory - std / max	128MB std / 1.5GB max / dual RDRAM (Rambus) channels / 32 devices max each channel																																						
Memory - features	Two 4D 64MB PC800 RIMMs, non-parity Four 184-pin gold-plated RIMM sockets (two per channel) / two RIMMs installed (one per channel) / CRIMMs in two sockets / supports PC600 or PC800 RIMMs (not PC700) / mixing PC600 and PC800 RIMMs results in PC600 performance / all installed RIMMs must be installed in pairs across both channels / no support for ECC function																																						
Graphics controller (one of the following)	<ul style="list-style-type: none"> • NVIDIA TNT2 M64 (2D and 3D) / AGP 4X adapter / TNT2 GPU / 16MB std and max 125MHz SDRAM / max resolution of 1600x1200 with 16.7 million colors at 85Hz / one analog DB-15 connector • NVIDIA TNT2 M64 (2D and 3D) / AGP 4X adapter / TNT2 GPU / 32MB std and max 125MHz SDRAM / max resolution of 1600x1200 with 16.7 million colors at 85Hz / one analog DB-15 connector 																																						
IDE disk controller	Enhanced IDE busmaster / ATA-100 / two connectors on planar																																						
Cables	Two EIDE cables (one 2-drop cable to CD, one 1-drop cable to EIDE disk)																																						
Disk - features	Enhanced IDE (EIDE) / ATA-100 / S.M.A.R.T. ³																																						
Chipset	Intel 850 chip set / MCH (Memory Controller Hub) / I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, USB, Low Pin Count Interface / Firmware Hub / Winbond® W83627F Super I/O off LPC interface																																						
100/10Mbps ethernet	10/100 ethernet / Accton® PCI adapter / 10BaseT, 100BaseTX / full duplex / RJ-45 port / part number 19K4310																																						
CD-ROM	<i>Some models:</i> 48X-20X ⁴ CD-ROM (ATAPI), bootable																																						
CD-RW ¹¹	<i>Some models:</i> 12X-8X-32X ⁴ CD-RW (ATAPI), bootable																																						
DVD	Optional																																						
Diskette	3.5" 1.44MB diskette drive																																						
Audio	Integrated digital audio / software-based (done by processor and ICH2) / AC '97 interface / ADI 1881 codec / powered speakers required																																						
External ports	Four USB (two in front, two in back) [Ver 1.1] / one serial 9-pin / parallel (EPP, ECP), IEEE 1284 / keyboard / mouse / MIDI (joystick) port (DB-15) / audio line in / audio line out / microphone in																																						
Systems mgmt	SMART Reaction / Wake on LAN® support / no Alert on LAN™ / no Asset ID™ (RFID)																																						
Keyboard / mouse	IBM 104-key keyboard / IBM 2-button mouse																																						
Cooling fans	Three variable speed fans (power supply, rear, processor) / not redundant																																						
Power supply	200 watts / universal / manual switch																																						
Micro Tower Black	<p>Slot 1: 9" max length, 32-bit AGP 4X (universal) - used by graphic adapter Slot 2: 9" max length, 32-bit PCI 2.2 (5v) - used by ethernet adapter Slot 3: 9" max length, 32-bit PCI 2.2 (5v) Slot 4: 9" max length, 32-bit PCI 2.2 (5v)</p> <p>Bay ① 5.25", HH 1.6", access, standard CD-ROM or CD-RW Bay ② 5.25", HH 1.6" access, open or DVD Bay ③ 3.5", SL 1", access, standard diskette Bay ④ 3.5", SL 1", no access, standard disk</p> <p>⊕ Handle grip on top ⊕ H 15.0" x W 7.6" x D 15.0" ⊕ H 381mm x W 194mm x D 381mm ⊕ 22.5 pounds max (10.2 kg)</p>																																						
Options	<table border="0"> <tr> <td>64MB PC800 NP RDRAM RIMM (4 Dev)</td> <td>20L0270</td> </tr> <tr> <td>128MB PC800 NP RDRAM RIMM (8 Dev)</td> <td>20L0271</td> </tr> <tr> <td>256MB PC800 NP RDRAM RIMM (16 Dev)</td> <td>20L0273</td> </tr> <tr> <td>512MB PC800 ECC RDRAM RIMM (16 Dev)</td> <td>33L3254</td> </tr> <tr> <td>IBM 30GB ATA-100 EIDE HDD</td> <td>09N9890</td> </tr> <tr> <td>IBM IDE 48X-20X⁴ CD-ROM (black)</td> <td>10K3782</td> </tr> <tr> <td>IBM IDE 12X/8X/32X CD-RW (black)</td> <td>10K3785</td> </tr> <tr> <td>IBM IDE 16X-40X DVD-ROM (black)</td> <td>10K3576</td> </tr> <tr> <td>IBM 9.4GB DVD-RAM (black)</td> <td>10K3561</td> </tr> <tr> <td>IBM 250MB Zip Drive (black)**</td> <td>00N8078</td> </tr> <tr> <td>IBM NetVista USB-Parallel Printer Cable</td> <td>19K4164</td> </tr> <tr> <td>32MB NVIDIA GeForce2 MX with TV out</td> <td>00N8066</td> </tr> <tr> <td>IBM P76 Color Monitor (black)</td> <td>655063N</td> </tr> <tr> <td>ServicePac Warranty 3yr IOR 7x24x4</td> <td>41L2740</td> </tr> </table> <p>** requires 3.5" to 5.25" Bracket Kit 70G8165</p>											64MB PC800 NP RDRAM RIMM (4 Dev)	20L0270	128MB PC800 NP RDRAM RIMM (8 Dev)	20L0271	256MB PC800 NP RDRAM RIMM (16 Dev)	20L0273	512MB PC800 ECC RDRAM RIMM (16 Dev)	33L3254	IBM 30GB ATA-100 EIDE HDD	09N9890	IBM IDE 48X-20X ⁴ CD-ROM (black)	10K3782	IBM IDE 12X/8X/32X CD-RW (black)	10K3785	IBM IDE 16X-40X DVD-ROM (black)	10K3576	IBM 9.4GB DVD-RAM (black)	10K3561	IBM 250MB Zip Drive (black)**	00N8078	IBM NetVista USB-Parallel Printer Cable	19K4164	32MB NVIDIA GeForce2 MX with TV out	00N8066	IBM P76 Color Monitor (black)	655063N	ServicePac Warranty 3yr IOR 7x24x4	41L2740
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SECURITY	<ul style="list-style-type: none"> • U-bolt anchoring feature (U-bolt assembly is optional) • Padlock support (user supplied) • Power-on password • Administrator password • Boot sequence control • Boot without keyboard or mouse • Diskette boot inhibit and write-protect • Disable mouse • Diskette, disk, serial port, parallel port I/O control • No system keylock or chassis intrusion detection 																																						
LIMITED WARRANTY*⁹	<ul style="list-style-type: none"> ⊕ 3 year parts and labor limited warranty ⊕ International Warranty Service⁹ ⊕ On site, 8 am through 5 pm, Mon through Fri excluding holidays, next business day response time⁷ ⊕ 3 year on site warranty service upgrade options: <ul style="list-style-type: none"> • 4 hour response, Mon-Fri 8-5⁷ • 4 hour response, 7 day x 24 hr⁷ ⊕ Post warranty maintenance services available ⊕ 24 hour x 7 day telephone, electronic, and Internet support 																																						

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
 US models announced August 28, 2001; withdrawn effective December 2001

No warranties are expressed or implied in this summary
 (6833R) © IBM Corp. November 2001

Name	Type-model	Color	Slot x bay	Processor	GHz	L2 cache	Mem	Disk	CD-ROM	Graphics	Security	Preload	Available date
M41	6790-11U	Black	4x3	Pentium® 4	1.6GHz	256KB	128MB	40GB ²	CD-ROM	NVIDIA™ 16MB		Windows® 2000 ⁵	Oct 2001
M41	6790-13U	Black	4x3	Pentium 4	1.6GHz	256KB	128MB	40GB	CD-ROM	NVIDIA 16MB		Windows XP Home	Oct 2001
M41	6790-21U	Black	4x3	Pentium 4	1.8GHz	256KB	128MB	40GB	CD-ROM	NVIDIA 16MB		Windows 2000	Oct 2001
M41	6790-22U	Black	4x3	Pentium 4	1.8GHz	256KB	128MB	40GB	CD-ROM	NVIDIA 16MB		Windows 2000	Oct 2001
M41	6790-23U	Black	4x3	Pentium 4	1.8GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB	Chip	Windows 2000	Oct 2001
M41	6790-31U	Black	4x3	Pentium 4	2.0GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB		Windows 2000	Oct 2001
M41	6790-32U	Black	4x3	Pentium 4	2.0GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB	Chip	Windows 2000	Oct 2001
M41	6790-2DU	Black	4x3	Pentium 4	1.8GHz	256KB	128MB	40GB	CD-ROM	NVIDIA 16MB		Windows XP Pro	Nov2001
M41	6790-25U	Black	4x3	Pentium 4	1.8GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB	Chip	Windows XP Pro	Nov2001
M41	6790-34U	Black	4x3	Pentium 4	2.0GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB		Windows XP Pro	Nov2001
M41	6790-35U	Black	4x3	Pentium 4	2.0GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB	Chip	Windows XP Pro	Nov2001
M41	6790-31U	Black	4x3	Pentium 4	2.2GHz	512KB	256MB	40GB	CD-ROM	NVIDIA 16MB		Windows 2000	Feb 2002
M41	6790-43U	Black	4x3	Pentium 4	2.2GHz	512KB	256MB	40GB	CD-ROM	NVIDIA 16MB		Windows XP Pro	Feb 2002
M41	6790-44U	Black	4x3	Pentium 4	2.2GHz	512KB	256MB	40GB	CD-ROM	NVIDIA 16MB	Chip	Windows XP Pro	Feb 2002
M41	6790-3AU	Black	4x3	Pentium 4	2.0GHz	512KB	256MB	40GB	CD-ROM	NVIDIA 16MB		Windows XP Pro	Feb 2002
M41	6790-3BU	Black	4x3	Pentium 4	2.0GHz	512KB	256MB	40GB	CD-ROM	NVIDIA 16MB	Chip	Windows XP Pro	Feb 2002

Positioning	<i>Maximum performance and stability with enhanced security models</i>		Desktop
Processor	Intel® Pentium 4 at 1.6, 1.8, 2.0, or 2.2GHz with 400MHz frontside bus		Small Form Factor
L2 cache	256KB or 512KB std and max / ECC / full speed		
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket		Bay ① 3.5", SL 1", access, std diskette
Memory - std/max	128MB or 256MB std / 1GB max		Bay ② 5.25", HH 1.6", access, std CD-ROM
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used		Bay ③ 3.5", SL 1", no access, std disk
Memory - type	133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2) / supports optional ECC		Slot 1: Low Profile, 32-bit AGP 4X (1.5v) - used
Graphics controller	<ul style="list-style-type: none"> • NVIDIA Vanta (2D and 3D) / AGP 4X adapter / TNT2 Vanta GPU / 16MB std and max 125MHz SDRAM / 250MHz RAMDAC / one analog DB-15 connector 		Slot 2: Low Profile, 32-bit PCI 2.2 (5v)
Disk	ATA-100, SMART ³ III; <i>20GB</i> : value, <i>40GB</i> : 7200 rpm		Slot 3: Low Profile, 32-bit PCI 2.2 (5v)
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH2)		Slot 4: Low Profile, 32-bit PCI 2.2 (5v)
Diskette drive	3.5" 1.44MB diskette drive		<ul style="list-style-type: none"> • 14.2" W X 16.2"D X 4.1"H • 360mm W X 412mm D X 104mm H • 20.0 to 22.0 lb (9.1 to 10.0 kg) • Stealth black color • Bays 1 and 2/3 flip up (latched and pivoting) • Toolless rails for disk mounting • Toolless cover removal • Toolless AGP and PCI slots • Support for 100 lb monitor on top
CD-ROM	48X-20X ⁴ CD-ROM / bootable		
DVD-ROM	Option		
Cables	Two EIDE 80-conductor cables (one 1-drop cable to CD, one 1-drop cable to disk)		
Chipset	Intel 845 chipset / 82845 Memory Controller Hub (MCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / National [®] 87360 Super I/O for diskette, parallel, serial, keyboard, mouse		SYSTEMS MANAGEMENT
Ports	<i>Front</i> : two USB (Version 1.1) <i>Back</i> : two 9-pin serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor		<ul style="list-style-type: none"> • PC 2001-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0b • System Management BIOS • DMI 2.0-compliant • Wired for Management 2.0-compliant
Audio	Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)		SECURITY
Audio connectors	<i>Back</i> : microphone jack, line-in, line-out		<ul style="list-style-type: none"> • U bolt anchoring feature (U-bolt assembly is optional) • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control • <i>Some models</i>: Security chip providing encryption, Asset ID™ (RFID)¹³, and C2 tamper switch
Speakers	One internal speaker for business audio		
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN [®] / Intel Pro/100VE Desktop Connection		
Security chip	<i>Some models</i> : IBM Embedded Security Subsystem¹⁸ / daughtercard attached to motherboard which enables 256-bit encryption, Asset EEPROM, RFID antenna ¹³ , and C2 tamper switch		
Keyboard / mouse	106-key (rubber dome) keyboard / IBM 2-button mouse		
Cooling fans	Two or three variable speed fans (power supply, fansink, some have third fan)		
Power supply	160 watts with variable speed fan / universal / manual switch		
Preload with Windows 2000⁵	Options		
Microsoft® Windows® 2000 Professional	64MB SDRAM 133MHz CL2 NP DIMM	10K0055	
Lotus® SmartSuite [®] license ⁵	128MB SDRAM 133MHz CL2 NP DIMM	10K0057	
Lotus Notes [®] Client 5.0 license ⁶	256MB SDRAM 133MHz CL2 NP DIMM	10K0059	
- Disk-to-Disk Recovery (in Service Partition)	512MB SDRAM 133MHz CL2 NP DIMM	10K0061	
❖ Software Selections CD-ROM	2-Piece Speakers (black)	33L3440	
	40GB IDE Disk ATA-100 (5400 rpm)	22P7156	
	60GB IDE Disk ATA-100 (7200 rpm)	09N4207	
Preload with Windows XP Home⁵	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950	
Microsoft Windows XP Home Edition	40X/12X/40X Max ⁴ CD-RW internal (blk)	22P6976	
Lotus SmartSuite license ⁶	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM		
Lotus Notes Client 5.0 license ⁶	Combo drive (black)	10K3790	
- Disk-to-Disk Recovery (in Service Partition)	IBM DVD-RAM/DVD-R Drive (black)	22P6959	
❖ Software Selections CD-ROM	Zip Drive 250MB (white/black)	00N8078	
	IBM E94 19" (18.0" viewable) Monitor (blk)	633440N	
Preload with Windows XP Professional⁵	IBM T540 15" Flat Panel Monitor (black)	9511AG4	
Microsoft Windows XP Professional	IBM T560 15" Flat Panel Monitor (black)	6656HG2	
Lotus SmartSuite license ⁶	IBM E74M 17" (15.9" view) Monitor (blk)	651767N	
Lotus Notes Client 5.0 license ⁶	IBM Wireless keyboard and mouse (blk)	22P5170	
- Disk-to-Disk Recovery (in Service Partition)	IBM 675 Uninterruptable Power Supply	33L3478	
❖ Software Selections CD-ROM	IBM Optical 3-Button ScrollPoint [®] Mouse	33L3250	
	Other options at ibm.com/pc/us/accessories		
			LIMITED WARRANTY¹
			⇒ 3 year parts and labor
			⇒ International Warranty Service⁹
			⇒ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
			⇒ 3 year on site warranty service upgrade options¹:
			• 4 hour response, Mon-Fri 8-5 (ServicePac [®] part number 41L2734)
			• 4 hour response, 7 day x 24 hr (ServicePac part number 41L2740)
			⇒ Post warranty maintenance services available
			⇒ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹

See footnotes for important warranty information
 US models announced on Sept 18, 2001 or Nov 27, 2001 or January 22, 2002
 US models withdrawn effective March 2002 or July 2002 or October 2002

Name	Type-model	Color	Slot x bay	Processor	GHz	L2 cache	Mem	Disk	CD or DVD	Graphics	Security	Preload	Available date
M41	6792-11U	Black	4x4	Pentium® 4	1.6GHz	256KB	128MB	40GB ²	CD-ROM	NVIDIA™ 16MB		Windows® 2000 ⁵	Oct 2001
M41	6792-15U	Black	4x4	Pentium 4	1.6GHz	256KB	128MB	40GB	CD-ROM	NVIDIA 16MB		Windows XP Home	Oct 2001
M41	6792-21U	Black	4x4	Pentium 4	1.8GHz	256KB	128MB	40GB	CD-ROM	NVIDIA 16MB		Windows 2000	Oct 2001
M41	6792-22U	Black	4x4	Pentium 4	1.8GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB		Windows 2000	Oct 2001
M41	6792-23U	Black	4x4	Pentium 4	1.8GHz	256KB	256MB	40GB	DVD-ROM	NVIDIA 32MB		Windows 2000	Oct 2001
M41	6792-24U	Black	4x4	Pentium 4	1.8GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB	Chip	Windows 2000	Oct 2001
M41	6792-25U	Black	4x4	Pentium 4	1.8GHz	256KB	128MB	40GB	CD-ROM	NVIDIA 16MB		Windows XP Home	Oct 2001
M41	6792-31U	Black	4x4	Pentium 4	2.0GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB		Windows 2000	Oct 2001
M41	6792-32U	Black	4x4	Pentium 4	2.0GHz	256KB	256MB	40GB	DVD-ROM	NVIDIA 32MB		Windows 2000	Oct 2001
M41	6792-33U	Black	4x4	Pentium 4	2.0GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB	Chip	Windows 2000	Oct 2001
M41	6792-3DU	Black	4x4	Pentium 4	2.0GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB		Windows XP Pro	Oct 2001
M41	6792-2DU	Black	4x4	Pentium 4	1.8GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB		Windows XP Pro	Nov 2001
M41	6792-2EU	Black	4x4	Pentium 4	1.8GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB	Chip	Windows XP Pro	Nov 2001
M41	6792-3GU	Black	4x4	Pentium 4	2.0GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB	Chip	Windows XP Pro	Nov 2001
M41	6792-39U	Black	4x4	Pentium 4	2.0GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 32MB		Windows XP Pro	Nov 2001

Positioning
Processor
L2 cache
Implementation

Maximum performance and stability with enhanced security models
Intel® Pentium 4 at 1.6, 1.8, 2.0GHz with 400MHz frontside bus
256KB std and max / ECC / full speed
Processor and L2 cache in FC-PGA2 in mPGA478B socket

Memory - std/max
Memory - sockets
Memory - type

128MB or 256MB std / 1.5GB max
Three 168-pin gold plated DIMM sockets / one socket used
133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2) / supports optional ECC

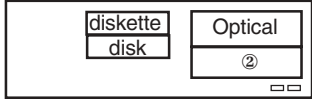
Graphics controller
(one of following)

- **NVIDIA Vanta** (2D and 3D) / AGP 4X adapter / TNT2 Vanta GPU / **16MB** std and max 125MHz SDRAM / 250MHz RAMDAC / one analog DB-15 connector
- **NVIDIA GeForce2 MX** (advanced 3D) / AGP 4X adapter / GeForce2 MX GPU / **32MB** std and max 166MHz SDRAM / 350MHz RAMDAC / one analog DB-15 connector

Disk
Disk controller
Diskette drive
CD-ROM
DVD-ROM
Cables

ATA-100, 7200 rpm, SMART³ III
Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH2)
3.5" 1.44MB diskette drive
Some models: 48X-20X⁴ CD-ROM / bootable
Some models: 16X/48X Max⁴ DVD (ATAPI), bootable
Two EIDE 80-conductor cables (one 2-drop cable to CD or DVD, one 1-drop cable to disk)

Desktop



Bay ① 5.25", HH 1.6", access, std CD or DVD
Bay ② 5.25", HH 1.6", access, open
Bay ③ 3.5", SL 1", access, std diskette
Bay ④ 3.5", SL 1", no access, std disk

Slot 1: full-length, full-height, 32-bit AGP 4X (1.5v) - used
Slot 2: full-length, full-height, 32-bit PCI 2.2 (5v)
Slot 3: full-length, full-height, 32-bit PCI 2.2 (5v)
Slot 4: full-length, full-height, 32-bit PCI 2.2 (5v)

- 16.7" W X 16.7"D X 5.5"H
- 425mm W X 425mm D X 140mm H
- 24 to 26.5 lb (10.9 to 12.0 kg)
- Stealth black color
- Bay 1 and 2 in cage flips up (latched and pivoting)
- Bay 3 and 4 in cage flips up (latched and pivoting)
- Toolless rails for disk mounting
- Toolless cover removal
- Toolless AGP and PCI slots

Chipset

Intel 845 chipset / 82845 Memory Controller Hub (MCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / National® 87360 Super I/O for diskette, parallel, serial, keyboard, mouse

Ports

Front: two USB (Version 1.1)
Back: two 9-pin serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor

Audio

Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)

Audio connectors
Speakers
Ethernet

Back: microphone jack, line-in, line-out
One internal speaker for business audio
10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN® / Intel Pro/100VE Desktop Connection

Security chip

Some models: **IBM Embedded Security Subsystem**¹⁸ / daughtercard attached to motherboard which enables 256-bit encryption, Asset EEPROM, RFID antenna¹³, and C2 tamper switch

Keyboard / mouse
Cooling fans
Power supply

106-key (rubber dome) keyboard / IBM 2-button mouse
Three variable speed fans (power supply, fansink, rear fan)
185 watts with variable speed fan / universal / manual switch

SYSTEMS MANAGEMENT

- PC 2001-compliant
- Advanced Power Management 1.2
- Advanced Configuration and Power Interface (ACPI) 1.0b
- System Management BIOS
- DMI 2.0-compliant
- Wired for Management 2.0-compliant

SECURITY

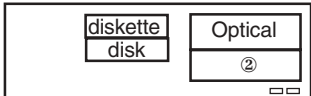
- U bolt anchoring feature (U-bolt assembly is optional)
- Power-on password
- Administrator password
- Boot sequence control
- Diskette boot inhibit
- Boot without keyboard or mouse
- Diskette and disk I/O control
- Serial/parallel I/O control
- *Some models:* Security chip providing encryption, Asset ID™ (RFID)¹³, and C2 tamper switch

Preload with Windows 2000 ⁵	Options	
Microsoft® Windows® 2000 Professional	64MB SDRAM 133MHz CL2 NP DIMM	10K0055
Lotus® SmartSuite® license ⁶	128MB SDRAM 133MHz CL2 NP DIMM	10K0057
Lotus Notes® Client 5.0 license ⁶	256MB SDRAM 133MHz CL2 NP DIMM	10K0059
- Disk-to-Disk Recovery (in Service Partition)	512MB SDRAM 133MHz CL2 NP DIMM	10K0061
⚡ Software Selections CD-ROM	2-Piece Speakers (black)	33L3440
	3-Piece Speakers (black)	33L3441
	40GB IDE Disk ATA-100 (5400 rpm)	22P7156
	60GB IDE Disk ATA-100 (7200 rpm)	09N4207
	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
	12X/8X/32X Max ⁴ CD-RW internal (black)	10K3785
	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	10K3790
	IBM DVD-RAM/DVD-R Drive (black)	22P6959
	Zip Drive 250MB (white/black)	00N8078
	IBM E94 19" (18.0" viewable) Monitor (blk)	633440N
	IBM T540 15" Flat Panel Monitor (black)	9511AG4
	IBM T560 15" Flat Panel Monitor (black)	6656HG2
	IBM E74M 17" (15.9" view) Monitor (blk)	651767N
	IBM Wireless keyboard and mouse (blk)	22P5170
	IBM 675 Uninterruptable Power Supply	33L3478
	IBM Optical 3-Button ScrollPoint® Mouse	33L3250

LIMITED WARRANTY¹

- ⇒ **3 year parts and labor**
- ⇒ **International Warranty Service⁹**
- ⇒ **On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time**
- ⇒ **3 year on site warranty service upgrade options⁷:**
 - **4 hour response, Mon-Fri 8-5** (ServicePac® part number 41L2734)
 - **4 hour response, 7 day x 24 hr** (ServicePac part number 41L2740)
- ⇒ **Post warranty maintenance services available**
- ⇒ **24x7¹⁴ toll-free support for warranty issues during the warranty period¹**

Name	Type-model	Color	Slot x bay	Processor	GHz	L2 cache	Mem	Disk	CD or DVD	Graphics	Security	Preload	W or G	Available date
M41	6792-42U	Black	4x4	Pentium® 4	2.2GHz	512KB	256MB	40GB ²	CD-ROM	NVIDIA™ 16MB		Windows® 2000 ⁵		Feb 2002
M41	6792-43U	Black	4x4	Pentium 4	2.2GHz	512KB	256MB	40GB	CD-ROM	NVIDIA 16MB		Windows XP Pro		Feb 2002
M41	6792-44U	Black	4x4	Pentium 4	2.2GHz	512KB	256MB	40GB	DVD-ROM	Radeon 64MB		Windows XP Pro		Feb 2002
M41	6792-45U	Black	4x4	Pentium 4	2.2GHz	512KB	256MB	40GB	CD-ROM	NVIDIA 16MB	Chip	Windows XP Pro		Feb 2002
M41	6792-2HU	Black	4x4	Pentium 4	1.8GHz	256KB	256MB	40GB	CD-ROM	NVIDIA 16MB		Windows XP Pro	W G	Feb 2002
M41	6792-2JU	Black	4x4	Pentium 4	1.8GHz	256KB	256MB	40GB	DVD-ROM	Radeon 64MB		Windows XP Pro		Feb 2002
M41	6792-3JU	Black	4x4	Pentium 4	2.0GHz	512KB	256MB	40GB	DVD-ROM	NVIDIA 16MB		Windows XP Pro	W G	Feb 2002
M41	6792-3KU	Black	4x4	Pentium 4	2.0GHz	512KB	256MB	40GB	DVD-ROM	Radeon 64MB		Windows XP Pro		Feb 2002
M41	6792-3MU	Black	4x4	Pentium 4	2.0GHz	512KB	256MB	40GB	CD-ROM	NVIDIA 16MB		Windows XP Pro		Feb 2002
M41	6792-3NU	Black	4x4	Pentium 4	2.0GHz	512KB	256MB	40GB	CD-ROM	GeForce2 32MB		Windows XP Pro		Feb 2002
M41	6792-3SU	Black	4x4	Pentium 4	2.0GHz	512KB	256MB	40GB	CD-ROM	NVIDIA 16MB	Chip	Windows 2000		Feb 2002
M41	6792-3VU	Black	4x4	Pentium 4	2.0GHz	512KB	256MB	40GB	CD-ROM	NVIDIA 16MB	Chip	Windows XP Pro		Feb 2002

Positioning Processor	Maximum performance and stability with enhanced security models Intel® Pentium 4 at 1.8, 2.0, and 2.2GHz with 400MHz frontside bus		Desktop Bay ① 5.25", HH 1.6", access, std CD or DVD Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk Slot 1: full-length, full-height, 32-bit AGP 4X (1.5v) - used Slot 2: full-length, full-height, 32-bit PCI 2.2 (5v) Slot 3: full-length, full-height, 32-bit PCI 2.2 (5v) Slot 4: full-length, full-height, 32-bit PCI 2.2 (5v) • 16.7" W X 16.7"D X 5.5"H • 425mm W X 425mm D X 140mm H • 24 to 26.5 lb (10.9 to 12.0 kg) • Stealth black color • Bay 1 and 2 in cage flips up (latched and pivoting) • Bay 3 and 4 in cage flips up (latched and pivoting) • Toolless rails for disk mounting • Toolless cover removal • Toolless AGP and PCI slots
L2 cache Implementation	256KB or 512KB std and max / ECC / full speed Processor and L2 cache in FC-PGA2 in mPGA478B socket		
Memory - std/max Memory - sockets Memory - type	256MB std / 1.5GB max Three 168-pin gold plated DIMM sockets / one socket used 133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2) / supports optional ECC		
Graphics controller (one of following)	<ul style="list-style-type: none"> • NVIDIA Vanta (2D and 3D) / AGP 4X adapter / TNT2 Vanta GPU / 16MB std and max 125MHz SDRAM / 250MHz RAMDAC / one analog DB-15 connector • NVIDIA GeForce2 MX (advanced 3D) / AGP 4X adapter / GeForce2 MX GPU / 32MB std and max 166MHz SDRAM / 350MHz RAMDAC / one analog DB-15 connector • ATI® Radeon 7000 (advanced 3D) / AGP 4X adapter / Radeon VE (RV100) GPU / 64MB std and max 155MHz SDRAM / 300MHz RAMDAC / one analog DB-15 connector 		
Disk Disk controller Diskette drive CD-ROM DVD-ROM Cables	ATA-100, SMART ³ III; 20GB: value, 40GB: 7200 rpm Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH2) 3.5" 1.44MB diskette drive Some models: 48X-20X ⁴ CD-ROM / bootable Some models: 16X/48X Max ⁴ DVD (ATAPI), bootable Two EIDE 80-conductor cables (one 2-drop cable to CD or DVD, one 1-drop cable to disk)		
Chipset	Intel 845 chipset / 82845 Memory Controller Hub (MCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / National [®] 87360 Super I/O for diskette, parallel, serial, keyboard, mouse		
Ports	Front: two USB (Version 1.1) Back: two 9-pin serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor		
Audio	Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)		
Audio connectors Speakers Ethernet	Back: microphone jack, line-in, line-out One internal speaker for business audio 10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN [®] / Intel Pro/100VE Desktop Connection		
Security chip	Some models: IBM Embedded Security Subsystem[®] / daughtercard attached to motherboard which enables 256-bit encryption, Asset EEPROM, RFID antenna ¹³ , and C2 tamper switch		
Keyboard / mouse Cooling fans Power supply	106-key (rubber dome) keyboard / IBM 2-button mouse Three variable speed fans (power supply, fansink, rear fan) 185 watts with variable speed fan / universal / manual switch		

SYSTEMS MANAGEMENT

- PC 2001-compliant
- Advanced Power Management 1.2
- Advanced Configuration and Power Interface (ACPI) 1.0b
- System Management BIOS
- DMI 2.0-compliant
- Wired for Management 2.0-compliant

SECURITY

- U bolt anchoring feature (U-bolt assembly is optional)
- Power-on password
- Administrator password
- Boot sequence control
- Diskette boot inhibit
- Boot without keyboard or mouse
- Diskette and disk I/O control
- Serial/parallel I/O control
- Some models: Security chip providing encryption, Asset ID™ (RFID)¹³, and C2 tamper switch

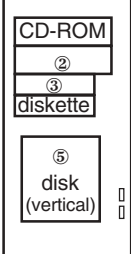
LIMITED WARRANTY¹

- ⇒ **3 year parts and labor**
- ⇒ **International Warranty Service⁹**
- ⇒ **On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time**
- ⇒ **3 year on site warranty service upgrade options¹:**
 - **4 hour response, Mon-Fri 8-5** (ServicePac[®] part number 41L2734)
 - **4 hour response, 7 day x 24 hr** (ServicePac part number 41L2740)
- ⇒ **Post warranty maintenance services available**
- ⇒ **24x7¹⁴ toll-free support for warranty issues during the warranty period¹**

Preload with Windows 2000 ⁵	Options	
Microsoft® Windows® 2000 Professional	64MB SDRAM 133MHz CL2 NP DIMM	10K0055
Lotus® SmartSuite® license ⁶	128MB SDRAM 133MHz CL2 NP DIMM	10K0057
Lotus Notes® Client 5.0 license ⁶	256MB SDRAM 133MHz CL2 NP DIMM	10K0059
- Disk-to-Disk Recovery (in Service Partition)	512MB SDRAM 133MHz CL2 NP DIMM	10K0061
◇ Software Selections CD-ROM	40GB IDE Disk ATA-100 (5400 rpm)	22P7156
	60GB IDE Disk ATA-100 (7200 rpm)	09N4207
	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
	40X/12X/40X Max ⁴ CD-RW internal (blk)	22P6976
	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	10K3790
	IBM DVD-RAM/DVD-R Drive (black)	22P6959
	Zip Drive 250MB (white/black)	00N8078
	IBM E94 19" (18.0" viewable) Monitor (blk)	633440N
	IBM T540 15" Flat Panel Monitor (black)	9511AG4
	IBM T560 15" Flat Panel Monitor (black)	6656HG2
	IBM E74M 17" (15.9" view) Monitor (blk)	651767N
	IBM 675 Uninterruptable Power Supply	33L3478
	IBM Optical 3-Button ScrollPoint [®] Mouse	33L3250
	Other options at ibm.com/pc/us/accessories	
W=Workhorse models G=Global models		

See footnotes for important warranty information
US models announced January 22, 2002
US models withdrawn effective October or December 2002

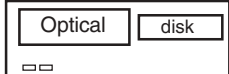
Name	Type-model	Color	Slot x bay	Processor	GHz	L2 cache	Mem	Disk	RPM	CD-ROM	Graphics	Chipset	Preload	Available date
M41	6794-11U	Black	4x5	Pentium® 4	1.6GHz	256KB	128MB	40GB ²	7200	CD-ROM	NVIDIA™ 16MB	845	Windows® 2000 ⁵	Oct 2001
M41	6794-21U	Black	4x5	Pentium 4	1.8GHz	256KB	128MB	40GB	7200	CD-ROM	NVIDIA 16MB	845	Windows 2000	Oct 2001
M41	6794-31U	Black	4x5	Pentium 4	2.0GHz	256KB	256MB	40GB	7200	CD-ROM	NVIDIA 16MB	845	Windows 2000	Oct 2001
M41	6794-26U	Black	4x5	Pentium 4	1.8GHz	256KB	128MB	40GB	7200	CD-ROM	NVIDIA 16MB	845	Windows XP Pro	Nov 2001
M41	6794-34U	Black	4x5	Pentium 4	2.0GHz	256KB	256MB	40GB	7200	CD-ROM	GeForce2 32MB	845	Windows XP Pro	Nov 2001
M41	6794-42U	Black	4x5	Pentium 4	2.2GHz	512KB	256MB	40GB	7200	CD-ROM	NVIDIA 16MB	845	Windows 2000	Feb 2002
M41	6794-43U	Black	4x5	Pentium 4	2.2GHz	512KB	256MB	40GB	7200	CD-ROM	NVIDIA 16MB	845	Windows XP Pro	Feb 2002
M41	6794-37U	Black	4x5	Pentium 4	2.0GHz	512KB	256MB	40GB	7200	CD-ROM	NVIDIA 16MB	845	Windows 2000	Feb 2002
M41	6794-3AU	Black	4x5	Pentium 4	2.0GHz	512KB	256MB	40GB	7200	CD-ROM	GeForce2 32MB	845	Windows XP Pro	Feb 2002

Positioning Processor	<i>Maximum performance and stability</i> Intel® Pentium 4 at 1.6, 1.8, 2.0, or 2.2GHz with 400MHz frontside bus	Micro Tower <ul style="list-style-type: none"> 7.5" W X 15.7" D X 16.3" H 190mm W X 399mm D X 415mm H 22.5 to 29.5 lb (10.2 to 13.4 kg) Stealth black color Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots 	
L2 cache Implementation	256KB or 512KB std and max / ECC / full speed Processor and L2 cache in FC-PGA2 in mPGA478B socket		
Memory - std/max	128MB or 256MB std / 1.5GB max	Bay ① 5.25", HH 1.6", access, std CD-ROM Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, std disk Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v) - used Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v)	
Memory - sockets	Three 168-pin gold-plated DIMM sockets / one socket used		
Memory - type	133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2) / supports optional ECC		
Graphics controller (one of following)	<ul style="list-style-type: none"> NVIDIA Vanta (2D and 3D) / AGP 4X adapter / TNT2 Vanta GPU / 16MB std and max 125MHz SDRAM / 250MHz RAMDAC / one analog DB-15 connector NVIDIA GeForce2 MX (advanced 3D) / AGP 4X adapter / GeForce2 MX GPU / 32MB std and max 166MHz SDRAM / 350MHz RAMDAC / one analog DB-15 connector 		
Disk	ATA-100, 7200 rpm, SMART ³ III	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b System Management BIOS DMI 2.0-compliant Wired for Management 2.0-compliant 	
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH2)		
Diskette drive	3.5" 1.44MB diskette drive		
CD-ROM	48X-20X ⁴ CD-ROM / bootable		
DVD-ROM	Optional		
Cables	Two EIDE 80-conductor cables (one 2-drop cable to CD, one 1-drop cable to disk)		
Chipset	Intel 845 chipset / 82845 Memory Controller Hub (MCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / National® 87360 Super I/O for diskette, parallel, serial, keyboard, mouse	SECURITY <ul style="list-style-type: none"> U bolt anchoring feature (U-bolt assembly is optional) Padlock support (user supplied lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control 	
Ports	<i>Front:</i> two USB (Version 1.1) <i>Back:</i> two 9-pin serial, parallel, two USB (Ver 1.1), keyboard, mouse, ethernet, monitor		
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)		
Audio connectors	<i>Back:</i> microphone jack, line-in, line-out		
Speakers	One internal speaker for business audio		
Ethernet	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN® / Intel Pro/100VE Desktop Connection		
Security chip	None		
Keyboard / mouse	106-key (rubber dome) keyboard / IBM 2-button mouse	LIMITED WARRANTY¹ ⇨ 3 year parts and labor ⇨ International Warranty Service⁹ ⇨ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time ⇨ 3 year on site warranty service upgrade options⁷: <ul style="list-style-type: none"> 4 hour response, Mon-Fri 8-5 (ServicePac® part number 41L2734) 4 hour response, 7 day x 24 hr (ServicePac part number 41L2740) ⇨ Post warranty maintenance services available ⇨ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹	
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)		
Power supply	185 watts with variable speed fan / universal / manual switch		

Preload with Windows 2000 ⁵	Options
Microsoft® Windows® 2000 Professional	64MB SDRAM 133MHz CL2 NP DIMM 10K0055
Lotus® SmartSuite® license ⁶	128MB SDRAM 133MHz CL2 NP DIMM 10K0057
Lotus Notes® Client 5.0 license ⁶	256MB SDRAM 133MHz CL2 NP DIMM 10K0059
- Disk-to-Disk Recovery (in Service Partition)	512MB SDRAM 133MHz CL2 NP DIMM 10K0061
⇨ Software Selections CD-ROM	2-Piece Speakers (black) 33L3440
	40GB IDE Disk ATA-100 (5400 rpm) 22P7156
	60GB IDE Disk ATA-100 (7200 rpm) 09N4207
	IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950
	40X/12X/40X Max ⁴ CD-RW internal (blk) 22P6976
	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 10K3790
	IBM DVD-RAM/DVD-R Drive (black) 22P6959
	Zip Drive 250MB (white/black) 00N8078
	IBM E94 19" (18.0" viewable) Monitor (blk) 633440N
	IBM T540 15" Flat Panel Monitor (black) 9511AG4
	IBM T560 15" Flat Panel Monitor (black) 6656HG2
	IBM E74M 17" (15.9" view) Monitor (blk) 651767N
	IBM Wireless keyboard and mouse (blk) 22P5170
	IBM 675 Uninterruptable Power Supply 33L3478
	IBM Optical 3-Button ScrollPoint® Mouse 33L3250
	Other options at ibm.com/pc/us/accessories

See footnotes for important warranty information
 US models announced January 22, 2002; previous models on Sept 18 and Nov 27, 2001
 US models withdrawn effective March, July, October, or December 2002

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ^g	EIDE disk	Optical	Graphics	Security chip	Ethernet	Preload	Workhorse or Global	Available date
M42	8301-22U	0x2	Pentium® 4	2.0	512KB	400	128MB	40GB ²	CD-ROM	Extreme™ GMCH	No	10/100	XP Pro ⁵	No	Jun 2002
M42	8301-32U	0x2	Pentium 4	2.26	512KB	533	128MB	40GB	CD-ROM	Extreme GMCH	No	10/100	XP Pro	No	Jun 2002
M42	8301-51U	0x2	Pentium 4	1.8	512KB	400	256MB	40GB	CD-ROM	Extreme GMCH	No	10/100	XP Pro	No	Sep 2002
M42	8301-52U	0x2	Pentium 4	1.8	512KB	400	128MB	40GB	CD-ROM	Extreme GMCH	No	10/100	XP Pro	No	Sep 2002
M42	8301-53U	0x2	Pentium 4	1.8	512KB	400	256MB	40GB	None	Extreme GMCH	No	10/100	2000	No	Sep 2002
M42	8301-41U	0x2	Pentium 4	2.4	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	No	10/100	XP Pro	No	Sep 2002
M42	8301-61U	0x2	Pentium 4	2.53	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	No	10/100	XP Pro	No	Sep 2002
M42	8301-81U	0x2	Pentium 4	2.66	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	No	10/100	XP Pro	No	Dec 2002
M42	8301-E1U	0x2	Pentium 4	3.06	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	No	10/100	XP Pro	No	Dec 2002

Positioning Processor	<i>Stability and manageability for the enterprise</i> Intel® Pentium 4 at 1.8, 2.0, 2.26, 2.4, 2.53, 2.66 or 3.06GHz with 400 or 533MHz frontside bus (FSB) / no Hyper-Threading technology support	Mini Desktop  Bay ① 5.25", HH 1.6", access, std optical Bay ② 3.5", SL 1", access, std disk
L2 cache Implementation	512KB std and max / ECC / full speed Processor and L2 cache in FC-PGA2 in mPGA478B socket	
Memory - std/max ^g Memory - sockets Memory - type	128MB or 256MB std / 2GB* max Two 184-pin gold plated DIMM sockets / one socket used PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)	Slots: No usable slots <ul style="list-style-type: none">Stealth black color12.2" W X 13.5"D X 4.3"H310mm W X 343mm D X 110mm H18.0 to 20.0 lb (8.1 to 9.1 kg)Hard disk slides out from front without toolsToolless rails for disk mountingSupport for 100 lb monitor on topSystem stand for vertical orientation
Graphics controller	Integrated Intel Extreme™ Graphics / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector	SYSTEMS MANAGEMENT <ul style="list-style-type: none">PC 2001-compliantAdvanced Power Management 1.2Advanced Configuration and Power Interface (ACPI) 1.0bSMBIOS 2.3.1-compliantDMI 2.0-compliant
Disk Disk controller Diskette drive CD-ROM Cables	40GB, ATA-100, 7200 rpm, rubber vibration dampening mounts Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4) None 48X-20X ⁴ CD-ROM / bootable Two EIDE 80-conductor cables (one 1-drop cable to optical, one 1-drop cable to disk)	
Chipset	Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse	SECURITY <ul style="list-style-type: none">U bolt anchoring feature (U-bolt is optional; supports optional padlock)Security slot (for attachment of optional cable lock)Power-on passwordAdministrator passwordBoot sequence controlDiskette boot inhibitBoot without keyboard or mouseDiskette and disk I/O controlSerial/parallel I/O control8301: keylock (right side) locks cover and disk (so disk can not be removed from front)
Ports	<i>Front:</i> two USB (Version 2.0) <i>Back:</i> four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)	
Audio	Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec	
Audio connectors	<i>Back:</i> microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]	
Speaker	One internal speaker for business audio	
Ethernet	10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN [®]	
Security chip	None	
Keyboard	104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector)	
Mouse	IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector)	
Cooling fans	Two variable speed fans (power supply and fansink)	
Power supply	125 watts with variable speed fan / universal / manual switch	

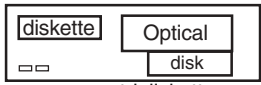
Preload with Windows 2000⁵ Microsoft® Windows® 2000 Professional - Disk-to-Disk Recovery (in Service Partition)	Options 128MB PC2100 CL2.5 NP DDR UDIMM* 33L3302 256MB PC2100 CL2.5 NP DDR UDIMM* 33L3304 512MB PC2100 CL2.5 NP DDR UDIMM* 33L3306 1GB PC2100 NP CL2.5 DDR UDIMM* 33L3308 80GB IDE Disk ATA-100 (7200 rpm) 09N4248 IBM 48X-20X ⁴ CD-ROM internal (black) 10K3782 IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950 48X/32X/48X Max ⁴ CD-RW internal (blk) 22P7042 32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 22P6973 IBM DVD-RAM/DVD-R Drive (black) 22P6959 IBM Multi-Burner Plus internal (black) 22P7036 IBM Portable USB 2.0 20GB Hard Disk 09N4211 Iomega® Zip 750MB USB 2.0 Drive 22P7099 IBM 128MB USB 2.0 Memory Key 22P8998 IBM G78 17" (16.0" viewable) Monitor (blk) 6627KAN IBM T541 15" Flat Panel Monitor (black) 9512AB1 IBM T560 15" Flat Panel Monitor (black) 6656HG2 IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N IBM Wireless keyboard and mouse (black) 22P5170 IBM 675 Uninterruptible Power Supply 33L3478 Kensington® MicroSaver® Desktop Lock 06P3839 Other options at ibm.com/pc/us/accessories	LIMITED WARRANTY¹ ↔ 3 year parts and labor ↔ International Warranty Service⁹ ↔ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time ↔ On site service upgrade options (in eligible locations):⁷ • 3 year IOR 9x5, 4 hour response (ServicePac® part number 41L2734) • 3 year IOR 24x7, 4 hour response (ServicePac part number 41L2740) • 4 year IOR 9x5, Next Business Day (ServicePac part number 69P9161) • 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9162) • 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9163) ↔ Post warranty maintenance services available ↔ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹
Preload with Windows XP Professional⁵ Microsoft® Windows® XP Professional - Disk-to-Disk Recovery (in Service Partition)		
Preloaded (all) • Access IBM • Access Support Connected Client • Norton AntiVirus (OEM Version) • PC-Doctor™		
Downloadable (all) • IBM Rapid Restore™ PC • Remote Deployment Manager • Software Delivery Assistant • IBM Director Agent • Software Migration Assistant • Update Connector™.15		
License - CD not included (all) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client		

See footnotes for important warranty information
US models announced June 4, August 27, or November 19, 2002
US models withdrawn effective May 2003, October 2003, or December 2003
* Memory upgrades supported only by special bid (not customer upgradable)

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁸	EIDE disk	Optical	Graphics	Security chip	Ethernet	Preload	Available date
M42	8303-21U	4x3	Pentium® 4	2.0	512KB	400	256MB	40GB ²	CD-ROM	Extreme™ GMCH		10/100	XP Pro ⁵	Jun 2002
M42	8303-22U	4x3	Pentium 4	2.0	512KB	400	128MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	Jun 2002
M42	8303-24U	4x3	Pentium 4	2.0	512KB	400	256MB	40GB	CD-ROM	Radeon 7000 64MB		10/100	XP Pro	Jun 2002
M42	8303-27U	4x3	Pentium 4	2.0	512KB	400	128MB	40GB	CD-ROM	Extreme GMCH		10/100	2000	Jun 2002
M42	8303-31U	4x3	Pentium 4	2.26	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	Jun 2002
M42	8303-33U	4x3	Pentium 4	2.26	512KB	533	256MB	40GB	CD-ROM	Radeon 7000 64MB		10/100	XP Pro	Jun 2002
M42	8303-36U	4x3	Pentium 4	2.26	512KB	533	128MB	40GB	CD-ROM	Extreme GMCH		10/100	2000	Jun 2002
M42	8303-41U	4x3	Pentium 4	2.4	512KB	533	256MB	40GB	DVD-ROM	Extreme GMCH		Gigabit	XP Pro	Jun 2002
M42	8303-42U	4x3	Pentium 4	2.4	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	Jun 2002
M42	8303-43U	4x3	Pentium 4	2.4	512KB	533	256MB	80GB	DVD-ROM	Radeon 7000 64MB		Gigabit	XP Pro	Jun 2002
M42	8303-26U	4x3	Pentium 4	2.0	512KB	400	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	Jun 2002
M42	8303-35U	4x3	Pentium 4	2.26	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	Jun 2002
M42	8303-44U	4x3	Pentium 4	2.4	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	Jun 2002
Positioning	<i>Stability and manageability for the enterprise</i>													
Processor	Intel® Pentium 4 at 2.0, 2.26, 2.4GHz with 400 or 533MHz FSB										Small Desktop			
L2 cache	512KB std and max / ECC / full speed													
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket										Bay ① 3.5", SL 1", access, std diskette Bay ② 5.25", HH 1.6", access, std optical Bay ③ 3.5", SL 1", no access, std disk Slot 1: Low Profile, 32-bit AGP 4X (1.5v) - used in some Slot 2: Low Profile, 32-bit PCI 2.2 (5v) Slot 3: Low Profile, 32-bit PCI 2.2 (5v) Slot 4: Low Profile, 32-bit PCI 2.2 (5v)			
Memory - std/max ⁸	128MB or 256MB std / 1GB max										<ul style="list-style-type: none"> Stealth black color 14.2" W X 16.2" D X 4.1" H 360mm W X 412mm D X 104mm H 20.0 to 22.0 lb (9.1 to 10.0 kg) Bays 1 and 2/3 flip up (latched and pivoting) Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots Support for 100 lb monitor on top System stand for vertical orientation 			
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used													
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)													
Graphics controller (one of following)	<ul style="list-style-type: none"> Integrated Intel Extreme™ Graphics / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector ATI Radeon 7000 / AGP 4X adapter / Radeon GPU / 64MB std and max 332MHz DDR-SDRAM / 300MHz RAMDAC / one analog DB-15 connector 													
Disk	40 or 80GB, ATA-100, 7200 rpm, rubber vibration dampening mounts													
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)													
Diskette drive	3.5" 1.44MB diskette drive													
CD-ROM	<i>Some:</i> 48X-20X ⁴ CD-ROM / bootable													
DVD-ROM	<i>Some:</i> 16X-48X Max ⁴ DVD-ROM / bootable													
Cables	Two EIDE 80-conductor cables (one 1-drop cable to optical, one 1-drop cable to disk)													
Chipset	Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse										SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b System Management BIOS DMI 2.0-compliant Security chip models: Asset ID™¹⁹ (system-specific info in chip) 			
Ports	<i>Front:</i> two USB (Version 2.0) <i>Back:</i> four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)													
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec													
Audio connectors	<i>Back:</i> microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]													
Speaker	One internal speaker for business audio													
Ethernet	<i>Some:</i> 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN® <i>Some:</i> 10/100/1000 gigabit ethernet on planar / Intel 82540EM PHY (physical layer) and MAC / Intel Pro/1000MT Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN										SECURITY <ul style="list-style-type: none"> U bolt anchoring feature (U-bolt is optional; supports optional padlock) Security slot (for attachment of optional cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control Security chip models: security chip providing C2 tamper switch, Asset ID¹⁹, keylock on chassis, and other features 			
Security chip	<i>Some:</i> IBM Embedded Security Subsystem 2.0 ¹⁸ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security ¹⁶ / TCPA-compliant													
Keyboard / mouse	104-key IBM Preferred Pro Full-size keyboard / IBM Std 2-Button PS/2 Mouse													
Cooling fans	Two or three variable speed fans (power supply, fansink, some have third fan)													
Power supply	160 watts with variable speed fan / universal / manual switch													
Preload with Windows 2000⁵	Options													
Microsoft® Windows® 2000 Professional	128MB PC2100 CL2.5 NP DDR UDIMM										33L3302			
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM										33L3304			
Preload with Windows XP Professional⁵	512MB PC2100 CL2.5 NP DDR UDIMM										33L3306			
Microsoft Windows XP Professional	80GB IDE Disk ATA-100 (7200 rpm)										09N4248			
- Disk-to-Disk Recovery (in Service Partition)	IBM 16X Max ⁴ DVD-ROM Drive (black)										22P6950			
	48X/32X/48X Max ⁴ CD-RW internal (blk)										22P7042			
Preloaded (all)	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM													
• Access IBM	Combo drive (black)										10K3790			
• Access Support Connected Client	IBM DVD-RAM/DVD-R Drive (black)										22P6959			
• Norton AntiVirus (OEM Version)	IBM Portable USB 2.0 20GB Hard Disk										09N4211			
• InterVideo WinDVD (DVD models)	IBM 128MB USB 2.0 Memory Key										22P8998			
Downloadable (all)	IBM G78 17" (16.0" viewable) Monitor (blk)										66274AN			
• IBM Rapid Restore™ PC	IBM T541 15" Flat Panel Monitor (black)										9512AB1			
• IBM Data Transfer	IBM T560 15" Flat Panel Monitor (black)										6656HG2			
• IBM Director Agent	IBM P97 17" (18.0" viewable) Monitor (blk)										6651U3N			
• IBM Client Security Sft (security chip models)	IBM Wireless keyboard and mouse (blk)										22P5170			
License - CD not included (all)	IBM 675 Uninterruptable Power Supply										33L3478			
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	IBM High Rate Wireless LAN PCI Adapter										22P6901			
	Kensington® MicroSaver® Desktop Lock										06P3839			
	Other options at ibm.com/pc/us/accessories													
										LIMITED WARRANTY¹ <ul style="list-style-type: none"> ↔ 3 year parts and labor ↔ International Warranty Service⁹ ↔ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time ↔ 3 year on site warranty service upgrade options⁷: <ul style="list-style-type: none"> • 4 hour response, Mon-Fri 8-5 (ServicePac® part number 41L2734) • 4 hour response, 7 day x 24 hr (ServicePac part number 41L2740) ↔ Post warranty maintenance services available ↔ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ 				

See footnotes for important warranty information
US models announced June 4, 2002
US models withdrawn effective May, October, or December 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁶	EIDE disk	Optical	Graphics	Security chip	Ethernet	Preload	Workhorse or Global	Available date
M42	8303-52U	4x3	Pentium® 4	1.8	512KB	400	256MB	40GB ²	CD-ROM	Extreme™ GMCH		10/100	XP Pro ⁵		Sep 2002
M42	8303-53U	4x3	Pentium 4	1.8	512KB	400	128MB	40GB	CD-ROM	Extreme GMCH		10/100	2000		Sep 2002
M42	8303-61U	4x3	Pentium 4	2.53	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	W G	Sep 2002
M42	8303-62U	4x3	Pentium 4	2.53	512KB	533	256MB	40GB	DVD-ROM	Extreme GMCH		10/100	XP Pro	W G	Sep 2002
M42	8303-81U	4x3	Pentium 4	2.66	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	W G	Sep 2002
M42	8303-82U	4x3	Pentium 4	2.66	512KB	533	256MB	40GB	DVD-ROM	Extreme GMCH		10/100	XP Pro	W G	Sep 2002
M42	8303-54U	4x3	Pentium 4	1.8	512KB	400	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro		Sep 2002
M42	8303-63U	4x3	Pentium 4	2.53	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro		Sep 2002
M42	8303-83U	4x3	Pentium 4	2.66	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro		Sep 2002

Positioning Processor	<i>Stability and manageability for the enterprise</i> Intel® Pentium 4 at 1.8, 2.53, 2.66GHz with 400 or 533MHz frontside bus (FSB)	Small Desktop  Bay ① 3.5", SL 1", access, std diskette Bay ② 5.25", HH 1.6", access, std optical Bay ③ 3.5", SL 1", no access, std disk Slot 1: Low Profile, 32-bit AGP 4X (1.5v) Slot 2: Low Profile, 32-bit PCI 2.2 (5v) Slot 3: Low Profile, 32-bit PCI 2.2 (5v) Slot 4: Low Profile, 32-bit PCI 2.2 (5v)
L2 cache Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket	
Memory - std/max ⁶	128MB or 256MB std / 1GB max	<ul style="list-style-type: none"> Stealth black color 14.2" W X 16.2"D X 4.1"H 360mm W X 412mm D X 104mm H 18.0 to 20.0 lb (8.1 to 9.1 kg) Bays 1 and 2/3 flip up (latched and pivoting) Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots Support for 100 lb monitor on top System stand for vertical orientation
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used	
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)	
Graphics controller	Integrated Intel Extreme™ Graphics / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector	
Disk	40GB, ATA-100, 7200 rpm, rubber vibration dampening mounts	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b SMBIOS 2.3.1-compliant DMI 2.0-compliant <i>Security chip models</i>: Asset ID™.19 (system-specific info in chip)
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)	
Diskette drive	3.5" 1.44MB diskette drive	
CD-ROM	<i>Some</i> : 48X-20X ⁴ CD-ROM / bootable	
DVD-ROM	<i>Some</i> : 16X-48X Max ⁴ DVD-ROM / bootable	
Cables	Two EIDE 80-conductor cables (one 1-drop cable to optical, one 1-drop cable to disk)	SECURITY <ul style="list-style-type: none"> U bolt anchoring feature (U-bolt is optional; supports optional padlock) Security slot (for attachment of optional cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control <i>Security chip models</i>: security chip providing C2 tamper switch, Asset ID¹⁹, keylock on chassis, and other features
Chipset	Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse	
Ports	<i>Front</i> : two USB (Version 2.0) <i>Back</i> : four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)	
Audio	Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec	
Audio connectors	<i>Back</i> : microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]	
Speaker	One internal speaker for business audio	LIMITED WARRANTY¹ <ul style="list-style-type: none"> 3 year parts and labor International Warranty Service⁹ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time On site service upgrade options (in eligible locations):⁷ <ul style="list-style-type: none"> 3 year IOR 9x5, 4 hour response (ServicePac[®] part number 41L2734) 3 year IOR 24x7, 4 hour response (ServicePac part number 41L2740) 4 year IOR 9x5, Next Business Day (ServicePac part number 69P9161) 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9162) 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9163) Post warranty maintenance services available 24x7¹⁴ toll-free support for warranty issues during the warranty period¹
Ethernet	<i>Some</i> : 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN [®] <i>Some</i> : 10/100/1000 gigabit ethernet on planar / Intel 82540EM PHY (physical layer) and MAC / Intel Pro/1000MT Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN	
Security chip	<i>Some</i> : IBM Embedded Security Subsystem 2.0¹⁸ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security ¹⁶ / TCPA-compliant	
Keyboard / mouse	104-key IBM Preferred Pro Full-size keyboard / IBM Std 2-Button PS/2 Mouse	OPTIONS 128MB PC2100 CL2.5 NP DDR UDIMM 33L3302 256MB PC2100 CL2.5 NP DDR UDIMM 33L3304 512MB PC2100 CL2.5 NP DDR UDIMM 33L3306 80GB IDE Disk ATA-100 (7200 rpm) 09N4248 IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950 48X/32X/48X Max ⁴ CD-RW internal (blk) 22P7042 32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 22P6973 IBM DVD-RAM/DVD-R Drive (black) 22P6959 IBM Portable USB 2.0 20GB Hard Disk 09N4211 IBM 128MB USB 2.0 Memory Key 22P8998 IBM G78 17" (16.0" viewable) Monitor (blk) 6627KAN IBM T541H 15" Flat Panel Monitor (black) 9512HB0 IBM T560 15" Flat Panel Monitor (black) 6656HG2 IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N IBM Wireless keyboard and mouse (black) 22P5170 IBM 675 Uninterruptible Power Supply 33L3478 IBM High Rate Wireless LAN PCI Adapter 22P6901 Kensington® MicroSaver® Desktop Lock 06P3839 Other options at ibm.com/pc/us/accessories
Cooling fans	Two or three variable speed fans (power supply, fansink, some have third fan)	
Power supply	160 watts with variable speed fan / universal / manual switch	

Preload with Windows 2000 ⁵	Microsoft® Windows® 2000 Professional - Disk-to-Disk Recovery (in Service Partition)
Preload with Windows XP Professional ⁵	Microsoft Windows XP Professional - Disk-to-Disk Recovery (in Service Partition)
Preloaded (all)	<ul style="list-style-type: none"> Access IBM Access Support Connected Client Norton AntiVirus (OEM Version) InterVideo WinDVD (DVD models)
Downloadable (all)	<ul style="list-style-type: none"> IBM Rapid Restore™ PC Remote Deployment Manager Software Delivery Assistant Software Migration Assistant IBM Director Agent IBM Client Security Sft (security chip models)
License - CD not included (all)	<ul style="list-style-type: none"> Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client

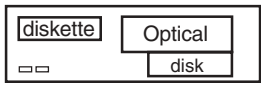
Keyboard / mouse	104-key IBM Preferred Pro Full-size keyboard / IBM Std 2-Button PS/2 Mouse
Cooling fans	Two or three variable speed fans (power supply, fansink, some have third fan)
Power supply	160 watts with variable speed fan / universal / manual switch

See footnotes for important warranty information

US models announced August 27, 2002

US models withdrawn effective May 2003, October 2003, December 2003, or February 2004

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁶	EIDE disk	Optical	Graphics	Security chip	Ethernet Preload	Workhorse or Global	Available date
M42	8303-D1U	4x3	Pentium® 4	2.8	512KB	533	256MB	40GB ²	CD-ROM	Extreme™ GMCH		10/100 XP Pro ⁵	No	Dec 2002
M42	8303-D2U	4x3	Pentium 4	2.8	512KB	533	256MB	40GB	DVD-ROM	Extreme GMCH		Gigabit XP Pro	No	Dec 2002
M42	8303-E1U	4x3	Pentium 4	3.06	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100 XP Pro	No	Dec 2002
M42	8303-E2U	4x3	Pentium 4	3.06	512KB	533	256MB	40GB	DVD-ROM	Extreme GMCH		Gigabit XP Pro	No	Dec 2002
M42	8303-D3U	4x3	Pentium 4	2.8	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100 XP Pro	No	Dec 2002
M42	8303-46U	4x3	Pentium 4	2.4	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100 2000	No	Mar 2003

Positioning Processor	<i>Stability and manageability for the enterprise</i> Intel® Pentium 4 at 2.4, 2.8 or 3.06GHz with 533MHz frontside bus (FSB) / no Hyper-Threading technology support	Small Desktop  Bay ① 3.5", SL 1", access, std diskette Bay ② 5.25", HH 1.6", access, std optical Bay ③ 3.5", SL 1", no access, std disk Slot 1: Low Profile, 32-bit AGP 4X (1.5v) Slot 2: Low Profile, 32-bit PCI 2.2 (5v) Slot 3: Low Profile, 32-bit PCI 2.2 (5v) Slot 4: Low Profile, 32-bit PCI 2.2 (5v) • Stealth black color • 14.2" W X 16.2" D X 4.1" H • 360mm W X 412mm D X 104mm H • 18.0 to 20.0 lb (8.1 to 9.1 kg) • Bays 1 and 2/3 flip up (latched and pivoting) • Toolless rails for disk mounting • Toolless cover removal • Toolless AGP and PCI slots • Support for 100 lb monitor on top • System stand for vertical orientation
L2 cache Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket	
Memory - std/max ⁸	256MB std / 2GB max	
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used	
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)	
Graphics controller	Integrated Intel Extreme™ Graphics / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector	
Disk	40GB , ATA-100, 7200 rpm, rubber vibration dampening mounts	
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)	
Diskette drive	3.5" 1.44MB diskette drive	
CD-ROM	<i>Some:</i> 48X-20X ⁴ CD-ROM / bootable	
DVD-ROM	<i>Some:</i> 16X-48X Max ⁴ DVD-ROM / bootable	
Cables	Two EIDE 80-conductor cables (one 1-drop cable to optical, one 1-drop cable to disk)	
Chipset	Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse	SYSTEMS MANAGEMENT • PC 2001-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0b • SMBIOS 2.3.1-compliant • DMI 2.0-compliant • <i>Security chip models:</i> Asset ID™ ¹⁹ (system-specific info in chip) SECURITY • U bolt anchoring feature (U-bolt is optional; supports optional padlock) • Security slot (for attachment of optional cable lock) • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control • <i>Security chip models:</i> security chip providing C2 tamper switch, Asset ID ¹⁹ , keylock on chassis, and other features LIMITED WARRANTY¹ ⇨ 3 year parts and labor ⇨ International Warranty Service⁹ ⇨ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time ⇨ On site service upgrade options (in eligible locations):⁷ • 3 year IOR 9x5, 4 hour response (ServicePac® part number 41L2734) • 3 year IOR 24x7, 4 hour response (ServicePac part number 41L2740) • 4 year IOR 9x5, Next Business Day (ServicePac part number 69P9161) • 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9162) • 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9163) ⇨ Post warranty maintenance services available ⇨ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹
Ports	<i>Front:</i> two USB (Version 2.0) <i>Back:</i> four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)	
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec	
Audio connectors	<i>Back:</i> microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]	
Speaker	One internal speaker for business audio	
Ethernet	<i>Some:</i> 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100 Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN® <i>Some:</i> 10/100/1000 gigabit ethernet on planar / Intel 82540EM PHY (physical layer) and MAC / Intel Pro/1000MT Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN	
Security chip	<i>Some:</i> IBM Embedded Security Subsystem 2.0¹⁸ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security ¹⁶ / TCPA-compliant	
Keyboard	104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector)	
Mouse	IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector)	
Cooling fans	Two or three variable speed fans (power supply, fansink, some have third fan)	
Power supply	160 watts with variable speed fan / universal / manual switch	
Preload with Windows XP Professional⁵	Options	
Microsoft® Windows® XP Professional	128MB PC2100 CL2.5 NP DDR UDIMM	33L3302
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM	33L3304
Preload with Windows 2000⁵	512MB PC2100 CL2.5 NP DDR UDIMM	33L3306
Microsoft Windows 2000 Professional	1GB PC2100 NP CL2.5 DDR UDIMM	33L3308
- Disk-to-Disk Recovery (in Service Partition)	80GB IDE Disk ATA-100 (7200 rpm)	09N4248
Preloaded (all)	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
• Access IBM	48X/32X/48X Max ⁴ CD-RW internal (blk)	22P7042
• Access Support	32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM	
• IBM Rapid Restore™ PC	Combo drive (black)	22P6973
• Update Connector™ ¹⁵	IBM DVD-RAM/DVD-R Drive (black)	22P6959
• Norton AntiVirus (OEM Version)	IBM Multi-Burner Plus internal (black)	22P7036
• InterVideo WinDVD (DVD models)	IBM Portable USB 2.0 20GB Hard Disk	09N4211
Downloadable (all)	omega® Zip 750MB USB 2.0 Drive	22P7099
• Software Delivery Assistant	IBM 128MB USB 2.0 Memory Key	22P8998
• Software Migration Assistant	IBM G78 17" (16.0" viewable) Monitor (blk)	6627KAN
• Remote Deployment Manager	IBM T541H 15" Flat Panel Monitor (black)	9512HB0
• IBM Director Agent	IBM T560 15" Flat Panel Monitor (black)	6656HG2
• IBM Client Security Sft (security chip models)	IBM P97 17" (18.0" viewable) Monitor (blk)	6651U3N
License - CD not included (all)	IBM Wireless keyboard and mouse (black)	22P5170
- Lotus® SmartSuite® Millennium and	IBM 675 Uninterruptable Power Supply	33L3478
Lotus Notes® Stand-alone Client	IBM High Rate Wireless LAN PCI Adapter	22P6901
	Kensington® MicroSaver® Desktop Lock	06P3839
	Other options at ibm.com/pc/us/accessories	

See footnotes for important warranty information
US models announced November 19, 2002 or March 4, 2003
US models withdrawn effective October 2003 or March 2004

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory [®]	EIDE disk	Optical	Graphics	Security chip	Ethernet	Preload	Available date
M42	8305-21U	4x4	Pentium® 4	2.0	512KB	400	256MB	40GB ²	CD-ROM	Extreme™ GMCH		10/100	XP Pro ⁵	Jun 2002
M42	8305-22U	4x4	Pentium 4	2.0	512KB	400	128MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	Jun 2002
M42	8305-29U	4x4	Pentium 4	2.0	512KB	400	128MB	40GB	CD-ROM	Extreme GMCH		10/100	2000	Jun 2002
M42	8305-31U	4x4	Pentium 4	2.26	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	Jun 2002
M42	8305-34U	4x4	Pentium 4	2.26	512KB	533	256MB	40GB	CD-ROM	Radeon 7000 64MB		10/100	XP Pro	Jun 2002
M42	8305-39U	4x4	Pentium 4	2.26	512KB	533	128MB	40GB	DVD-ROM	Radeon 7000 64MB		10/100	XP Pro	Jun 2002
M42	8305-41U	4x4	Pentium 4	2.4	512KB	533	256MB	40GB	DVD-ROM	Extreme GMCH		Gigabit	XP Pro	Jun 2002
M42	8305-42U	4x4	Pentium 4	2.4	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	Jun 2002
M42	8305-43U	4x4	Pentium 4	2.4	512KB	533	256MB	40GB	DVD-ROM	Radeon 7000 64MB		10/100	XP Pro	Jun 2002
M42	8305-25U	4x4	Pentium 4	2.0	512KB	400	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	Jun 2002
M42	8305-42U	4x4	Pentium 4	2.26	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	Jun 2002
M42	8305-44U	4x4	Pentium 4	2.4	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	Jun 2002
M42	8305-49U	4x4	Pentium 4	2.4	512KB	533	256MB	40GB	DVD-ROM	Extreme GMCH	Chip	Gigabit	XP Pro	Jun 2002

Positioning	<i>Stability and manageability for the enterprise</i>										Desktop			
Processor	Intel® Pentium 4 at 2.0, 2.26, 2.4GHz with 400 or 533MHz FSB													
L2 cache	512KB std and max / ECC / full speed													
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket										Bay ① 5.25", HH 1.6", access, std CD or DVD Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk			
Memory - std/max [®]	128MB or 256MB std / 1GB max										Slot 1: full-length, full-height, 32-bit AGP 4X (1.5v) - used			
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used										Slot 2: full-length, full-height, 32-bit PCI 2.2 (5v) in			
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)										Slot 3: full-length, full-height, 32-bit PCI 2.2 (5v) some			
Graphics controller (one of following)	<ul style="list-style-type: none"> Integrated Intel Extreme™ Graphics / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVM / 15-pin analog D-sub connector ATI Radeon 7000 / AGP 4X adapter / Radeon GPU / 64MB std and max 332MHz DDR-SDRAM / 300MHz RAMDAC / one analog DB-15 connector 										Slot 4: full-length, full-height, 32-bit PCI 2.2 (5v)			
Disk	40GB, ATA-100, 7200 rpm, rubber vibration dampening mounts										<ul style="list-style-type: none"> • 16.7" W X 16.7"D X 5.5"H • 425mm W X 425mm D X 140mm H • 24 to 26.5 lb (10.9 to 12.0 kg) • Stealth black color • Bay 1 and 2 in cage flips up (latched and pivoting) • Bay 3 and 4 in cage flips up (latched and pivoting) • Toolless rails for disk mounting • Toolless cover removal; toolless AGP and PCI slots 			
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)										SYSTEMS MANAGEMENT <ul style="list-style-type: none"> • PC 2001-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0b • System Management BIOS • DMI 2.0-compliant • Security chip models: Asset ID™.19 (system-specific info in chip) 			
Diskette drive	3.5" 1.44MB diskette drive													
CD-ROM	Some: 48X-20X ⁴ CD-ROM / bootable													
DVD-ROM	Some: 16X-48X Max ⁴ DVD-ROM / bootable													
Cables	Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop cable to disk)										SECURITY <ul style="list-style-type: none"> • U bolt anchoring feature (U-bolt is optional; supports optional padlock) • Security slot (for attachment of optional cable lock) • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control • Security chip models: security chip providing C2 tamper switch, Asset ID¹⁹, keylock on chassis, and other features 			
Chipset	Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse													
Ports	Front: two USB (Version 2.0) Back: four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)													
Audio	Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec													
Audio connectors	Back: microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]										LIMITED WARRANTY¹ <ul style="list-style-type: none"> ⇨ 3 year parts and labor ⇨ International Warranty Service⁹ ⇨ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time ⇨ 3 year on site warranty service upgrade options⁷: <ul style="list-style-type: none"> • 4 hour response, Mon-Fri 8-5 (ServicePac[®] part number 41L2734) • 4 hour response, 7 day x 24 hr (ServicePac part number 41L2740) ⇨ Post warranty maintenance services available ⇨ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ 			
Speaker	One internal speaker for business audio													
Ethernet	Some: 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN [®]													
Security chip	Some: IBM Embedded Security Subsystem 2.0¹⁸ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security ¹⁶ / TCPA-compliant													
Keyboard / mouse	104-key IBM Preferred Pro Full-size keyboard / IBM Std 2-Button PS/2 Mouse										See footnotes for important warranty information US models announced June 4, 2002 US models withdrawn effective May, October, or December 2003			
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)													
Power supply	185 watts with variable speed fan / universal / manual switch													

Preload with Windows 2000 ⁵	Options	
Microsoft® Windows® 2000 Professional	128MB PC2100 CL2.5 NP DDR UDIMM	33L3302
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM	33L3304
Preload with Windows XP Professional⁵	512MB PC2100 CL2.5 NP DDR UDIMM	33L3306
Microsoft Windows XP Professional	80GB IDE Disk ATA-100 (7200 rpm)	09N4248
- Disk-to-Disk Recovery (in Service Partition)	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
Preloaded (all)	48X/32X/48X Max ⁴ CD-RW internal (blk)	22P7042
• Access IBM	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	10K3790
• Access Support Connected Client	IBM DVD-RAM/DVD-R Drive (black)	22P6959
• Norton AntiVirus (OEM Version)	IBM Portable USB 2.0 20GB Hard Disk	09N4211
• InterVideo WinDVD (DVD models)	IBM 128MB USB 2.0 Memory Key	22P8998
Downloadable (all)	IBM G78 17" (16.0" viewable) Monitor (blk)	66274AN
• IBM Rapid Restore™ PC	IBM T541 15" Flat Panel Monitor (black)	9512AB1
• IBM Data Transfer	IBM T560 15" Flat Panel Monitor (black)	6656HG2
• IBM Director Agent	IBM P97 17" (18.0" viewable) Monitor (blk)	6651U3N
• IBM Client Security Sft (security chip models)	IBM Wireless keyboard and mouse (blk)	22P5170
License - CD not included (all)	IBM 675 Uninterruptable Power Supply	33L3478
- Lotus® SmartSuite® Millennium and	IBM High Rate Wireless LAN PCI Adapter	22P6901
Lotus Notes® Stand-alone Client	Kensington® MicroSaver® Desktop Lock	06P3839
	Other options at ibm.com/pc/us/accessories	

See footnotes for important warranty information
US models announced June 4, 2002
US models withdrawn effective May, October, or December 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁸	EIDE disk and rpm	Optical	Graphics	Security chip	Ethernet	Preload or Global	Workhorse	Avail date
M42	8305-A3U	3x4	Celeron®	1.8	128KB	400	256MB	40GB ² 7200	CD-ROM	Extreme™ GMCH		10/100	XP Pro ⁵	No	Mar 2003
M42	8305-A4U	3x4	Celeron	2.0	128KB	400	256MB	40GB 7200	CD-ROM	Extreme GMCH		10/100	XP Pro	No	Mar 2003
M42	8305-A5U	3x4	Celeron	2.1	128KB	400	256MB	40GB 7200	CD-ROM	Extreme GMCH		10/100	XP Pro	No	Mar 2003
M42	8305-4BU	4x4	Pentium® 4	2.4	512KB	533	256MB	40GB 7200	CD-ROM	Extreme GMCH		10/100	2000	No	Mar 2003
M42	8305-4GU	4x4	Pentium 4	2.4	512KB	533	256MB	40GB 7200	CD-RW	Extreme GMCH		10/100	XP Pro	No	Mar 2003
M42	8305-8BU	4x4	Pentium 4	2.66	512KB	533	256MB	40GB 7200	Combo	Radeon 7000 64MB		10/100	XP Pro	No	Mar 2003
M42	8305-E4U	4x4	Pentium 4	3.06	512KB	533	256MB	40GB 7200	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	No	Mar 2003

Positioning Processor *Stability and manageability for the enterprise*
Intel® Celeron 1.8, 2.0, or 2.1GHz with 400MHz frontside bus (FSB) or **Intel Pentium 4 at 2.4B, 2.66, or 3.06GHz** with 533MHz FSB / no Hyper-Threading technology support
 L2 cache *Celeron: 128KB std and max / ECC / full speed*
Pentium 4: 512KB std and max / ECC / full speed
 Implementation Processor and L2 cache in FC-PGA2 in mPGA478B socket



Desktop
 Bay ① 5.25", HH 1.6", access, std optical
 Bay ② 5.25", HH 1.6" access, open
 Bay ③ 3.5", SL 1", access, std diskette
 Bay ④ 3.5", SL 1", no access, std disk
 Slot 1:* full-length, full-height, 32-bit AGP 4X (1.5v)* - used in some
 Slot 2: full-length, full-height, 32-bit PCI 2.2 (5v)
 Slot 3: full-length, full-height, 32-bit PCI 2.2 (5v)
 Slot 4: full-length, full-height, 32-bit PCI 2.2 (5v)
 * Slot not available on Celeron-based models

- Stealth black color
- 16.7" W X 16.3" D X 5.5" H
- 425mm W X 414mm D X 140mm H
- 22 to 25 lb (10.0 to 11.4 kg)
- Bay 1 and 2 in cage flips up (latched and pivoting)
- Bay 3 and 4 in cage flips up (latched and pivoting)
- Toolless rails for disk mounting
- Toolless cover removal; toolless AGP and PCI slots

Memory - std/max⁸ **256MB std / 2GB max**
 Memory - sockets Two 184-pin gold plated DIMM sockets / one socket used
 Memory - type **PC2100 266MHz DDR-SDRAM** / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)

Graphics controller (one of following) • **Integrated Intel Extreme™ Graphics** / Direct AGP / in 845GL/G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector
 • **ATI Radeon 7000** / AGP 4X adapter / Radeon GPU / **64MB** std and max 332MHz DDR-SDRAM / 300MHz RAMDAC / one analog DB-15 connector

Disk **40GB**, ATA-100, 7200 rpm, rubber vibration dampening mounts
 Disk controller Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)
 Diskette drive 3.5" 1.44MB diskette drive
 Optical One of following: 48X-20X⁴ CD-ROM, 48X/24X/48X Max⁴ CD-RW, or 32X/10X/40X/16X Max¹¹ CD-RW/DVD-ROM Combo

Cables Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop to disk)

Chipset *Celeron: Intel 845GL chipset / 82845GL Graphics Memory Controller Hub*
Pentium 4: Intel 845G chipset / 82845G Graphics Memory Controller Hub
 All: 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse

Ports *Front: two USB (Version 2.0)*
Back: four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)

Audio Integrated digital audio / SoundMax™ 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec
 Audio connectors *Back: microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]*

Speaker One internal speaker for business audio
 Ethernet 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100 Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN®

Security chip *Some: IBM Embedded Security Subsystem 2.0¹⁸ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security¹⁶ / TCPA-compliant*

Keyboard / mouse 104-key IBM Preferred Pro Full-size keyboard / IBM Std 2-Button PS/2 Mouse
 Cooling fans Three variable speed fans (power supply, fansink, rear fan)
 Power supply 185 watts with variable speed fan / universal / manual switch

- SYSTEMS MANAGEMENT**
- PC 2001-compliant
 - Advanced Power Management 1.2
 - Advanced Configuration and Power Interface (ACPI) 1.0b
 - SMBIOS 2.3.1-compliant
 - DMI 2.0-compliant
 - Security chip models: Asset ID™.19 (system-specific info in chip)

- SECURITY**
- U bolt anchoring feature (U-bolt is optional; supports optional padlock)
 - Security slot (for attachment of optional cable lock)
 - Power-on password
 - Administrator password
 - Boot sequence control
 - Diskette boot inhibit
 - Boot without keyboard or mouse
 - Diskette and disk I/O control
 - Serial/parallel I/O control
 - Security chip models: security chip providing C2 tamper switch, Asset ID¹⁹, keylock on chassis, and other features

Preload with Windows XP Professional ⁵	Options	
Microsoft® Windows® XP Professional - Disk-to-Disk Recovery (in Service Partition)	128MB PC2100 CL2.5 NP DDR UDIMM	33L3302
	256MB PC2100 CL2.5 NP DDR UDIMM	33L3304
Preload with Windows 2000⁵	512MB PC2100 CL2.5 NP DDR UDIMM	33L3306
Microsoft Windows 2000 Professional - Disk-to-Disk Recovery (in Service Partition)	1GB PC2100 NP CL2.5 DDR UDIMM	33L3308
	80GB IDE Disk ATA-100 (7200 rpm)	09N4248
	120GB IDE Disk ATA-100 (7200 rpm)	09N4249
	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
	48X/24X/48X Max ⁴ CD-RW internal (blk)	22P6997
	32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	22P6973
	IBM DVD-RAM/DVD-R Drive (black)	22P6959
	IBM Multi-Burner internal (black)	22P6970
	IBM Portable USB 2.0 20GB Hard Disk	09N4211
	Imega® Zip 750MB USB 2.0 Drive	22P7099
	IBM 128MB USB 2.0 Memory Key	22P8998
	IBM G78 17" (16.0" viewable) Monitor (blk)	6627KAN
	IBM T541H 15" Flat Panel Monitor (black)	9512HB0
	IBM T560 15" Flat Panel Monitor (black)	6656HG2
	IBM P97 17" (18.0" viewable) Monitor (blk)	6651U3N
	IBM Wireless keyboard and mouse (black)	22P5170
	IBM 675 Uninterruptable Power Supply	33L3478
	IBM High Rate Wireless LAN PCI Adapter	22P6901
	Kensington® MicroSaver® Desktop Lock	06P3839
	Other options at ibm.com/pc/us/accessories	

- LIMITED WARRANTY¹**
- 3 year parts and labor
 - International Warranty Service⁹
 - On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time
 - On site service upgrade options (in eligible locations):⁷
 - 3 year IOR 9x5, 4 hour response (ServicePac® part number 41L2734)
 - 3 year IOR 24x7, 4 hour response (ServicePac part number 41L2740)
 - 4 year IOR 9x5, Next Business Day (ServicePac part number 69P9161)
 - 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9162)
 - 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9163)
 - 24x7¹⁴ toll-free support for warranty issues during the warranty period¹

See footnotes for important warranty information
 US models announced March 4, 2003
 US models withdrawn effective June 2003 or October 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁸	EIDE disk	Optical	Graphics	Security chip	Ethernet	Preload	Workhorse or Global	Available date
M42	8305-51U	4x4	Pentium® 4	1.8	512KB	400	256MB	40GB ²	CD-ROM	Extreme™ GMCH		10/100	XP Pro ⁵		Sep 2002
M42	8305-52U	4x4	Pentium 4	1.8	512KB	400	128MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro		Sep 2002
M42	8305-53U	4x4	Pentium 4	1.8	512KB	400	256MB	40GB	CD-ROM	Extreme GMCH		Gigabit	XP Pro	G	Sep 2002
M42	8305-57U	4x4	Pentium 4	1.8	512KB	400	128MB	40GB	CD-ROM	Extreme GMCH		10/100	2000		Sep 2002
M42	8305-61U	4x4	Pentium 4	2.53	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	W G	Sep 2002
M42	8305-62U	4x4	Pentium 4	2.53	512KB	533	256MB	40GB	DVD-ROM	Extreme GMCH		Gigabit	XP Pro		Sep 2002
M42	8305-63U	4x4	Pentium 4	2.53	512KB	533	256MB	40GB	DVD-ROM	Radeon 7000 64MB		10/100	XP Pro		Sep 2002
M42	8305-81U	4x4	Pentium 4	2.66	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	W G	Sep 2002
M42	8305-82U	4x4	Pentium 4	2.66	512KB	533	256MB	40GB	DVD-ROM	Extreme GMCH		Gigabit	XP Pro	W G	Sep 2002
M42	8305-83U	4x4	Pentium 4	2.66	512KB	533	256MB	40GB	DVD-ROM	Radeon 7000 64MB		10/100	XP Pro		Sep 2002
M42	8305-54U	4x4	Pentium 4	1.8	512KB	400	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro		Sep 2002
M42	8305-65U	4x4	Pentium 4	2.53	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro		Sep 2002
M42	8305-85U	4x4	Pentium 4	2.66	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro		Sep 2002

Positioning	<i>Stability and manageability for the enterprise</i>										Desktop		
Processor	Intel® Pentium 4 at 1.8, 2.53, or 2.66GHz with 400 or 533MHz FSB												
L2 cache	512KB std and max / ECC / full speed												
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket										Bay ① 5.25", HH 1.6", access, std CD or DVD Bay ② 5.25", HH 1.6" access, open Bay ③ 3.5", SL 1", access, std diskette Bay ④ 3.5", SL 1", no access, std disk		
Memory - std/max ⁸	128MB or 256MB std / 1GB max										Slot 1: full-length, full-height, 32-bit AGP 4X (1.5v) - used Slot 2: full-length, full-height, 32-bit PCI 2.2 (5v) in Slot 3: full-length, full-height, 32-bit PCI 2.2 (5v) some Slot 4: full-length, full-height, 32-bit PCI 2.2 (5v)		
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used										<ul style="list-style-type: none"> • 16.7" W X 16.3"D X 5.5"H • 425mm W X 414mm D X 140mm H • 22 to 25 lb (10.0 to 11.4 kg) • Stealth black color • Bay 1 and 2 in cage flips up (latched and pivoting) • Bay 3 and 4 in cage flips up (latched and pivoting) • Toolless rails for disk mounting • Toolless cover removal; toolless AGP and PCI slots 		
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)												
Graphics controller (one of following)	<ul style="list-style-type: none"> • Integrated Intel Extreme™ Graphics / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector • ATI Radeon 7000 / AGP 4X adapter / Radeon GPU / 64MB std and max 332MHz DDR-SDRAM / 300MHz RAMDAC / one analog DB-15 connector 												
Disk	40GB, ATA-100, 7200 rpm, rubber vibration dampening mounts												
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)												
Diskette drive	3.5" 1.44MB diskette drive												
CD-ROM	<i>Some:</i> 48X-20X ⁴ CD-ROM / bootable												
DVD-ROM	<i>Some:</i> 16X-48X Max ⁴ DVD-ROM / bootable												
Cables	Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop cable to disk)												
Chipset	Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse										SYSTEMS MANAGEMENT		
Ports	<i>Front:</i> two USB (Version 2.0) <i>Back:</i> four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)										<ul style="list-style-type: none"> • PC 2001-compliant • Advanced Power Management 1.2 • Advanced Configuration and Power Interface (ACPI) 1.0b • SMBIOS 2.3.1-compliant • DMI 2.0-compliant • <i>Security chip models:</i> Asset ID™, 19 (system-specific info in chip) 		
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec										SECURITY		
Audio connectors	<i>Back:</i> microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]										<ul style="list-style-type: none"> • U bolt anchoring feature (U-bolt is optional; supports optional padlock) • Security slot (for attachment of optional cable lock) • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Boot without keyboard or mouse • Diskette and disk I/O control • Serial/parallel I/O control • <i>Security chip models:</i> security chip providing C2 tamper switch, Asset ID¹⁹, keylock on chassis, and other features 		
Speaker	One internal speaker for business audio												
Ethernet	<i>Some:</i> 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN® <i>Some:</i> 10/100/1000 gigabit ethernet on planar / Intel 82540EM PHY (physical layer) and MAC / Intel Pro/1000MT Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN												
Security chip	<i>Some:</i> IBM Embedded Security Subsystem 2.0¹⁸ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security ¹⁶ / TCPA-compliant												
Keyboard / mouse	104-key IBM Preferred Pro Full-size keyboard / IBM Std 2-Button PS/2 Mouse												
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)												
Power supply	185 watts with variable speed fan / universal / manual switch												
Preload with Windows 2000⁵						Options							
Microsoft® Windows® 2000 Professional						128MB PC2100 CL2.5 NP DDR UDIMM	33L3302						
- Disk-to-Disk Recovery (in Service Partition)						256MB PC2100 CL2.5 NP DDR UDIMM	33L3304						
Preload with Windows XP Professional⁵						512MB PC2100 CL2.5 NP DDR UDIMM	33L3306						
Microsoft Windows XP Professional						80GB IDE Disk ATA-100 (7200 rpm)	09N4248						
- Disk-to-Disk Recovery (in Service Partition)						IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950						
Preloaded (all)						48X/32X/48X Max ⁴ CD-RW internal (blk)	22P7042						
• Access IBM						32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	22P6973						
• Access Support Connected Client						IBM DVD-RAM/DVD-R Drive (black)	22P6959						
• Norton AntiVirus (OEM Version)						IBM Portable USB 2.0 20GB Hard Disk	09N4211						
• InterVideo WinDVD (DVD models)						IBM 128MB USB 2.0 Memory Key	22P8998						
Downloadable (all)						IBM G78 17" (16.0" viewable) Monitor (blk)	6627KAN						
• IBM Rapid Restore™ PC						IBM T541 15" Flat Panel Monitor (black)	9512AB1						
• Remote Deployment Manager						IBM T560 15" Flat Panel Monitor (black)	6656HG2						
• IBM Director Agent						IBM P97 17" (18.0" viewable) Monitor (blk)	6651U3N						
• IBM Client Security Sft (security chip models)						IBM Wireless keyboard and mouse (black)	22P5170						
License - CD not included (all)						IBM 675 Uninterruptable Power Supply	33L3478						
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client						IBM High Rate Wireless LAN PCI Adapter	22P6901						
						Kensington® MicroSaver® Desktop Lock	06P3839						
						Other options at ibm.com/pc/us/accessories							
LIMITED WARRANTY¹													
<ul style="list-style-type: none"> ⇒ 3 year parts and labor ⇒ International Warranty Service⁹ ⇒ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time ⇒ On site service upgrade options (in eligible locations):⁷ <ul style="list-style-type: none"> • 3 year IOR 9x5, 4 hour response (ServicePac® part number 41L2734) • 3 year IOR 24x7, 4 hour response (ServicePac part number 41L2740) • 4 year IOR 9x5, Next Business Day (ServicePac part number 69P9161) • 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9162) • 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9163) ⇒ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ 													

See footnotes for important warranty information
 US models announced August 27, 2002
 US models withdrawn effective May 2003, October 2003, December 2003, or February 2004

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁶	EIDE disk and rpm	Optical	Graphics	Security chip	Ethernet	Preload or Global	Workhorse	Avail date
M42	8305-A2U	3x4	Celeron®	1.7	128KB	400	256MB	40GB ² Value	CD-ROM	Extreme™ GMCH		10/100	XP Pro ⁵	No	Dec 2002
M42	8305-58U	4x4	Pentium® 4	1.8	512KB	400	256MB	40GB 7200	CD-RW	Extreme GMCH		10/100	XP Pro	No	Dec 2002
M42	8305-4DU	4x4	Pentium 4	2.4	512KB	533	512MB	40GB 7200	CD-ROM	Extreme GMCH		10/100	XP Pro	No	Dec 2002
M42	8305-4EU	4x4	Pentium 4	2.4	512KB	533	256MB	80GB 7200	Combo	Radeon 7000 64MB		10/100	XP Pro	No	Dec 2002
M42	8305-D1U	4x4	Pentium 4	2.8	512KB	533	256MB	40GB 7200	CD-ROM	Extreme GMCH		10/100	XP Pro	No	Dec 2002
M42	8305-D2U	4x4	Pentium 4	2.8	512KB	533	256MB	40GB 7200	DVD-ROM	Extreme GMCH		Gigabit	XP Pro	No	Dec 2002
M42	8305-D3U	4x4	Pentium 4	2.8	512KB	533	256MB	40GB 7200	DVD-ROM	Radeon 7000 64MB		10/100	XP Pro	No	Dec 2002
M42	8305-E1U	4x4	Pentium 4	3.06	512KB	533	256MB	40GB 7200	CD-ROM	Extreme GMCH		10/100	XP Pro	No	Dec 2002
M42	8305-E3U	4x4	Pentium 4	3.06	512KB	533	256MB	40GB 7200	DVD-ROM	Extreme GMCH		Gigabit	XP Pro	No	Dec 2002
M42	8305-D4U	4x4	Pentium 4	2.8	512KB	533	256MB	40GB 7200	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	No	Dec 2002

Positioning	<i>Stability and manageability for the enterprise</i>									
Processor	Intel® Celeron 1.7GHz with 400MHz frontside bus (FSB) or Intel Pentium 4 at 1.8, 2.4, 2.8, or 3.06GHz with 400 or 533MHz FSB / no Hyper-Threading technology support									
L2 cache	Celeron: 128KB std and max / ECC / full speed Pentium 4: 512KB std and max / ECC / full speed									
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket									
Memory - std/max ⁶	256MB or 512MB std / 2GB max									
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used									
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)									
Graphics controller (one of following)	<ul style="list-style-type: none"> Integrated Intel Extreme™ Graphics / Direct AGP / in 845GL/G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector ATI Radeon 7000 / AGP 4X adapter / Radeon GPU / 64MB std and max 332MHz DDR-SDRAM / 300MHz RAMDAC / one analog DB-15 connector 									
Disk	40 or 80GB, ATA-100, Value (5400 rpm) or 7200 rpm, rubber vibration dampening mounts									
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)									
Diskette drive	3.5" 1.44MB diskette drive									
Optical	One of following: 48X-20X ⁴ CD-ROM, 48X/24X/48X Max ⁴ CD-RW, 16X/48X Max ⁴ DVD-ROM, or 32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo									
Cables	Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop to disk)									
Chipset	Celeron: Intel 845GL chipset / 82845GL Graphics Memory Controller Hub Pentium 4: Intel 845G chipset / 82845G Graphics Memory Controller Hub All: 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse									
Ports	Front: two USB (Version 2.0) Back: four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)									
Audio	Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec									
Audio connectors	Back: microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]									
Speaker	One internal speaker for business audio									
Ethernet	Some: 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 Some: 10/100/1000 gigabit ethernet on planar / Intel 82540EM PHY (physical layer) and MAC / Intel Pro/1000MT Network Connection / 32-bit PCI 2.2									
Security chip	Some: IBM Embedded Security Subsystem 2.0 ¹⁸ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security ¹⁶ / TCPA-compliant									
Keyboard / mouse	104-key IBM Preferred Pro Full-size keyboard / IBM Std 2-Button PS/2 Mouse									
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)									
Power supply	185 watts with variable speed fan / universal / manual switch									

Desktop		
Bay ①	5.25", HH 1.6"	access, std CD or DVD
Bay ②	5.25", HH 1.6"	access, open
Bay ③	3.5", SL 1"	access, std diskette
Bay ④	3.5", SL 1"	no access, std disk
Slot 1*	full-length, full-height, 32-bit AGP 4X (1.5v)* - used	
Slot 2:	full-length, full-height, 32-bit PCI 2.2 (5v) in	
Slot 3:	full-length, full-height, 32-bit PCI 2.2 (5v) some	
Slot 4:	full-length, full-height, 32-bit PCI 2.2 (5v)	
* Slot not available on Celeron-based 8305-A2U model		
<ul style="list-style-type: none"> Stealth black color 16.7" W X 16.3" D X 5.5" H 425mm W X 414mm D X 140mm H 22 to 25 lb (10.0 to 11.4 kg) Bay 1 and 2 in cage flips up (latched and pivoting) Bay 3 and 4 in cage flips up (latched and pivoting) Toolless rails for disk mounting Toolless cover removal; toolless AGP and PCI slots 		

SYSTEMS MANAGEMENT	
<ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b SMBIOS 2.3.1-compliant DMI 2.0-compliant Security chip models: Asset ID™.19 (system-specific info in chip) 	
SECURITY	
<ul style="list-style-type: none"> U bolt anchoring feature (U-bolt is optional; supports optional padlock) Security slot (for attachment of optional cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control Security chip models: security chip providing C2 tamper switch, Asset ID¹⁹, keylock on chassis, and other features 	

Preload with Windows XP Professional⁵		Options	
Microsoft Windows XP Professional		128MB PC2100 CL2.5 NP DDR UDIMM	33L3302
- Disk-to-Disk Recovery (in Service Partition)		256MB PC2100 CL2.5 NP DDR UDIMM	33L3304
Preloaded (all)		512MB PC2100 CL2.5 NP DDR UDIMM	33L3306
• Access IBM		1GB PC2100 NP CL2.5 DDR UDIMM	33L3308
• Access Support Connected Client		80GB IDE Disk ATA-100 (7200 rpm)	09N4248
• Norton AntiVirus (OEM Version)		IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
• InterVideo WinDVD (Combo, DVD models)		48X/32X/48X Max ⁴ CD-RW internal (blk)	22P7042
• Veritas RecordNow and DLA (Combo and CD-RW models)		32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	22P6973
Downloadable (all)		IBM DVD-RAM/DVD-R Drive (black)	22P6959
• IBM Rapid Restore™ PC		IBM Portable USB 2.0 20GB Hard Disk	09N4211
• Remote Deployment Manager		IBM 128MB USB 2.0 Memory Key	22P8998
• Software Migration Assistant		IBM G78 17" (16.0" viewable) Monitor (blk)	6627KAN
• IBM Director Agent		IBM T541 15" Flat Panel Monitor (black)	9512AB1
• IBM Client Security Sft (security chip models)		IBM T560 15" Flat Panel Monitor (black)	6656HG2
• Update Connector™.15		IBM P97 17" (18.0" viewable) Monitor (blk)	6651U3N
License - CD not included (all)		IBM High Rate Wireless LAN PCI Adapter	22P6901
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client		Kensington® MicroSaver® Desktop Lock	06P3839
		Other options at ibm.com/pc/us/accessories	

LIMITED WARRANTY¹	
<ul style="list-style-type: none"> 3 year parts and labor International Warranty Service⁹ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time On site service upgrade options (in eligible locations):⁷ <ul style="list-style-type: none"> 3 year IOR 9x5, 4 hour response (ServicePac® part number 41L2734) 3 year IOR 24x7, 4 hour response (ServicePac part number 41L2740) 4 year IOR 9x5, Next Business Day (ServicePac part number 69P9161) 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9162) 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9163) 24x7¹⁴ toll-free support for warranty issues during the warranty period¹ 	

See footnotes for important warranty information
US models announced November 19, 2002
US models withdrawn effective May 2003, October 2003, December 2003, or March 2004

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁸	EIDE disk	Optical	Graphics	Security chip	Ethernet	Preload	Available date
M42	8307-22U	4x5	Pentium [®] 4	2.0	512KB	400	128MB	40GB ²	CD-ROM	Extreme™ GMCH		10/100	XP Pro ⁵	Jun 2002
M42	8307-25U	4x5	Pentium 4	2.0	512KB	400	128MB	40GB	CD-ROM	Extreme GMCH		10/100	2000	Jun 2002
M42	8307-31U	4x5	Pentium 4	2.26	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	Jun 2002
M42	8307-41U	4x5	Pentium 4	2.4	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	Jun 2002
M42	8307-43U	4x5	Pentium 4	2.4	512KB	533	256MB	80GB	DVD-ROM	Extreme GMCH		10/100	XP Pro	Jun 2002
M42	8307-32U	4x5	Pentium 4	2.26	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	Jun 2002

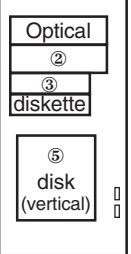
Positioning	<i>Stability and manageability for the enterprise</i>		Tower
Processor	Intel® Pentium 4 at 2.0, 2.26, 2.4GHz with 400 or 533MHz FSB		<ul style="list-style-type: none"> 7.5" W X 15.7" D X 16.3" H 190mm W X 399mm D X 415mm H 22.5 to 29.5 lb (10.2 to 13.4 kg) Stealth black color Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots
L2 cache	512KB std and max / ECC / full speed		
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket		
Memory - std/max ⁸	128MB or 256MB std / 1GB max		Bay ① 5.25", HH 1.6", access, std optical Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, std disk
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used		Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v) Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v)
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)		
Graphics controller	Integrated Intel Extreme™ Graphics / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector		
Disk	40 or 80GB, ATA-100, 7200 rpm, rubber vibration dampening mounts		
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)		
Diskette drive	3.5" 1.44MB diskette drive		
CD-ROM	Some: 48X-20X ⁴ CD-ROM / bootable		
DVD-ROM	Some: 16X-48X Max ⁴ DVD-ROM / bootable		
Cables	Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop cable to disk)		
Chipset	Intel 845G chipset / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse		

Ports	<i>Front:</i> two USB (Version 2.0) <i>Back:</i> four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b System Management BIOS DMI 2.0-compliant <i>Security chip models:</i> Asset ID™.19 (system-specific info in chip)
Audio	Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec	
Audio connectors	<i>Back:</i> microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]	SECURITY <ul style="list-style-type: none"> U bolt anchoring feature (U-bolt is optional; supports optional padlock) Security slot (for attachment of optional cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control <i>Security chip models:</i> security chip providing C2 tamper switch, Asset ID¹⁹, keylock on chassis, and other features
Speaker	One internal speaker for business audio	
Ethernet	10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN [®]	
Security chip	Some: IBM Embedded Security Subsystem 2.0¹⁸ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security ¹⁶ / TCPA-compliant	
Keyboard	104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector)	
Mouse	IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector)	
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)	
Power supply	185 watts with variable speed fan / universal / manual switch	

Preload with Windows 2000⁵	Options	
Microsoft® Windows® 2000 Professional	128MB PC2100 CL2.5 NP DDR UDIMM	33L3302
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM	33L3304
Preload with Windows XP Professional⁵	512MB PC2100 CL2.5 NP DDR UDIMM	33L3306
Microsoft Windows XP Professional	80GB IDE Disk ATA-100 (7200 rpm)	09N4248
- Disk-to-Disk Recovery (in Service Partition)	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
	48X/32X/48X Max ⁴ CD-RW internal (blk)	22P7042
Preloaded (all)	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	10K3790
• Access IBM	IBM DVD-RAM/DVD-R Drive (black)	22P6959
• Access Support Connected Client	IBM Portable USB 2.0 20GB Hard Disk	09N4211
• Norton AntiVirus (OEM Versions)	IBM 128MB USB 2.0 Memory Key	22P8998
• InterVideo WinDVD (DVD models)	IBM G78 17" (16.0" viewable) Monitor (blk)	66274AN
Downloadable (all)	IBM T541 15" Flat Panel Monitor (black)	9512AB1
• IBM Rapid Restore™ PC	IBM T560 15" Flat Panel Monitor (black)	6656HG2
• IBM Data Transfer	IBM P97 17" (18.0" viewable) Monitor (blk)	6651U3N
• IBM Director Agent	IBM Wireless keyboard and mouse (blk)	22P5170
• IBM Client Security Sft (security chip models)	IBM 675 Uninterruptable Power Supply	33L3478
License - CD not included (all)	IBM High Rate Wireless LAN PCI Adapter	22P6901
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	Kensington® MicroSaver® Desktop Lock	06P3839
	Other options at ibm.com/pc/us/accessories	
LIMITED WARRANTY¹		
↔ 3 year parts and labor		
↔ International Warranty Service⁹		
↔ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time		
↔ 3 year on site warranty service upgrade options⁷:		
• 4 hour response, Mon-Fri 8-5 (ServicePac® part number 41L2734)		
• 4 hour response, 7 day x 24 hr (ServicePac part number 41L2740)		
↔ Post warranty maintenance services available		
↔ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹		

See footnotes for important warranty information
 US models announced June 4, 2002
 US models withdrawn effective May, October, or December 2003
 (8307) © IBM Corp. December 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁶	EIDE disk and rpm	Optical	Graphics	Security chip	Ethernet	Preload	Workhorse or Global	Available date
M42	8307-A3U	3x5	Celeron®	1.8	128KB	400	256MB	40GB ⁷ 7200	CD-ROM	Extreme™ GMCH		10/100	XP Pro ⁵	No	Mar 2003
M42	8307-A4U	3x5	Celeron	2.0	128KB	400	256MB	40GB 7200	CD-ROM	Extreme GMCH		10/100	XP Pro	No	Mar 2003
M42	8307-A5U	3x5	Celeron	2.1	128KB	400	256MB	40GB 7200	CD-ROM	Extreme GMCH		10/100	XP Pro	No	Mar 2003
M42	8307-48U	4x5	Pentium®	42.4	512KB	533	256MB	40GB 7200	CD-RW	Extreme GMCH		10/100	XP Pro	No	Mar 2003
M42	8307-49U	4x5	Pentium 4	2.4	512KB	533	256MB	40GB 7200	CD-ROM	Extreme GMCH		10/100	2000	No	Mar 2003
M42	8307-84U	4x5	Pentium 4	2.66	512KB	533	256MB	40GB 7200	Combo	Radeon 7000 64MB		10/100	XP Pro	No	Mar 2003

Positioning	<i>Stability and manageability for the enterprise</i>										Tower				
Processor	Intel® Celeron 1.8, 2.0, or 2.1GHz with 400MHz frontside bus (FSB) or Intel Pentium 4 at 2.4B or 2.66GHz with 533MHz FSB / no Hyper-Threading technology support										<ul style="list-style-type: none"> Stealth black color 7.5" W X 16.0" D X 16.3" H 191mm W X 406mm D X 413mm H 20.0 to 22.5 lb (9.1 to 10.2 kg) Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots 				
L2 cache	Celeron: 128KB std and max / ECC / full speed Pentium 4: 512KB std and max / ECC / full speed														
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket										Bay ① 5.25", HH 1.6", access, std optical Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, std disk				
Memory - std/max ⁶	256MB std / 2GB max										Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v)* Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v) Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v)				
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used										* Used in some models; slot not available on Celeron-based models				
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)														
Graphics controller (one of following)	<ul style="list-style-type: none"> Integrated Intel Extreme™ Graphics / Direct AGP / in 845GL/G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector ATI Radeon 7000 / AGP 4X adapter / Radeon GPU / 64MB std and max 332MHz DDR-SDRAM / 300MHz RAMDAC / one analog DB-15 connector 														
Disk	40GB, ATA-100, 7200 rpm, rubber vibration dampening mounts														
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)														
Diskette drive	3.5" 1.44MB diskette drive														
Optical	One of following: 48X-20X ⁴ CD-ROM, 48X/24X/48X Max ⁴ CD-RW, or 32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo														
Cables	Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop to disk)														
Chipset	Celeron: Intel 845GL chipset / 82845GL Graphics Memory Controller Hub Pentium 4: Intel 845G chipset / 82845G Graphics Memory Controller Hub All: 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse										SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b SMBIOS 2.3.1-compliant DMI 2.0-compliant Security chip models: Asset ID™.19 (system-specific info in chip) 				
Ports	Front: two USB (Version 2.0) Back: four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)										SECURITY <ul style="list-style-type: none"> U bolt anchoring feature (U-bolt is optional; supports optional padlock) Security slot (for attachment of optional cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control 				
Audio	Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec														
Audio connectors	Back: microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]														
Speaker	One internal speaker for business audio														
Ethernet	Some: 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100 Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN®														
Security chip	None														
Keyboard	104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector)														
Mouse	IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector)														
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)														
Power supply	185 watts with variable speed fan / universal / manual switch														
Preload with Windows XP Professional⁵ Microsoft® Windows® XP Professional - Disk-to-Disk Recovery (in Service Partition)										Options 128MB PC2100 CL2.5 NP DDR UDIMM 33L3302 256MB PC2100 CL2.5 NP DDR UDIMM 33L3304 512MB PC2100 CL2.5 NP DDR UDIMM 33L3306					
Preload with Windows 2000⁵ Microsoft Windows 2000 Professional - Disk-to-Disk Recovery (in Service Partition)										1GB PC2100 NP CL2.5 DDR UDIMM 33L3308 80GB IDE Disk ATA-100 (7200 rpm) 09N4248 120GB IDE Disk ATA-100 (7200 rpm) 09N4249					
Preloaded (all) • Access IBM • Access Support • IBM Rapid Restore™ PC • Update Connector™.15 • Norton AntiVirus (OEM Version) • InterVideo WinDVD (Combo models) • Veritas RecordNOW and DLA (Combo and CD-RW models)										IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950 48X/24X/48X Max ⁴ CD-RW internal (blk) 22P6997 32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 22P6973 IBM DVD-RAM/DVD-R Drive (black) 22P6959 IBM Multi-Burner internal (black) 22P6970 IBM Portable USB 2.0 20GB Hard Disk 09N4211 Iomega® Zip 750MB USB 2.0 Drive 22P7099 IBM 128MB USB 2.0 Memory Key 22P8998					
Downloadable (all) • Software Delivery Assistant • Software Migration Assistant • Remote Deployment Manager • IBM Director Agent										IBM G78 17" (16.0" viewable) Monitor (blk) 6627KAN IBM T541H 15" Flat Panel Monitor (black) 9512HB0 IBM T560 15" Flat Panel Monitor (black) 6656HG2 IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N IBM Wireless keyboard and mouse (black) 22P5170 IBM 675 Uninterruptable Power Supply 33L3478 IBM High Rate Wireless LAN PCI Adapter 22P6901 Kensington® MicroSaver® Desktop Lock 06P3839					
License - CD not included (all) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client										Other options at ibm.com/pc/us/accessories					
										LIMITED WARRANTY¹ ⇨ 3 year parts and labor ⇨ International Warranty Service ⁹ ⇨ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time ⇨ On site service upgrade options (in eligible locations): ⁷ <ul style="list-style-type: none"> 3 year IOR 9x5, 4 hour response (ServicePac® part number 41L2734) 3 year IOR 24x7, 4 hour response (ServicePac part number 41L2740) 4 year IOR 9x5, Next Business Day (ServicePac part number 69P9161) 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9162) 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9163) ⇨ 24x7 ¹⁴ toll-free support for warranty issues during the warranty period ¹					

See footnotes for important warranty information

US models announced March 4, 2003

US models withdrawn effective June 2003 or October 2003

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁶	EIDE disk	Optical	Graphics	Security chip	Ethernet	Preload	Available date
M42	8307-51U	4x5	Pentium® 4	1.8	512KB	400	256MB	40GB ²	CD-ROM	Extreme™ GMCH		10/100	XP Pro ⁵	Sep 2002
M42	8307-52U	4x5	Pentium 4	1.8	512KB	400	128MB	40GB	CD-ROM	Extreme GMCH		10/100	2000	Sep 2002
M42	8307-61U	4x5	Pentium 4	2.53	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	Sep 2002
M42	8307-62U	4x5	Pentium 4	2.53	512KB	533	256MB	40GB	DVD-ROM	Radeon 7000 64MB		10/100	XP Pro	Sep 2002
M42	8307-81U	4x5	Pentium 4	2.66	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH		10/100	XP Pro	Sep 2002
M42	8307-82U	4x5	Pentium 4	2.66	512KB	533	256MB	40GB	DVD-ROM	Radeon 7000 64MB		10/100	XP Pro	Sep 2002
M42	8307-53U	4x5	Pentium 4	1.8	512KB	400	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	Sep 2002
M42	8307-63U	4x5	Pentium 4	2.53	512KB	533	256MB	40GB	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	Sep 2002

Positioning *Stability and manageability for the enterprise*
 Processor **Intel® Pentium 4 at 1.8, 2.53, or 2.66GHz** with 400 or 533MHz FSB
 L2 cache **512KB** std and max / ECC / full speed
 Implementation Processor and L2 cache in FC-PGA2 in mPGA478B socket

Memory - std/max⁸ **128MB** or **256MB** std / 1GB max
 Memory - sockets Two 184-pin gold plated DIMM sockets / one socket used
 Memory - type **PC2100 266MHz DDR-SDRAM** / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)

Graphics controller (one of following)

- Integrated Intel Extreme™ Graphics** / Direct AGP / in 845G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector
- ATI Radeon 7000** / AGP 4X adapter / Radeon GPU / **64MB** std and max 332MHz DDR-SDRAM / 300MHz RAMDAC / one analog DB-15 connector

Disk 40GB, ATA-100, 7200 rpm, rubber vibration dampening mounts
 Disk controller Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)
 Diskette drive 3.5" 1.44MB diskette drive
 CD-ROM *Some:* 48X-20X⁴ CD-ROM / bootable
 DVD-ROM *Some:* 16X-48X Max⁴ DVD-ROM / bootable
 Cables Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop cable to disk)

Chipset **Intel 845G chipset** / 82845G Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse

Ports *Front:* two USB (Version 2.0)
Back: four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)

Audio Integrated digital audio / SoundMAX® 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec
 Audio connectors *Back:* microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]
 Speaker One internal speaker for business audio
 Ethernet 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN®

Security chip *Some:* **IBM Embedded Security Subsystem 2.0¹⁸** / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security¹⁶ / TCPA-compliant

Keyboard 104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector)
 Mouse IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector)
 Cooling fans Three variable speed fans (power supply, fansink, rear fan)
 Power supply 185 watts with variable speed fan / universal / manual switch

Tower

- 7.5" W X 16.0" D X 16.3" H
- 191mm W X 406mm D X 413mm H
- 20.0 to 22.5 lb (9.1 to 10.2 kg)
- Stealth black color
- Handle on top front
- Disk bay pivots forward
- Power supply latched and pivots from left side
- Toolless rails for disk mounting
- Toolless cover removal
- Toolless AGP and PCI slots

Bay ① 5.25", HH 1.6", access, std optical
 Bay ② 5.25", HH 1.6", access, open
 Bay ③ 3.5", SL 1", access, open
 Bay ④ 3.5", SL 1", access, std diskette
 Bay ⑤ 3.5", SL 1", no access, std disk

Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v)*
 Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v)
 Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v)
 Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v)
 *Used in some models

SYSTEMS MANAGEMENT

- PC 2001-compliant
- Advanced Power Management 1.2
- Advanced Configuration and Power Interface (ACPI) 1.0b
- SBMIO 2.3.1-compliant
- DMI 2.0-compliant
- Security chip models:* Asset ID™¹⁹ (system-specific info in chip)

SECURITY

- U bolt anchoring feature (U-bolt is optional; supports optional padlock)
- Security slot (for attachment of optional cable lock)
- Power-on password
- Administrator password
- Boot sequence control
- Diskette boot inhibit
- Boot without keyboard or mouse
- Diskette and disk I/O control
- Serial/parallel I/O control
- Security chip models:* security chip providing C2 tamper switch, Asset ID¹⁹, keylock on chassis, and other features

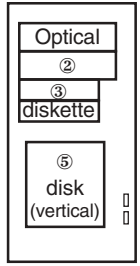
LIMITED WARRANTY¹

- ↔ **3 year parts and labor**
- ↔ **International Warranty Service⁹**
- ↔ **On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time**
- ↔ **On site service upgrade options (in eligible locations):⁷**
 - 3 year IOR 9x5, 4 hour response** (ServicePac® part number 41L2734)
 - 3 year IOR 24x7, 4 hour response** (ServicePac part number 41L2740)
 - 4 year IOR 9x5, Next Business Day** (ServicePac part number 69P9161)
 - 4 year IOR 9x5, 4 hour response** (ServicePac part number 69P9162)
 - 4 year IOR 24x7, 4 hour response** (ServicePac part number 69P9163)
- ↔ **24x7¹⁴ toll-free support for warranty issues during the warranty period¹**

Preload with Windows 2000 ⁵	Options
Microsoft® Windows® 2000 Professional	128MB PC2100 CL2.5 NP DDR UDIMM 33L3302
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM 33L3304
Preload with Windows XP Professional⁵	512MB PC2100 CL2.5 NP DDR UDIMM 33L3306
Microsoft Windows XP Professional	80GB IDE Disk ATA-100 (7200 rpm) 09N4248
- Disk-to-Disk Recovery (in Service Partition)	IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950
Preloaded (all)	48X/32X/48X Max ⁴ CD-RW internal (blk) 22P7042
• Access IBM	32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 22P6973
• Access Support Connected Client	IBM DVD-RAM/DVD-R Drive (black) 22P6959
• Norton AntiVirus (OEM Versions)	IBM Portable USB 2.0 20GB Hard Disk 09N4211
• InterVideo WinDVD (DVD models)	IBM 128MB USB 2.0 Memory Key 22P8998
Downloadable (all)	IBM G78 17" (16.0" viewable) Monitor (blk) 6627KAN
• IBM Rapid Restore™ PC	IBM T541 15" Flat Panel Monitor (black) 9512AB1
• Remote Deployment Manager	IBM T560 15" Flat Panel Monitor (black) 6656HG2
• IBM Director Agent	IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N
• IBM Client Security Sft (security chip models)	IBM Wireless keyboard and mouse (black) 22P5170
License - CD not included (all)	IBM 675 Uninterruptable Power Supply 33L3478
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	IBM High Rate Wireless LAN PCI Adapter 22P6901
	Kensington® MicroSaver® Desktop Lock 06P3839
	Other options at ibm.com/pc/us/accessories

See footnotes for important warranty information
 US models announced August 27, 2002
 US models withdrawn effective May 2003, October 2003, or February 2004

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁸	EIDE disk and rpm	Optical	Graphics	Security chip	Ethernet	Preload	Workhorse or Global	Available date
M42	8307-A2U	3x5	Celeron®	1.7	128KB	400	256MB	40GB ⁹ Value	CD-ROM	Extreme™ GMCH		10/100	XP Pro ⁵	No	Dec 2002
M42	8307-21U	4x5	Pentium® 4	2.0	512KB	400	256MB	40GB 7200	CD-ROM	Extreme GMCH		10/100	XP Pro	No	Dec 2002
M42	8307-55U	4x5	Pentium 4	1.8	512KB	400	256MB	40GB 7200	CD-RW	Extreme GMCH		10/100	XP Pro	No	Dec 2002
M42	8307-46U	4x5	Pentium 4	2.4	512KB	533	256MB	40GB 7200	CD-ROM	Extreme GMCH		Gigabit	XP Pro	No	Dec 2002
M42	8307-47U	4x5	Pentium 4	2.4	512KB	533	256MB	80GB 7200	Combo	Radeon 7000 64MB		10/100	XP Pro	No	Dec 2002
M42	8307-D1U	4x5	Pentium 4	2.8	512KB	533	256MB	40GB 7200	CD-ROM	Extreme GMCH		10/100	XP Pro	No	Dec 2002
M42	8307-D2U	4x5	Pentium 4	2.8	512KB	533	256MB	40GB 7200	DVD-ROM	Radeon 7000 64MB		10/100	XP Pro	No	Dec 2002
M42	8307-E1U	4x5	Pentium 4	3.06	512KB	533	256MB	40GB 7200	CD-ROM	Extreme GMCH		10/100	XP Pro	No	Dec 2002
M42	8307-D3U	4x5	Pentium 4	2.8	512KB	533	256MB	40GB 7200	CD-ROM	Extreme GMCH	Chip	10/100	XP Pro	No	Dec 2002

Positioning Processor	<i>Stability and manageability for the enterprise</i> Intel® Celeron 1.7GHz with 400MHz frontside bus (FSB) or Intel Pentium 4 at 1.8, 2.4, 2.8, or 3.06GHz with 400 or 533MHz FSB / no Hyper-Threading technology support		Tower
L2 cache	<i>Celeron:</i> 128KB std and max / ECC / full speed <i>Pentium 4:</i> 512KB std and max / ECC / full speed		<ul style="list-style-type: none"> Stealth black color 7.5" W X 16.0" D X 16.3" H 191mm W X 406mm D X 413mm H 20.0 to 22.5 lb (9.1 to 10.2 kg) Handle on top front Disk bay pivots forward Power supply latched and pivots from left side Toolless rails for disk mounting Toolless cover removal Toolless AGP and PCI slots
Implementation	Processor and L2 cache in FC-PGA2 in mPGA478B socket		
Memory - std/max ⁸	256MB std / 2GB max		
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used		
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)		
Graphics controller (one of following)	<ul style="list-style-type: none"> Integrated Intel Extreme™ Graphics / Direct AGP / in 845GL/G GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector ATI Radeon 7000 / AGP 4X adapter / Radeon GPU / 64MB std and max 332MHz DDR-SDRAM / 300MHz RAMDAC / one analog DB-15 connector 		Bay ① 5.25", HH 1.6", access, std optical Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, std disk
Disk	40 or 80GB, ATA-100, Value (5400 rpm) or 7200 rpm, rubber vibration dampening mounts		Slot 1: 3/4-length, full-height, 32-bit AGP 4X (1.5v)*
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)		Slot 2: 3/4-length, full-height, 32-bit PCI 2.2 (5v)
Diskette drive	3.5" 1.44MB diskette drive		Slot 3: 3/4-length, full-height, 32-bit PCI 2.2 (5v)
Optical	One of following: 48X-20X ⁴ CD-ROM, 48X/24X/48X Max ⁴ CD-RW, 16X/48X Max ⁴ DVD-ROM, or 32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo		Slot 4: 3/4-length, full-height, 32-bit PCI 2.2 (5v)
Cables	Two EIDE 80-conductor cables (one 2-drop cable to optical, one 1-drop to disk)		* Used in some models; slot not available on Celeron-based 8307-A2U model
Chipset	<i>Celeron:</i> Intel 845GL chipset / 82845GL Graphics Memory Controller Hub <i>Pentium 4:</i> Intel 845G chipset / 82845G Graphics Memory Controller Hub <i>All:</i> 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temp sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse		SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0b SMBIOS 2.3.1-compliant DMI 2.0-compliant Security chip models: Asset ID™.19 (system-specific info in chip)
Ports	<i>Front:</i> two USB (Version 2.0) <i>Back:</i> four USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15)		SECURITY <ul style="list-style-type: none"> U bolt anchoring feature (U-bolt is optional; supports optional padlock) Security slot (for attachment of optional cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control Security chip models: security chip providing C2 tamper switch, Asset ID¹⁹, keylock on chassis, and other features
Audio	Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec		LIMITED WARRANTY¹ <ul style="list-style-type: none"> 3 year parts and labor International Warranty Service⁹ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time On site service upgrade options (in eligible locations):⁷ <ul style="list-style-type: none"> 3 year IOR 9x5, 4 hour response (ServicePac[®] part number 41L2734) 3 year IOR 24x7, 4 hour response (ServicePac part number 41L2740) 4 year IOR 9x5, Next Business Day (ServicePac part number 69P9161) 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9162) 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9163)
Audio connectors	<i>Back:</i> microphone-in (mono), line-in (stereo), line-out (stereo) [all 3.5mm]		
Speaker	One internal speaker for business audio		
Ethernet	<i>Some:</i> 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN [®] <i>Some:</i> 10/100/1000 gigabit ethernet on planar / Intel 82540EM PHY (physical layer) and MAC / Intel Pro/1000MT Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN		
Security chip	<i>Some:</i> IBM Embedded Security Subsystem 2.0 ¹⁸ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security ¹⁶ / TCPA-compliant		
Keyboard	104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector)		
Mouse	IBM Std 2-Button PS/2 Mouse (6-pin PS/2 connector)		
Cooling fans	Three variable speed fans (power supply, fansink, rear fan)		
Power supply	185 watts with variable speed fan / universal / manual switch		
Preload with Windows XP Professional⁵		Options	
Microsoft Windows XP Professional		128MB PC2100 CL2.5 NP DDR UDIMM	33L3302
- Disk-to-Disk Recovery (in Service Partition)		256MB PC2100 CL2.5 NP DDR UDIMM	33L3304
Preloaded (all)		512MB PC2100 CL2.5 NP DDR UDIMM	33L3306
• Access IBM		1GB PC2100 CL2.5 NP DDR UDIMM	33L3308
• Access Support Connected Client		80GB IDE Disk ATA-100 (7200 rpm)	09N4248
• Norton AntiVirus (OEM Versions)		IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
• InterVideo WinDVD (Combo, DVD models)		48X/32X/48X Max ⁴ CD-RW internal (blk)	22P7042
• Veritas RecordNOW and DLA (Combo and CD-RW models)		32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	22P6973
Downloadable (all)		IBM DVD-RAM/DVD-R Drive (black)	22P6959
• IBM Rapid Restore™ PC		IBM Portable USB 2.0 20GB Hard Disk	09N4211
• Remote Deployment Manager		IBM 128MB USB 2.0 Memory Key	22P8998
• Software Migration Assistant		IBM G78 17" (16.0" viewable) Monitor (blk)	6627KAN
• IBM Director Agent		IBM T541 15" Flat Panel Monitor (black)	9512AB1
• IBM Client Security Sft (security chip models)		IBM T560 15" Flat Panel Monitor (black)	6656HG2
License - CD not included (all)		IBM P97 17" (18.0" viewable) Monitor (blk)	6651U3N
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client		IBM 675 Uninterruptable Power Supply	33L3478
		IBM High Rate Wireless LAN PCI Adapter	22P6901
		Other options at ibm.com/pc/us/accessories	

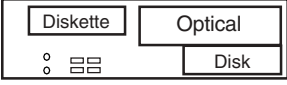
See footnotes for important warranty information
US models announced November 19, 2002
US models withdrawn effective May 2003, October 2003, or March 2004

IBM® NetVista™ S40, S40p (6644, 6645, 6646) - withdrawn

Name	Type-model	Processor	MHz ¹	Mem	Disk	CD-ROM	Graphics	Ethernet	Chip set	Preload	Design	Warr parts/labor	Avail
S40	6644-D1U	Celeron™	566/66	64MB	10GB	None	in GMCH	10/100	810E	Windows 2000	Legacy-free	1 yr / 1 yr	June 00
S40	6645-N3U	Pentium® III	667/133	128MB	10GB	40X-17X ⁴	in GMCH	10/100	810E	Windows 2000	Legacy-free	3 yr / 1 yr	June 00
S40	6645-P1U	Pentium III	733/133	128MB	20GB	40X-17X	in GMCH	10/100	810E	Windows 2000	Legacy-free	3 yr / 1 yr	June 00
S40p	6646-Q1U	Pentium III	866/133	128MB	20GB	40X-17X	in GMCH	10/100	810E	Windows 2000	Legacy-free	3 yr / 3 yr	Sept 00

Processor	Intel® Celeron 566MHz with 66MHz system bus or Pentium III 667, 733, 866MHz with 133MHz system bus	Legacy-free Desktop																																					
Implementation	Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA) in PGA370 socket	Bay ① 5.25", HH 1.6", access, std CD-ROM Bay ② 3.5", SL 1", no access, std disk																																					
Processor upgrade	None / no SMP	Slot 1: 32-bit Low Profile PCI 2.2 (5v)* - ethernet Slot 2: 32-bit Low Profile PCI 2.2 (5v)																																					
Avail / withdrawn date	June 2000 or September 2000 / May 2001	* Slot 1 supports Alert on LAN and Wake on LAN																																					
L2 cache	<i>Celeron:</i> 128KB std and max / ECC / full speed <i>Pentium III:</i> 256KB std and max / ECC / full speed	<ul style="list-style-type: none"> Stealth Black color Blue door to cover CD-ROM bay Stand included for vertical orientation 																																					
Memory - std/max	64MB or 128MB std / 512MB max	<p align="center">SECURITY</p> <ul style="list-style-type: none"> Keylockable cover (S40p 6646 only) RFID antenna (S40p 6646 only) C2 tamper switch (S40p 6646 only) U-Bolt anchoring feature enabled Supports Kensington locks Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Hardfile I/O control 																																					
Memory - sockets	Two 168-pin gold plated DIMM sockets / one socket used																																						
Memory - type	SDRAM / non-parity only / industry std / unbuffered / 133MHz SDRAM, but 810E interface to memory is 100MHz																																						
Graphics - type	SVGA / graphics controller and DAC integrated in the memory controller / not a separate chip or adapter card																																						
Graphics - controller	AGP 2X-class graphics / Direct AGP / in 82810E Graphics Memory Controller Hub (GMCH)	<p align="center">SYSTEMS MANAGEMENT</p> <ul style="list-style-type: none"> Universal Manageability Services (UM) Desktop Extensions enabled SMART Reaction II PC 99-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 1.0a System Management BIOS DMI 2.0-compliant RPL and DHCP support Wake on LAN Alert on LAN 																																					
Display cache	0MB std and max / 230MHz DAC / Dynamic Video Memory Technology (DVMT) uses main memory with no display cache ⁸																																						
Graphics features	2D and 3D hardware acceleration with hardware cursor / VESA DPMS, DDC1/DDC2B / supports up to 1600x1200 at 85Hz with 65,536 colors or 1024x768 at 85Hz with 16.7 million colors																																						
Disk controller	One EIDE disk / all disks SMART ³ III and SMART Reaction II Enhanced IDE/ ATA-66 / integrated into I/O Controller Hub (ICH) / two IDE connectors on motherboard / 1-drop cable to disk and CD-ROM																																						
Motherboard Architecture	Flex ATX / all connectors and slots on motherboard	<p>Dimensions:</p> <ul style="list-style-type: none"> - 3.47"W X 15.41"D X 12.53"H - 88mmW X 391mmD X 318mmH 15 lb (6.80 kg) 																																					
Bus slots	Two Low-Profile PCI 2.2 32-bit 33MHz slots / no AGP slot																																						
Chip set	Intel 810E⁹ chip set / 82810E Graphics Memory Controller Hub (GMCH) / 82801 I/O Controller Hub (ICH) for PCI 2.2 bus, ATA-66 EIDE, USB, Low Pin Count Interface / 82802 Firmware Hub																																						
Serial / parallel ports	No serial ports / no parallel port																																						
Universal Serial Bus	Five USB ports (Version 1.1) / two on front / three on back	<p>IBM NetVista Universal Manageability (UM) Desktop Extensions</p> <p>UM incorporates leading IBM desktop tools, including XPoint SMART Reaction II, Universal Manageability Services, EZAdmin, and PC-Doctor. One new tool includes CMOS Configurator to allow an administrator to change specific CMOS settings remotely</p>																																					
Diskette drive	No diskette drive																																						
CD-ROM	<i>Some models:</i> 40X-17X ⁴ speed CD-ROM / CAV / ATAPI / bootable																																						
Audio	Integrated digital audio / software based audio (done by processor and ICH) / AC '97 interface / AD11885 codec (analog mixing, Analog-to-Digital and Digital-to-Analog conversion)																																						
Audio connectors	Line and headphone out / line in / microphone jack (all in back / 3.5mm)	<p align="center">LIMITED WARRANTY⁹</p> <ul style="list-style-type: none"> ↪ 6644: 1 year parts / 1 year labor ↪ 6645: 3 year parts / 1 year labor ↪ 6646: 3 year parts / 3 year labor ↪ International Warranty Service⁹ ↪ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ↪ 6645: 2nd/3rd year parts exchange only; call 1-800-772-2227 ↪ 6645/6646: On site warranty upgrade options available⁷ ↪ Post warranty options available ↪ IBM SystemXtra^{®16} ↪ 24 hour / 7 day telephone, electronic, and Internet support 																																					
Speaker	One internal speaker / requires externally powered speakers																																						
Modem	None																																						
Ethernet controller	10/100 ethernet / Low Profile PCI adapter / 82559 chip set / Alert on LAN / Wake on LAN ⁹																																						
Enhanced security	S40p (6646) has a security chip (256-bit encryption) daughtercard attached to motherboard which enables keylockable cover, RFID antenna, and C2 tamper switch	<p>Options</p> <table border="0"> <tr><td>Rapid Access™ Keyboard II</td><td>33L3174</td></tr> <tr><td>USB Joystick</td><td>09N9959</td></tr> <tr><td>64MB SDRAM 133MHz NP DIMM</td><td>33L3071</td></tr> <tr><td>128MB SDRAM 133MHz NP DIMM</td><td>33L3073</td></tr> <tr><td>256MB SDRAM 133MHz NP DIMM</td><td>33L3075</td></tr> <tr><td>Low Profile Ethernet PCI</td><td>19K4301</td></tr> <tr><td>USB Serial Cable</td><td>09N3823</td></tr> <tr><td>USB Hub</td><td>33L4767</td></tr> <tr><td>USB PC Camera</td><td>33L4890</td></tr> <tr><td>UltraPort USB Camera</td><td>08N1032</td></tr> <tr><td>USB Intel Home RF</td><td>09N9836</td></tr> <tr><td>S Cradle</td><td>00N8062</td></tr> <tr><td>USB Diskette Drive</td><td>05K9276</td></tr> <tr><td>Portable Drive Bay 2000</td><td>19K4480</td></tr> <tr><td>10.1GB IDE Hard Drive</td><td>00N8202</td></tr> <tr><td>USB External Zip 100</td><td>00N9911</td></tr> <tr><td>USB External 250MB Zip Drive</td><td>10K3506</td></tr> <tr><td>Zip Drive 250MB</td><td>00N8078</td></tr> </table>		Rapid Access™ Keyboard II	33L3174	USB Joystick	09N9959	64MB SDRAM 133MHz NP DIMM	33L3071	128MB SDRAM 133MHz NP DIMM	33L3073	256MB SDRAM 133MHz NP DIMM	33L3075	Low Profile Ethernet PCI	19K4301	USB Serial Cable	09N3823	USB Hub	33L4767	USB PC Camera	33L4890	UltraPort USB Camera	08N1032	USB Intel Home RF	09N9836	S Cradle	00N8062	USB Diskette Drive	05K9276	Portable Drive Bay 2000	19K4480	10.1GB IDE Hard Drive	00N8202	USB External Zip 100	00N9911	USB External 250MB Zip Drive	10K3506	Zip Drive 250MB	00N8078
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Keyboard / mouse	104-key keyboard (USB) / IBM ScrollPoint™ III (USB) / no keyboard or mouse ports (uses USB)																																						
Power supply	95 watts with variable speed fan / universal / manual switch / built-in overload and surge protection																																						
<p>Windows 2000 Preload⁵</p> <p>Microsoft® Windows® 2000 Professional</p> <ul style="list-style-type: none"> - Lotus SmartSuite® license⁶ - Lotus Notes® Client 5.0 license⁶ ↪ Software Selections CD-ROM ↪ Windows 2000 Product Recovery CD-ROM (includes drivers and diagnostics) <p>Software Selections CD-ROM⁵</p> <p>All models ship with a CD with various appls, utilities, and customization features</p>																																							
<p>Optional NetVista S Cradle</p> <ul style="list-style-type: none"> - Bay for optional Portable Drive Bay 2000 for Ultrabay 2000 devices - Bay for optional CompactFlash USB Reader for IBM Microdrive or CompactFlash memory - Workpad® cradle holder - Acts as a vertical stand - Part number 00N8062 																																							

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁸	Diskette drive	EIDE disk	Optical	Graphics	Ethernet	Preload or Global	Workhorse Available date
S42	8319-11U	2x3	Pentium® 4	1.8	512KB	400	256MB	Diskette	40GB ²	CD-ROM	Extreme™ GMCH	10/100	XP Pro ⁵	Oct 2002
S42	8319-12U	2x3	Pentium 4	1.8	512KB	400	256MB	Diskette	40GB	CD-ROM	Extreme GMCH	Gigabit	XP Pro	Oct 2002
S42	8319-14U	2x3	Pentium 4	1.8	512KB	400	256MB	None	40GB	None	Extreme GMCH	10/100	XP Pro	Oct 2002
S42	8319-21U	2x3	Pentium 4	2.0	512KB	400	256MB	Diskette	40GB	CD-ROM	Extreme GMCH	10/100	XP Pro	Oct 2002
S42	8319-22U	2x3	Pentium 4	2.0	512KB	400	256MB	Diskette	40GB	CD-ROM	Extreme GMCH	Gigabit	XP Pro	Oct 2002
S42	8319-31U	2x3	Pentium 4	2.26	512KB	533	256MB	Diskette	40GB	CD-ROM	Extreme GMCH	10/100	XP Pro	Oct 2002
S42	8319-41U	2x3	Pentium 4	2.4	512KB	533	256MB	Diskette	40GB	CD-ROM	Extreme GMCH	10/100	XP Pro	G Oct 2002
S42	8319-42U	2x3	Pentium 4	2.4	512KB	533	256MB	None	40GB	None	Extreme GMCH	10/100	XP Pro	Oct 2002
S42	8319-43U	2x3	Pentium 4	2.4	512KB	533	256MB	Diskette	40GB	DVD	Extreme GMCH	Gigabit	XP Pro	Oct 2002
S42	8319-51U	2x3	Pentium 4	2.53	512KB	533	256MB	Diskette	40GB	CD-ROM	Extreme GMCH	10/100	XP Pro	Oct 2002
S42	8319-52U	2x3	Pentium 4	2.53	512KB	533	256MB	Diskette	40GB	DVD	Extreme GMCH	Gigabit	XP Pro	Oct 2002

Positioning Processor	<i>Smallest NetVista desktop without compromise</i> Intel® Pentium 4 at 1.8, 2.0, 2.26, 2.4, or 2.53GHz with 400 or 533MHz frontside bus (FSB)	Small Form Factor 
L2 cache Implementation	512KB std and max / ECC / full speed Processor and L2 cache in FC-PGA2 in mPGA478B socket	
Memory - std/max ⁸	256MB std / 2GB max	Bay ① 3.5", SL 1", access, std diskette
Memory - sockets	Two 184-pin gold plated DIMM sockets / one socket used	Bay ② 5.25", HH 1.6", access, std optical
Memory - type	PC2100 266MHz DDR-SDRAM / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)	Bay ③ 3.5", SL 1", no access, std disk
Graphics controller	Integrated Intel Extreme™ Graphics / Direct AGP / in 845GV GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector	Slot 1: full-length (175mm), full-height, 32-bit PCI 2.2 (5v) Slot 2: full-length (175mm), full-height, 32-bit PCI 2.2 (5v)
Disk	40GB, ATA-100, 7200 rpm	Both slots on a riser card inserted into systemboard
Disk controller	Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)	<ul style="list-style-type: none"> Stealth black color 12.2" W X 13.6" D X 3.3" H 309mm W X 345mm D X 84mm H 13.70 to 16.82 lb (6.2 to 7.6kg) Toolless removal of cover, disk, and memory System stand for vertical orientation (included standard) 9 liter chassis volume Metal chassis for thermal dissipation and strength Uses industry standard optical and disk drives
Diskette drive	<i>Some models:</i> 3.5" 1.44MB diskette drive / optional USB diskette drive available	
CD-ROM	<i>Some models:</i> 48X-20X ⁴ CD-ROM / bootable	
DVD	<i>Some models:</i> 16X/48X Max ⁴ DVD-ROM (ATAPI) / bootable	
IDE cables	One 40-conductor EIDE cable (systemboard to CD-ROM), one 80-conductor EIDE cables (systemboard to disk)	

Chipset	Intel 845GV chipset / 82845GV Graphics Memory Controller Hub (GMCH) / 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temperature sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse	SYSTEMS MANAGEMENT <ul style="list-style-type: none"> PC 2001-compliant Advanced Power Management 1.2 Advanced Configuration and Power Interface (ACPI) 2.0 SM BIOS 2.3.1-compliant DMI 2.0-compliant
Ports	<i>Front:</i> four USB (Ver 2.0), microphone-in (mono), line-out (stereo) [both 3.5mm] <i>Back:</i> two USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15), microphone-in (mono), line-in (stereo), line-out (stereo) [all audio 3.5mm]	
Audio	Integrated digital audio / SoundMAX® Cadenza™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec	SECURITY <ul style="list-style-type: none"> Padlock loop (to lock the cover to system with optional padlock or cable lock) Security slot (for attachment of optional cable lock such as Kensington cable lock) Power-on password Administrator password Boot sequence control Diskette boot inhibit Boot without keyboard or mouse Diskette and disk I/O control Serial/parallel I/O control
Speaker	One internal beeper / requires externally powered speaker(s) (not included)	
Ethernet	<i>Some:</i> 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN® <i>Some:</i> 10/100/1000 gigabit ethernet on planar / Intel 82540EM PHY (physical layer) and MAC / Intel Pro/1000MT Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN	
Security chip	None	
Keyboard	104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector)	
Mouse	IBM Standard 2-Button Mouse (6-pin PS/2 connector)	
Cooling fans	Four variable speed fans (two on side, one on processor, one on power supply)	
Power supply	200 watts with variable speed fan / internal (not external) / universal / manual switch	

Preload with Windows XP Professional⁵ Microsoft® Windows® XP Professional - Disk-to-Disk Recovery (in Service Partition)	Options 128MB PC2100 CL2.5 NP DDR UDIMM 33L3302 256MB PC2100 CL2.5 NP DDR UDIMM 33L3304 512MB PC2100 CL2.5 NP DDR UDIMM 33L3306 1GB PC2100 CL2.5 NP DDR UDIMM 33L3308 80GB IDE Disk ATA-100 (7200 rpm) 09N4248 120GB IDE Disk ATA-100 (7200 rpm) 09N4249 IBM USB Portable Diskette Drive 05K9276 IBM 48X-20X ⁴ CD-ROM internal (black) 10K3782 IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950 48X/24X/48X Max ⁴ CD-RW internal (blk) 22P6997 32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 22P6973 IBM DVD-RAM/DVD-R Drive (black) 22P6959 IBM Portable USB 2.0 20GB Hard Disk 09N4211 IBM 128MB USB 2.0 Memory Key 22P8998 IBM G78 17" (16.0" viewable) Monitor (blk) 6627KAN IBM T541 15" Flat Panel Monitor (black) 9512AB1 IBM T560 15" Flat Panel Monitor (black) 6656HG2 IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N IBM 675 Uninterruptable Power Supply 33L3478 Kensington® MicroSaver® Desktop Lock 06P3839 IBM High Rate Wireless LAN PCI Adapter 22P6901 Other options at ibm.com/pc/us/accessories	LIMITED WARRANTY¹ ⇨ 3 year parts and labor ⇨ International Warranty Service ⁹ ⇨ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time ⇨ On site service upgrade options (in eligible locations): ⁷ <ul style="list-style-type: none"> 3 year IOR 9x5, 4 hour response (ServicePac® part number 41L2734) 3 year IOR 24x7, 4 hour response (ServicePac part number 41L2740) 4 year IOR 9x5, Next Business Day (ServicePac part number 69P9161) 4 year IOR 9x5, 4 hour response (ServicePac part number 69P9162) 4 year IOR 24x7, 4 hour response (ServicePac part number 69P9163) ⇨ Post warranty maintenance services available ⇨ 24x7 ¹⁴ toll-free support for warranty issues during the warranty period ¹
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See footnotes for important warranty information
US models announced October 1, 2002

Name	Type-model	Slot x bay	Processor	GHz	L2 cache	FSB MHz	Memory ⁸	Diskette drive	EIDE disk	Optical	Graphics	Ethernet	Preload or Global	Workhorse Available date
S42	8317-23U	2x3	Celeron®	1.8	128KB	400	256MB	Diskette	40GB ²	CD-ROM	Extreme™ GMCH	10/100	XP Pro ⁵	Feb 2003
S42	8317-24U	2x3	Celeron	1.8	128KB	400	128MB	None	40GB	CD-ROM	Extreme GMCH	10/100	XP Pro	Feb 2003
S42	8317-31U	2x3	Celeron	2.0	128KB	400	256MB	Diskette	40GB	CD-ROM	Extreme GMCH	10/100	XP Pro	Feb 2003
S42	8319-46U	2x3	Pentium® 4	2.4	512KB	533	256MB	Diskette	40GB	CD-ROM	Extreme GMCH	10/100	2000	Feb 2003
S42	8319-48U	2x3	Pentium 4	2.4	512KB	533	256MB	Diskette	40GB	Combo	Extreme GMCH	10/100	XP Pro	Feb 2003
S42	8319-61U	2x3	Pentium 4	2.66	512KB	533	256MB	Diskette	40GB	CD-ROM	Extreme GMCH	10/100	2000	Feb 2003
S42	8319-62U	2x3	Pentium 4	2.66	512KB	533	256MB	Diskette	40GB	CD-ROM	Extreme GMCH	10/100	XP Pro	Feb 2003
S42	8319-65U	2x3	Pentium 4	2.66	512KB	533	256MB	Diskette	40GB	DVD	Extreme GMCH	Gigabit	XP Pro	Feb 2003
S42	8319-81U	2x3	Pentium 4	2.8	512KB	533	256MB	Diskette	40GB	CD-ROM	Extreme GMCH	10/100	XP Pro	Feb 2003
S42	8319-83U	2x3	Pentium 4	2.8	512KB	533	256MB	Diskette	40GB	DVD	Extreme GMCH	Gigabit	XP Pro	Feb 2003

Positioning Processor *Smallest NetVista desktop without compromise*
Intel® Celeron at 1.8 or 2.0GHz with 400MHz frontside bus(FSB) or **Intel Pentium 4 at 2.4, 2.66, or 2.8GHz** with 533MHz frontside bus
 L2 cache *Celeron: 128KB; Pentium 4: 512KB; All: ECC / full speed*
 Implementation Processor and L2 cache in FC-PGA2 in mPGA478B socket

Memory - std/max⁸ **128 or 256MB std / 2GB max**
 Memory - sockets Two 184-pin gold plated DIMM sockets / one socket used
 Memory - type **PC2100 266MHz DDR-SDRAM** / non-parity / industry std / unbuffered / CAS Latency 2.5 (CL2.5)

Graphics controller **Integrated Intel Extreme™ Graphics** / Direct AGP / in 845GV GMCH / uses main memory (up to 32MB with 128MB main memory; up to 64MB with 256MB+) / DVMT / 15-pin analog D-sub connector

Disk 40GB, ATA-100, 7200 rpm
 Disk controller Enhanced IDE / ATA-100 / integrated in I/O Controller Hub (ICH4)
 Diskette drive *Some models: 3.5" 1.44MB diskette drive / optional USB diskette drive available*
 Optical *One of the following: 16X/48X Max⁴ DVD-ROM, 48X-20X⁴ CD-ROM, 32X/10X/40X/16X Max¹¹ CD-RW/DVD-ROM Combo*
 IDE cables One 40-conductor EIDE cable (systemboard to CD-ROM), one 80-conductor EIDE cables (systemboard to disk)

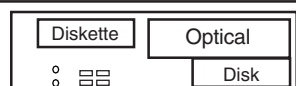
Chipset **8317: Intel 845GL chipset** / 82845GL Graphics Memory Controller Hub (GMCH) **8319: Intel 845GV chipset** / 82845GV Graphics Memory Controller Hub (GMCH) *All: 82801DB I/O Controller Hub (ICH4) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / Firmware Hub / LM86 temperature sensor / LPC47M133 Super I/O for diskette, parallel, serial, keyboard, mouse*

Ports *Front: four USB (Ver 2.0), microphone-in (mono), line-out (stereo) [both 3.5mm] Back: two USB (Version 2.0), two 9-pin serial, parallel (25-pin), keyboard (PS/2), mouse (PS/2), ethernet (RJ-45), monitor (DB-15), microphone-in (mono), line-in (stereo), line-out (stereo) [all audio 3.5mm]*

Audio Integrated digital audio / SoundMAX® Cadenza™ / software-based audio (done by processor and ICH4) / AC '97 interface / ADI1981A codec
 Speaker One internal beeper / requires externally powered speaker(s) (not included)
 Ethernet *Some: 10/100 ethernet on planar / ICH4 (MAC layer) with Intel 82562EX PHY (physical layer) / Intel Pro/100VE Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN[®] Some: 10/100/1000 gigabit ethernet on planar / Intel 82540EM PHY (physical layer) and MAC / Intel Pro/1000MT Network Connection / 32-bit PCI 2.2 / supports PXE and Wake on LAN*

Security chip None
 Keyboard 104-key IBM Preferred Pro Full-size keyboard (6-pin PS/2 connector)
 Mouse IBM Standard 2-Button Mouse (6-pin PS/2 connector)
 Cooling fans Four variable speed fans (two on side, one on processor, one on power supply)
 Power supply 200 watts with variable speed fan / internal (not external) / universal / manual switch

Small Form Factor



Bay ① 3.5", SL 1", access, std diskette
 Bay ② 5.25", HH 1.6", access, std optical
 Bay ③ 3.5", SL 1", no access, std disk
 Slot 1: full-length (175mm), full-height, 32-bit PCI 2.2 (5v)
 Slot 2: full-length (175mm), full-height, 32-bit PCI 2.2 (5v)
 Both slots on a riser card inserted into systemboard

- Stealth black color
- 12.2" W X 13.6"D X 3.3"H
- 309mm W X 345mm D X 84mm H
- 13.70 to 16.82 lb (6.2 to 7.6kg)
- Toolless removal of cover, disk, and memory
- System stand for vertical orientation (included standard)
- 9 liter chassis volume
- Metal chassis for thermal dissipation and strength
- Uses industry standard optical and disk drives

SYSTEMS MANAGEMENT

- PC 2001-compliant
- Advanced Power Management 1.2
- Advanced Configuration and Power Interface (ACPI) 2.0
- SMBIOS 2.3.1-compliant
- DMI 2.0-compliant

SECURITY

- Padlock loop (to lock the cover to system with optional padlock or cable lock)
- Security slot (for attachment of optional cable lock such as Kensington cable lock)
- Power-on password
- Administrator password
- Boot sequence control
- Diskette boot inhibit
- Boot without keyboard or mouse
- Diskette and disk I/O control
- Serial/parallel I/O control

Preload with Windows XP Professional ⁵	Options
Microsoft® Windows® XP Professional	128MB PC2100 CL2.5 NP DDR UDIMM 33L3302
- Disk-to-Disk Recovery (in Service Partition)	256MB PC2100 CL2.5 NP DDR UDIMM 33L3304
Preload with Windows 2000⁵	512MB PC2100 CL2.5 NP DDR UDIMM 33L3306
Microsoft Windows 2000 Professional	1GB PC2100 CL2.5 NP DDR UDIMM 33L3308
- Disk-to-Disk Recovery (in Service Partition)	80GB IDE Disk ATA-100 (7200 rpm) 09N4248
Preloaded (all)	120GB IDE Disk ATA-100 (7200 rpm) 09N4249
• IBM Rapid Restore™ PC	IBM USB Portable Diskette Drive 05K9276
• Access IBM	IBM 48X-20X ⁴ CD-ROM internal (black) 10K3782
• Access Support Connected Client	IBM 16X Max ⁴ DVD-ROM Drive (black) 22P6950
• Adobe Acrobat Reader	48X/24X/48X Max ⁴ CD-RW internal (blk) 22P6997
• Intervideo WinDVD player (DVD, combo)	32X/10X/40X/16X Max ¹¹ CD-RW/DVD-ROM Combo drive (black) 22P6973
• Norton AntiVirus (OEM Version)	IBM DVD-RAM/DVD-R Drive (black) 22P6959
• PC-Doctor™	IBM Portable USB 2.0 20GB Hard Disk 09N4211
Downloadable (all)	IBM 128MB USB 2.0 Memory Key 22P8998
• Remote Deployment Manager	IBM G78 17" (16.0" viewable) Monitor (blk) 6627KAN
• Software Delivery Assistant	IBM T541 15" Flat Panel Monitor (black) 9512AB1
• IBM Director Agent	IBM T560 15" Flat Panel Monitor (black) 6656HG2
• Software Migration Assistant	IBM P97 17" (18.0" viewable) Monitor (blk) 6651U3N
• Update Connector™ ¹⁵	IBM 675 Uninterruptible Power Supply 33L3478
License - CD not included (all)	Kensington® MicroSaver® Desktop Lock 06P3839
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	IBM High Rate Wireless LAN PCI Adapter 22P6901
	Other options at ibm.com/pc/us/accessories

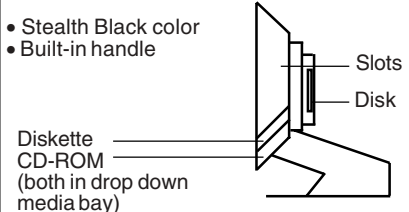
LIMITED WARRANTY¹

- ↔ **3 year parts and labor**
- ↔ **International Warranty Service⁹**
- ↔ **On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time**
- ↔ **On site service upgrade options (in eligible locations):⁷**
 - **3 year IOR 9x5, 4 hour response** (ServicePac® part number 41L2734)
 - **3 year IOR 24x7, 4 hour response** (ServicePac part number 41L2740)
 - **4 year IOR 9x5, Next Business Day** (ServicePac part number 69P9161)
 - **4 year IOR 9x5, 4 hour response** (ServicePac part number 69P9162)
 - **4 year IOR 24x7, 4 hour response** (ServicePac part number 69P9163)
- ↔ **Post warranty maintenance services available**
- ↔ **24x7¹⁴ toll-free support for warranty issues during the warranty period¹**

See footnotes for important warranty information
 US models announced January 28, 2003
 US models withdrawn effective June 2003 or August 2003

IBM® NetVista™ X40i (2179) - withdrawn

Type-model	Processor	MHz	Mem	Disk	CD or DVD	Screen	Graphics	Modem	Ethernet	Preload	Design	Available
2179-700	Celeron™	533/66	64MB	10G ²	24X-10X ⁴	15" TFT XGA	AGP 2X 8MB	modem	10/100	98 SE	All-in-one	May 2000
2179-750	Pentium® III	600/133	64MB	15G	6X-2X DVD	15" TFT XGA	AGP 2X 8MB	modem	10/100	98 SE	All-in-one	May 2000
2179-71U	Celeron	633/133	64MB	20G	24X-10X	15" TFT XGA	AGP 2X 8MB	modem	10/100	Millennium	All-in-one	Sep 2000
2179-53U	Pentium III	800/133	128MB	20G	8X-2X DVD	15" TFT XGA	AGP 2X 16M	modem	10/100	Millennium	All-in-one	Oct 2000
2179-77U	Pentium III	800/133	128MB	20G	CD-RW	15" TFT XGA	AGP 2X 16M	modem	10/100	Millennium	All-in-one	Oct 2000
2179-81U	Celeron	733/66	64MB	20G	24X-10X	15" TFT XGA	AGP 2X 16M	modem	10/100	Millennium	All-in-one	Apr 2001
2179-86U	Pentium III	1GHz/133	128MB	20G	8X-2X DVD	15" TFT XGA	AGP 2X 16M	modem	10/100	Millennium	All-in-one	Apr 2001
2179-88U	Pentium III	1GHz/133	128MB	20G	CD-RW	15" TFT XGA	AGP 2X 16M	modem	10/100	Millennium	All-in-one	Apr 2001

Processor	Intel® Celeron 533, 633, 733MHz¹ with 66MHz Front Side Bus or Pentium® III 600EB, 800EBMHz, or 1GHz¹ with 133MHz FSB Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA) in PGA370 socket	All-in-one Bay ① 3.5", very slim, access, std diskette Bay ② 5.25", very slim, access, std CD-ROM Bay ③ 3.5", SL 1", no access, std disk Slot 1: 32-bit Low Profile PCI 2.2 (5v)* - modem Slot 2: 32-bit Low Profile PCI 2.2 (5v) * Slot 1 supports Wake on LAN • Stealth Black color • Built-in handle
Implementation		
L2 cache	<i>Celeron:</i> 128KB std and max / ECC / full speed <i>Pentium III:</i> 256KB std and max / ECC / full speed	
Memory - std / max Memory - sockets Memory - type	64 or 128MB std / 512MB max Two 168-pin gold-plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 3.3 volt <i>Celeron:</i> 100MHz SDRAM / PC100-compliant <i>Pentium III:</i> 133MHz SDRAM / PC133-compliant	
Graphics - controller	Integrated in SiS 630 / UltraAGP™ / similar to AGP 2X / 128-bit 2D/3D accelerator / at least 8MB allocated from system memory (Unified Memory Architecture) / 8MB for 64MB system / 16MB for 128MB system / memory size configurable / no external monitor support since no connector	SECURITY • Kensington laptop lock supported • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Diskette and disk I/O control
Integrated monitor	15" TFT color LCD panel / Active Matrix / XGA / 1024x768 XGA addressability / scaling from 640x480 and 800x600 to 1024x768 full screen through SiS 301 / 200-to-1 contrast ratio / 200 nits	
Disk Disk controller Cables	One EIDE disk / ATA-66 / all disks SMART ³ III and SMART Reaction™ II Enhanced IDE / ATA-66 and PIO modes 0-4 with 2 channel support 1 drop IDE ATA-66 (80-conductor) cable to disk and 1-drop IDE ATA-66 (80-conductor) cable to CD-ROM	SYSTEM MANAGEMENT • Universal Manageability Services Desktop Extensions enabled • SMART Reaction™ II • PC 99-compliant • Common Information Model (CIM) 2.2 • ACPI 1.0 • Advanced Power Management 1.2 • Alternate Boot Sequence • DHCP, and PXE support • Setup on LAN, Flash on LAN • System Management BIOS • Systems Migration Assistant support
Motherboard Bus slots Chip set	All connectors and slots on the motherboard Two Low Profile PCI 2.2 32-bit 33MHz slots / no AGP slot SiS 630 North Bridge (memory controller, PCI controller, graphics controller, ethernet, IDE, USB, audio) / ITE IT8705F South Bridge (mouse, keyboard) / SiS 301 for graphic scaling	
Ports	<i>Back:</i> Three USB (Version 1.0a) <i>Side:</i> Two USB (Version 1.0a), ethernet RJ45, keyboard, mouse No serial or parallel ports	Dimensions: 16.26"W x 10.28"D x 16.30"H 413mm W x 261mm D x 414 mm D 22.1 lb (10.0 kg) Optional NetVista Radial Arm with X Mount offers a range of heights and distances
Diskette drive CD-ROM DVD-ROM CD-RW Audio	3.5" 1.44MB diskette drive <i>Some models:</i> 24X-10X ⁴ speed CD-ROM / CAV / ATAPI / bootable <i>Some models:</i> 6X-2X ⁴ speed DVD-ROM / ATAPI / bootable <i>Some models:</i> 4X/4X/20X ⁴ speed CD-RW / ATAPI / bootable Integrated digital audio / software-based audio (done by processor and SiS 630) / AC '97 interface / CS4299 codec / 3D positional stereo effect	
Audio connectors Speaker	<i>Right side:</i> microphone jack, line-in, line-out Two stereo speakers / located in front of base	LIMITED WARRANTY*⁹ ↔ 1 year parts and labor ↔ EasyServ Depot Service (Customer Carry-in Repair) ↔ Customers should contact the IBM HelpCenter at 919-517-2800 ↔ 24 hour x 7 day¹⁴ telephone, electronic, and Internet support
Modem Ethernet controller	V.90 56K ¹⁰ PCI Low Profile data/fax modem 10/100 ethernet / integrated in SiS950 chip set / 10BaseT and 100Base TX / RJ45 connector / no manageability	
Systems mgmt cntrl	None / no support for monitoring of voltages or temperatures	
Keyboard / mouse	88U: Wireless Rapid Access™ Keyboard / Wireless ScrollPoint® mouse <i>Others:</i> IBM Rapid Access III Keyboard (USB) / IBM ScrollPoint® III (USB)	
Infrared	Infrared port in front / IrDa 1.0 compatible / up to 115Kbps	
Power supply	5xx/7xx: 110 watts; 8xx: 115 watts; All: variable speed fan / universal / manual switch / built-in overload and surge protection	

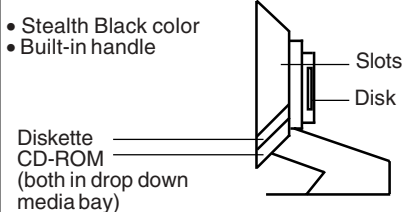
Windows 98 Preload ⁶	Options	
Microsoft Windows 98 Second Edition	64MB SDRAM 133MHz NP DIMM	33L3071
- Lotus SmartSuite® license ⁶	128MB SDRAM 133MHz NP DIMM	33L3073
↔ Windows 98 Product Recovery CD-ROM (includes drivers and diagnostics)	256MB SDRAM 133MHz NP DIMM	33L3075
↔ Software Selections CD-ROM	IBM 6GB IDE Hard Drive, ATA-66	05K9237
Windows Millennium Preload⁹	IBM 12GB IDE Hard Drive, ATA-66	05K9238
Microsoft® Windows® Millennium Edition	IBM 18GB IDE Hard Drive, ATA-66	05K9239
- Lotus® SmartSuite® license ⁶	V.90 56K PCI-LP Data/Fax Modem	19K4162
↔ Windows Millennium Product Recovery CD-ROM (includes drivers and diagnostics)	ADSL/V.90 Combo Low Profile Adap	19K4160
↔ Software Selections CD-ROM	Intel AnyPoint Wireless USB HomeRF	09N9836
Software Selections CD-ROM⁶	Portable Drive Bay 2000	19K4480
All models ship with a CD with various apps, utilities, and customization features	4X/4X/20X CD-RW Ultrabay 2000**	00N8252
	8X/4X/24X CD-RW Ultrabay 2000**	08K9569
	2X SuperDisk (LS-120) Ultrabay 2000**	27L3451
	8X-2X DVD-ROM for Ultrabay 2000**	27L3448
	Zip 250MB Ultrabay 2000**	00N8253
	NetVista Radial Arm X Mount	19K4465
	MultiPort USB Hub	00N8215
	** Requires external Portable Drive Bay 2000	

* For a copy of IBM's Statement of Limited Warranty, call 1-800-772-2227
US models announced May 5, September 12, October 3, 2000, or April 3, 2001
US models withdrawn from marketing effective May 2001 or December 2001

No warranties are expressed or implied in this summary
(2179) © IBM Corp. November 2001

IBM® NetVista™ X40 (6643) - withdrawn

Type-model	Processor	MHz	Mem	Disk	CD-ROM	Screen	Graphics	Ethernet	Chip set	Preload	Design	Avail
6643-11U	Celeron™	566/66	64MB	10.1GB ²	24X-10X ⁴	15" TFT XGA	AGP 2X 8MB	10/100	SiS 630	Windows 98 SE	All-in-one	May 00
6643-12U	Celeron	566/66	128MB	10.1GB	24X-10X	15" TFT XGA	AGP 2X 16MB	10/100	SiS 630	Windows 2000	All-in-one	June 00
6643-13U	Pentium® III	667/133	64MB	20.4GB	24X-10X	15" TFT XGA	AGP 2X 8MB	10/100	SiS 630	Windows 98 SE	All-in-one	May 00
6643-14U	Pentium III	667/133	128MB	20.4GB	24X-10X	15" TFT XGA	AGP 2X 16MB	10/100	SiS 630	Windows 2000	All-in-one	June 00

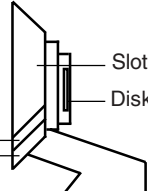
Processor	Intel® Celeron 566MHz¹ with 66MHz system bus or Pentium® III 667MHz with 133MHz system bus	All-in-one Bay ① 3.5", very slim, access, std diskette Bay ② 5.25", very slim, access, std CD-ROM Bay ③ 3.5", SL 1", no access, std disk Slot 1: 32-bit Low Profile PCI 2.2 (5v)* - ethernet Slot 2: 32-bit Low Profile PCI 2.2 (5v) * Slot 1 supports Wake on LAN • Stealth Black color • Built-in handle  Diskette CD-ROM (both in drop down media bay)
Implementation	Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA) in PGA370 socket	
Processor upgrade	None	
L2 cache	<i>Celeron:</i> 128KB std and max / ECC / full speed <i>Pentium III:</i> 256KB std and max / ECC / full speed	
Memory - std / max Memory - sockets Memory - type	64 or 128MB std / 512MB max Two 168-pin gold-plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 3.3 volt <i>Celeron:</i> 100MHz SDRAM / PC100-compliant <i>Pentium III:</i> 133MHz SDRAM / PC133-compliant	
Graphics - controller	Integrated in SiS 630 / UltraAGP™ / similar to AGP 2X / 128-bit 2D/3D accelerator / at least 8MB allocated from system memory (Unified Memory Architecture) / 8MB for 64MB system / 16MB for 128MB system / memory size configurable / no external monitor support since no connector	
Integrated monitor	15" TFT color LCD panel / Active Matrix / XGA / 1024x768 XGA addressability / scaling from 640x480 and 800x600 to 1024x768 full screen through SiS 301 / 200-to-1 contrast ratio / 200 nits	<p align="center">SECURITY</p> <ul style="list-style-type: none"> • Kensington laptop lock supported • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Diskette and disk I/O control <p align="center">SYSTEM MANAGEMENT</p> <ul style="list-style-type: none"> • Universal Manageability Services Desktop Extensions enabled • LANClient Control Manager™ enabled⁷ • SMART Reaction™ II • PC 99-compliant • DMI 2.1-compliant • Common Information Model (CIM) 2.2 • ACPI 1.0 • Advanced Power Management 1.2 • Alternate Boot Sequence • DHCP, and PXE support • Setup on LAN, Flash on LAN • System Management BIOS • Systems Migration Assistant support <p>Dimensions: 16.23"W x 10.28"D x 16.30"H 413mm W x 261mm D x 414 mm D 24.3 lb (11.0 kg) Optional NetVista Radial Arm with X Mount offers a range of heights and distances</p> <p align="center">WARRANTY SERVICE SUPPORT³</p> <ul style="list-style-type: none"> ↔ 3 year parts / 1 year labor warranty ↔ International Warranty Service³ ↔ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ↔ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ↔ On site warranty upgrade options available⁷ ↔ Post warranty options available ↔ IBM SystemXtra^{®16} ↔ 24 hour / 7 day telephone, electronic, and Internet support
Disk	One EIDE disk / all disks SMART ³ III and SMART Reaction™ II	
Disk controller	Enhanced IDE / ATA-66 and PIO modes 0-4 with 2 channel support	
Cables	1 drop IDE ATA-66 (80-conductor) cable to disk and 1-drop IDE ATA-66 (80-conductor) cable to CD-ROM	
Motherboard	All connectors and slots on the motherboard	
Bus slots	Two Low Profile PCI 2.2 32-bit 33MHz slots / no AGP slot	
Chip set	SiS 630 North Bridge (memory controller, PCI controller, graphics controller, ethernet, IDE, USB, audio) / SiS 950 South Bridge (mouse, keyboard) / SiS 301 for graphic scaling	
Ports	<i>Back:</i> Three USB (Version 1.0a) <i>Side:</i> Two USB (Version 1.0a), ethernet RJ45, keyboard, mouse No serial or parallel ports	
Diskette drive	3.5" 1.44MB diskette drive	
CD-ROM	24X-10X speed CD-ROM / CAV / ATAPI / bootable	
Audio	Integrated digital audio / software-based audio (done by processor and SiS 630) / AC '97 interface / CS4299 codec / 3D positional stereo effect	
Audio connectors	<i>Right side:</i> microphone jack, line-in, line-out	
Speaker	Two stereo speakers / located in front of base	
Modem	None standard	
Ethernet controller	Disabled because no manageability / 10/100 ethernet / integrated in SiS950 chip set / 10BaseT and 100Base TX / RJ45 connector	
Ethernet adapter	10/100 ethernet / Low Profile PCI adapter / 82559 chip set / Wake on LAN® / no Alert on LAN	
Systems mgmt cntrl	None / no support for monitoring of voltages or temperatures	
Keyboard / mouse	Preferred USB Keyboard; 104-key (USB) / IBM ScrollPoint™ III (USB)	
Infrared	Infrared port in front / IrDa 1.0 compatible / up to 115Kbps	
Power supply	110 watts with variable speed fan / universal / manual switch / built-in overload and surge protection	
Windows 2000 Preload⁵	Microsoft® Windows® 2000 Professional - Lotus SmartSuite® license ⁶ - Lotus Notes® Client 5.0 license ⁶ ↔ Software Selections CD-ROM ↔ Windows 2000 Product Recovery CD-ROM (includes drivers and diagnostics)	Options 64MB SDRAM 133MHz NP DIMM 33L3071 128MB SDRAM 133MHz NP DIMM 33L3073 256MB SDRAM 133MHz NP DIMM 33L3075 IBM 6GB IDE Hard Drive 05K9237 IBM 12GB IDE Hard Drive 05K9238 IBM 18GB IDE Hard Drive 05K9239 V.90 56K PCI-LP Data/Fax Modem 19K4162 ADSL/V.90 Combo Low Profile Adap 19K4160 Intel AnyPoint Wireless USB HomeRF 09N9836 Portable Drive Bay 2000 19K4480 4X/4X/20X CD-RW Ultrabay 2000** 00N8252 2X SuperDisk(LS-120)Ultrabay2000** 27L3451 6X-2X DVD-ROM for Ultrabay 2000** 05K9232 Zip 250MB Ultrabay 2000** 00N8253 NetVista Radial Arm X Mount 19K4465 IBM USB CompactFlash/Microdrive Reader 09N0692 IBM 1GB Microdrive 07N5574 MultiPort USB Hub 00N8215
Windows 98 Preload⁵	Microsoft Windows 98 Second Edition - Lotus SmartSuite® license ⁶ - Lotus Notes® Client 5.0 license ⁶ ↔ Windows 98 Product Recovery CD-ROM (includes drivers and diagnostics)	** Requires external Portable Drive Bay 2000
Software Selections CD-ROM⁵	All models ship with a CD with various appls, utilities, and customization features	

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Models announced May 5, 2000
Models withdrawn from marketing effective January 2001

No warranties are expressed or implied in this summary
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IBM® NetVista™ X40 (6643) - Fall 2000 - withdrawn

Type-model	Processor	MHz	Mem	Disk	CD-ROM	Screen	Graphics	Ethernet	Chip set	Preload	Design	Avail
6643-21U	Pentium® III	800/133	64MB	20GB ²	24X-10X ⁴	15" TFT XGA	AGP 2X 8MB	10/100	SiS 630	Millennium	All-in-one	Oct 00
6643-22U	Pentium III	800/133	128MB	20GB	24X-10X	15" TFT XGA	AGP 2X 16MB	10/100	SiS 630	Windows 2000	All-in-one	Oct 00
6643-23U	Pentium III	866/133	64MB	30GB	24X-10X	15" TFT XGA	AGP 2X 8MB	10/100	SiS 630	Millennium	All-in-one	Oct 00
6643-24U	Pentium III	866/133	128MB	30GB	24X-10X	15" TFT XGA	AGP 2X 16MB	10/100	SiS 630	Windows 2000	All-in-one	Oct 00

Processor Implementation	Intel® Pentium® III 800EB or 866MHz¹ with 133MHz system bus Processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA) in PGA370 socket	All-in-one Bay ① 3.5", very slim, access, std diskette Bay ② 5.25", very slim, access, std CD-ROM Bay ③ 3.5", SL 1", no access, std disk Slot 1: 32-bit Low Profile PCI 2.2 (5v)* - ethernet Slot 2: 32-bit Low Profile PCI 2.2 (5v) * Slot 1 supports Wake on LAN • Stealth Black color • Built-in handle 
Processor upgrade	None	
L2 cache	256KB std and max / ECC / full speed	
Memory - std / max Memory - sockets Memory - type	64 or 128MB std / 512MB max Two 168-pin gold-plated DIMM sockets / one socket used SDRAM / non-parity only / industry std / unbuffered / 3.3 volt / 133MHz SDRAM / PC133-compliant	
Graphics - controller	Integrated in SiS 630 / UltraAGP™ / similar to AGP 2X / 128-bit 2D/3D accelerator / at least 8MB allocated from system memory (Unified Memory Architecture) / 8MB for 64MB system / 16MB for 128MB system / memory size configurable / no external monitor support since no connector	
Integrated monitor	15" TFT color LCD panel / Active Matrix / XGA / 1024x768 XGA addressability / scaling from 640x480 and 800x600 to 1024x768 full screen through SiS 301 / 200-to-1 contrast ratio / 200 nits	

Disk	One EIDE disk / ATA-66 / all disks SMART ³ III and SMART Reaction™ II
Disk controller	Enhanced IDE / ATA-66 and PIO modes 0-4 with 2 channel support
Cables	1 drop IDE ATA-66 (80-conductor) cable to disk and 1-drop IDE ATA-66 (80-conductor) cable to CD-ROM
Motherboard	All connectors and slots on the motherboard
Bus slots	Two Low Profile PCI 2.2 32-bit 33MHz slots / no AGP slot
Chip set	SiS 630 North Bridge (memory controller, PCI controller, graphics controller, ethernet, IDE, USB, audio) / ITE IT8705F South Bridge (mouse, keyboard) / SiS 301 for graphic scaling
Ports	<i>Back:</i> Three USB (Version 1.0a) <i>Side:</i> Two USB (Version 1.0a), ethernet RJ45, keyboard, mouse No serial or parallel ports
Diskette drive	3.5" 1.44MB diskette drive
CD-ROM	24X-10X speed CD-ROM / CAV / ATAPI / bootable
Audio	Integrated digital audio / software-based audio (done by processor and SiS 630) / AC '97 interface / CS4299 codec / 3D positional stereo effect
Audio connectors	<i>Right side:</i> microphone jack, line-in, line-out
Speaker	Two stereo speakers / located in front of base
Modem	None standard
Ethernet controller	Disabled because no manageability / 10/100 ethernet / integrated in SiS950 chip set / 10BaseT and 100Base TX / RJ45 connector
Ethernet adapter	10/100 ethernet / Low Profile PCI adapter / 82559 chip set / Wake on LAN® / no Alert on LAN
Systems mgmt cntrl	None / no support for monitoring of voltages or temperatures
Keyboard / mouse	Preferred USB Keyboard; 104-key (USB) / IBM ScrollPoint™ III (USB)
Infrared	Infrared port in front / IrDa 1.0 compatible / up to 115Kbps
Power supply	110 watts with variable speed fan / universal / manual switch / built-in overload and surge protection

SECURITY
<ul style="list-style-type: none"> • Kensington laptop lock supported • Power-on password • Administrator password • Boot sequence control • Diskette boot inhibit • Diskette and disk I/O control
SYSTEM MANAGEMENT
<ul style="list-style-type: none"> • Universal Manageability Services Desktop Extensions enabled • LANClient Control Manager™ enabled⁷ • SMART Reaction™ II • PC 99-compliant • Common Information Model (CIM) 2.2 • ACPI 1.0 • Advanced Power Management 1.2 • Alternate Boot Sequence • DHCP, and PXE support • Setup on LAN, Flash on LAN • System Management BIOS • Systems Migration Assistant support
Dimensions: 16.26"W x 10.28"D x 16.30"H 413mm W x 261mm D x 414 mm D 22.1 lb (10.0 kg) Optional NetVista Radial Arm with X Mount offers a range of heights and distances

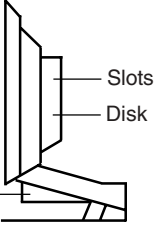
Windows 2000 Preload⁵	Options
Microsoft® Windows® 2000 Professional	64MB SDRAM 133MHz NP DIMM 33L3071
- Lotus SmartSuite® license ⁶	128MB SDRAM 133MHz NP DIMM 33L3073
- Lotus Notes® Client 5.0 license ⁵	256MB SDRAM 133MHz NP DIMM 33L3075
✦ Software Selections CD-ROM	IBM 6GB IDE Hard Drive 05K9237
✦ Windows 2000 Product Recovery CD-ROM (includes drivers and diagnostics)	IBM 12GB IDE Hard Drive 05K9238
	IBM 18GB IDE Hard Drive 05K9239
Windows Millennium Preload⁹	V.90 56K PCI-LP Data/Fax Modem 19K4162
Microsoft® Windows® Millennium Edition	ADSL/V.90 Combo Low Profile Adap 19K4160
- Lotus® SmartSuite® license ⁶	Intel AnyPoint Wireless USB HomeRF 09N9836
- Lotus Notes® Client 5.0 license ⁶	Portable Drive Bay 2000 19K4480
✦ Windows Millennium Product Recovery CD-ROM (includes drivers and diagnostics)	4X/4X/20X CD-RW Ultrabay 2000** 00N8252
✦ Software Selections CD-ROM	2X SuperDisk(LS-120)Ultrabay 2000** 27L3451
	8X-2X DVD-ROM for Ultrabay 2000** 27L3448
Software Selections CD-ROM⁵	Zip 250MB Ultrabay 2000** 00N8253
All models ship with a CD with various appls, utilities, and customization features	NetVista Radial Arm X Mount 19K4465
	IBM USB CompactFlash Reader 09N0692
	IBM 1GB Microdrive 07N5574
	MultiPort USB Hub 00N8215
	** Requires external Portable Drive Bay 2000

WARRANTY SERVICE SUPPORT³
<ul style="list-style-type: none"> ↪ 3 year parts / 1 year labor warranty ↪ International Warranty Service³ ↪ 1st year: on site, 8 am - 5 pm, Mon - Fri coverage, 2nd business day response time ↪ 2nd/3rd year: parts exchange only, call 1-800-772-2227 ↪ On site warranty upgrade options: <ul style="list-style-type: none"> • Next day response⁷, Mon-Fri 8-5 • 4 hour response⁷, 7 day x 24 hr ↪ Post warranty options available ↪ IBM SystemXtra^{®16} ↪ 24 hour / 7 day telephone, electronic, and Internet support

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 Models announced October 3, 2000
 Models withdrawn from marketing effective May 2001

No warranties are expressed or implied in this summary
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IBM® Type-model	Processor	GHz	L2 cache	Memory	Disk and rpm	Optical	Screen	Modem	Ethernet	Keyboard	Preload ⁵	Available date
2283-50U	Pentium® 4	1.5GHz	256KB	128MB	20GB ² Value	CD-ROM	15" TFT XGA	Modem	10/100	RAK** Ille	Windows® XP Home	Nov 2001
2283-51U	Pentium 4	1.6GHz	256KB	128MB	20GB Value	CD-ROM	15" TFT XGA	Modem	10/100	RAK** Ille	Windows XP Home	Nov 2001
2283-53U	Pentium 4	1.6GHz	256KB	128MB	40GB Value	CD-RW	15" TFT XGA	Modem	10/100	RAK** Ille	Windows XP Home	Nov 2001
2283-55U	Pentium 4	1.8GHz	256KB	256MB	40GB 7200	Combo	17" TFT SXGA	Modem	10/100	Wireless	Windows XP Home	Nov 2001

Positioning Processor Implementation L2 cache	<i>Extraordinary, space-saving design with high performance</i> Intel® Pentium 4 1.5, 1.6, 1.8GHz with 400MHz frontside bus Processor and L2 cache in FC-PGA2 in mPGA478B socket 256KB std and max / ECC / full speed	Integrated flat panel PC Bay ① 5.25", HH 1.6", access, std CD or DVD Bay ② 3.5", SL 1", no access, std disk Slot 1: 32-bit low-profile PCI 2.2 (5v) - modem Slot 2: 32-bit low-profile PCI 2.2 (5v) <ul style="list-style-type: none"> Stealth black color Built-in handle Toolless bay access Toolless hatchback cover removal Toolless PCI slots  Optical (drop down media bay)
Memory - std / max Memory - sockets Memory - type	128MB or 256MB std / 1GB max Two 168-pin gold-plated DIMM sockets / one socket used 133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2) / supports optional ECC	
Graphics - controller	ATI® Rage128 Ultra / on planar / AGP 4X / 16MB std and max / 130MHz SDRAM / 250MHz RAMDAC / no std DB-15 external monitor port because of integrated flat panel	
Integrated monitor	15.0" or 17.0" TFT color LCD panel / Active Matrix / removable for service / screen tilts from 0° (vertical) to 30° backward 15.0": 1024x768 XGA , 0.297mm pitch, 200 nits brightness, 300:1 contrast ratio, 262,144 max colors, 35ms cell response time 17.0": 1280x1024 SXGA , 0.264mm pitch, 250 nits brightness, 400:1 contrast ratio, 16.7 million max colors, 45ms response time	

Disk Disk controller IDE cable	One EIDE disk / ATA-100 / SMART ³ III Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2) One 2-drop IDE ATA-100 (80-conductor) cable to disk and optical
Motherboard Bus slots Chip set	All connectors and slots on the motherboard Two low-profile PCI 2.2 32-bit 33MHz slots / no AGP slot Intel 845 chipset / 82845 Memory Controller Hub (MCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / SMSc® LPC47M143 Super I/O for parallel, keyboard, mouse
Ports	<i>Top:</i> Two USB (Version 1.1), ethernet RJ45, keyboard, mouse, microphone jack, line-in, line-out <i>Back:</i> Four USB (Version 1.1), 25-pin parallel, power
Diskette drive CD-ROM CD-RW CD-RW/DVD combo Audio	None / optional USB diskette drive available <i>Some models:</i> 48X-20X ⁴ CD-ROM / ATAPI / drop down <i>Some models:</i> 12X/8X/32X Max ⁴ CD-RW / ATAPI / drop down <i>Some models:</i> 8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo / drop down Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec
Speaker	Two Zylux [®] stereo speakers / located in front of flat panel screen / 6 watts
Modem	56K¹⁰ data/fax modem / Conexant [®] chipset / controllerless HCF modem / PCI adapter / V.92 ready
Ethernet controller	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN [®] / Intel Pro/100VE Desktop Connection
Security chip	None
Systems mgmt cntrl	Monitoring of temperatures via LM75 chip
Keyboard / mouse	<i>Some models:</i> IBM Rapid Access™ Ille Keyboard (USB / no USB hub or ports) / IBM ScrollPoint [®] III mouse (USB) <i>Some models:</i> Wireless Rapid Access Keyboard / Wireless ScrollPoint [®] mouse
Cooling fans	Two (one in baffle for processor, one on top under hatchback)
Power supply	External power brick / 160 watts / universal / auto-sensing

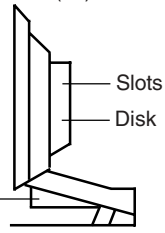
<p>SECURITY</p> <ul style="list-style-type: none"> Keylock (rear hatchback) Kensington laptop lock supported Power-on password Administrator password Boot sequence control Parallel port and disk I/O control <p>SYSTEM MANAGEMENT</p> <ul style="list-style-type: none"> Universal Manageability Services Desktop Extensions enabled SMART Reaction™ II PC 2001-compliant ACPI 1.0b Advanced Power Management 1.2 Wired for Management (WfM) 2.0 DHCP and PXE support Setup on LAN, Flash on LAN System Management BIOS Systems Migration Assistant
<p>15" flat panel model dimensions: 16.5"W x 11.5"D x 17.0"H 422mm W x 304mm D x 433 mm H 23.4 lb (10.8 kg)</p> <p>17" flat panel model dimensions: 18.5"W x 11.5"D x 19.25"H 464mm W x 304mm D x 488 mm H 28.6 lb (13.0 kg)</p> <p>Optional NetVista X Series Radial Arm¹² offers a range of heights and distances</p>

Preload with Windows XP Home ⁵	Options	
Microsoft® Windows XP Home Edition	64MB SDRAM 133MHz CL2 NP DIMM	10K0055
Lotus SmartSuite license ⁶	128MB SDRAM 133MHz CL2 NP DIMM	10K0057
- Disk-to-Disk Recovery (in Service Partition)	256MB SDRAM 133MHz CL2 NP DIMM	10K0059
◇ Software Selections CD-ROM	512MB SDRAM 133MHz CL2 NP DIMM	10K0061
	IBM NetVista X Series Radial Arm	22P7332
	Wireless Keyboard and Mouse (black)	22P5170'
	IBM 675 Uninterruptable Power Supply	33L3478
	IBM USB Portable Diskette Drive	05K9276
	Bluetooth UltraPort Module from IBM	09N9811
	IBM 32MB USB Memory Key	22P5296
	IBM High Rate Wireless LAN PCI Adapter	22P6901
	IBM High R Wireless LAN Access Pt 500	09N9906
	IBM High Rate Wireless LAN Gateway	22P6401
	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950
	12X/8X/32X Max ⁴ CD-RW internal (black)	10K3785
	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	10K3790
	60GB 7200 rpm ATA-100 EIDE disk	09N4207

<p>LIMITED WARRANTY¹</p> <p>↔ 1 year parts and labor</p> <p>↔ On site, 8 am through 5 pm, Mon through Fri excluding holidays, second business day response time</p> <p>↔ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹</p>

See footnotes for important warranty information
 ** RAK stands for Rapid Access™ keyboard
 US models announced September 18, 2001
 US models withdrawn effective March, July, or October 2002

IBM® Type-model	Processor	GHz	Memory	Disk and rpm	Optical	Screen	Embedded Security	Preload ⁵	Small business software	Workhorse models	Available date
6274-10U	Pentium® 4	1.5GHz	128MB	20GB ² Value	CD-ROM	15" TFT XGA		Windows® 2000			Oct 2001
6274-11U	Pentium 4	1.6GHz	128MB	20GB Value	CD-ROM	15" TFT XGA		Windows XP Pro			Nov2001
6274-12U	Pentium 4	1.6GHz	128MB	20GB Value	CD-ROM	15" TFT XGA		Windows 2000			Oct 2001
6274-13U	Pentium 4	1.8GHz	128MB	40GB Value	CD-ROM	15" TFT XGA	Chip	Windows XP Pro		Workhorse	Nov2001
6274-14U	Pentium 4	1.8GHz	128MB	40GB Value	CD-ROM	15" TFT XGA	Chip	Windows 2000		Workhorse	Oct 2001
6274-15U	Pentium 4	1.8GHz	128MB	40GB Value	CD-ROM	17" TFT SXGA		Windows XP Pro			Nov2001
6274-16U	Pentium 4	1.8GHz	128MB	40GB Value	CD-ROM	17" TFT SXGA		Windows 2000			Oct 2001
6274-17U	Pentium 4	1.8GHz	256MB	40GB 7200	DVD-ROM	17" TFT SXGA	Chip	Windows XP Pro		Workhorse	Nov2001
6274-18U	Pentium 4	1.8GHz	256MB	40GB 7200	DVD-ROM	17" TFT SXGA	Chip	Windows 2000		Workhorse	Oct 2001
6274-21U	Pentium 4	1.8GHz	128MB	40GB Value	CD-ROM	15" TFT XGA	Chip	Windows XP Pro	Office XP SB ²⁸		Nov2001
6274-22U	Pentium 4	1.8GHz	256MB	40GB 7200	DVD-ROM	17" TFT SXGA	Chip	Windows XP Pro	Office XP SB		Nov2001
6274-1TU	Pentium 4	1.6GHz	128MB	20GB Value	CD-ROM	15" TFT XGA Touch		Windows 2000			Oct 2001

Positioning	<i>Extraordinary, space-saving design with high performance</i>						Integrated flat panel PC					
Processor Implementation	Intel® Pentium 4 1.5, 1.6, 1.8GHz with 400MHz frontside bus Processor and L2 cache in FC-PGA2 in mPGA478B socket						Bay ① 5.25", HH 1.6", access, std CD or DVD Bay ② 3.5", SL 1", no access, std disk					
L2 cache	256KB std and max / ECC / full speed						Slot 1: 32-bit low-profile PCI 2.2 (5v) Slot 2: 32-bit low-profile PCI 2.2 (5v)					
Memory - std / max	128MB or 256MB std / 1GB max						<ul style="list-style-type: none"> Stealth black color Built-in handle Toolless bay access Toolless hatchback cover removal Toolless PCI slots 					
Memory - sockets	Two 168-pin gold-plated DIMM sockets / one socket used											
Memory - type	133MHz SDRAM / non-parity / industry std / unbuffered / PC133-compliant / CAS Latency 2 (CL2) / supports optional ECC											
Graphics - controller	ATI® Rage128 Ultra / on planar / AGP 4X / 16MB std and max / 130MHz SDRAM / 250MHz RAMDAC / no std DB-15 ext monitor port because of integrated flat panel											
Integrated monitor	15.0", 15.0" Touch, or 17.0" TFT color LCD panel / Active Matrix / removable for service / screen tilts from 0° (vertical) to 30° backward 15.0": 1024x768 XGA , 0.297mm pitch, 200 nits brightness, 300:1 contrast ratio, 262,144 max colors, 35ms cell response time 17.0": 1280x1024 SXGA , 0.264mm pitch, 250 nits brightness, 400:1 contrast ratio, 16.7 million max colors, 45ms response time						CD-ROM or DVD (drop down media bay)					
Disk	One EIDE disk / ATA-100 / SMART ³ III						SECURITY <ul style="list-style-type: none"> Keylock (rear hatchback) Kensington laptop lock supported Power-on password Administrator password Boot sequence control Parallel port and disk I/O control <i>Some models:</i> Security chip providing encryption, Asset ID™ (RFID)¹³, and C2 tamper switch for rear hatchback SYSTEM MANAGEMENT <ul style="list-style-type: none"> Universal Manageability Services Desktop Extensions enabled SMART Reaction™ II PC 2001-compliant ACPI 1.0b Advanced Power Management 1.2 Wired for Management (WfM) 2.0 DHCP and PXE support Setup on LAN, Flash on LAN System Management BIOS Systems Migration Assistant 					
Disk controller	Enhanced IDE / ATA-100 / integrated into I/O Controller Hub (ICH2)											
IDE cable	One 2-drop IDE ATA-100 (80-conductor) cable to disk and optical											
Motherboard	All connectors and slots on the motherboard											
Bus slots	Two low-profile PCI 2.2 32-bit 33MHz slots / no AGP slot											
Chip set	Intel 845 chipset / 82845 Memory Controller Hub (MCH) / 82801BA I/O Controller Hub (ICH2) for PCI 2.2 bus, ATA-100 EIDE, ethernet MAC, USB, Low Pin Count Interface / 82802 Firmware Hub / SMsC® LPC47M143 Super I/O for parallel, keyboard, mouse											
Ports	<i>Top:</i> Two USB (Version 1.1), ethernet RJ45, keyboard, mouse, microphone jack, line-in, line-out <i>Back:</i> Four USB (Version 1.1), 25-pin parallel, power None / optional USB diskette drive available <i>Some models:</i> 48X-20X ⁴ CD-ROM / ATAPI / bootable / drop down <i>Some models:</i> 16X-48X ⁴ DVD / ATAPI / bootable / drop down Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec Two Zylux [®] stereo speakers / located in front of flat panel screen / 6 watts											
Diskette drive	None / optional USB diskette drive available											
CD-ROM	<i>Some models:</i> 48X-20X ⁴ CD-ROM / ATAPI / bootable / drop down											
DVD-ROM	<i>Some models:</i> 16X-48X ⁴ DVD / ATAPI / bootable / drop down											
Audio	Integrated digital audio / SoundMAX [®] 3.0 with SPX™ / software-based audio (done by processor and ICH2) / AC '97 interface / ADI1887 codec											
Speaker	Two Zylux [®] stereo speakers / located in front of flat panel screen / 6 watts											
Modem	None standard											
Ethernet controller	10/100 ethernet on planar / ICH2 (MAC layer) with Intel 82562ETPHY (physical layer) / supports PXE and Wake on LAN® / Intel Pro/100VE Desktop Connection											
Security chip	<i>Some models:</i> IBM Embedded Security Subsystem¹⁸ / daughtercard attached to motherboard, which enables 256-bit encryption, Asset EEPROM, RFID antenna ¹³ , and C2 tamper switch											
Systems mgmt cntrl	Monitoring of temperatures via LM75 chip											
Keyboard / mouse	Preferred USB Keyboard; 104-key (USB) / IBM ScrollPoint® III (USB)											
Cooling fans	Two (one in baffle for processor, one on top under hatchback)											
Power supply	External power brick / 160 watts / universal / auto-sensing											

Preload with Windows 2000 ⁵	Options		LIMITED WARRANTY ¹
Microsoft® Windows 2000 Professional	64MB SDRAM 133MHz CL2 NP DIMM	10K0055	⇒ 3 year parts and labor ⇒ International Warranty Service⁹ ⇒ On site, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time ⇒ 3 year on site warranty service upgrade options available⁷: <ul style="list-style-type: none"> 4 hour response, Mon-Fri 8-5 (ServicePac[®] part number 41L2734) 4 hour response, 7 day x 24 hr (ServicePac part number 41L2740) ⇒ Post warranty maintenance services available ⇒ 24x7¹⁴ toll-free support for warranty issues during the warranty period¹
Lotus SmartSuite license ⁶	128MB SDRAM 133MHz CL2 NP DIMM	10K0057	
Lotus Notes Client 5.0 license ⁶	256MB SDRAM 133MHz CL2 NP DIMM	10K0059	
- Disk-to-Disk Recovery (in Service Partition)	512MB SDRAM 133MHz CL2 NP DIMM	10K0061	
◇ Software Selections CD-ROM	IBM NetVista X Series Radial Arm ¹²	22P7332	
	Wireless Keyboard and Mouse (black)	22P5170	
	IBM 675 Uninterruptable Power Supply	33L3478	
	IBM USB Portable Diskette Drive	05K9276	
	Bluetooth™ UltraPort Module from IBM	09N9811	
	IBM 32MB USB Memory Key	22P5296	
Preload with Windows XP Professional⁵	IBM High Rate Wireless LAN PCI Adapter	22P6901	
Microsoft® Windows® XP Professional Edition	IBM High R Wireless LAN Access Pt 500	09N9906	
Lotus® SmartSuite® license ⁶	IBM High Rate Wireless LAN Gateway	22P6401	
Lotus Notes® Client 5.0 license ⁶	IBM 16X Max ⁴ DVD-ROM Drive (black)	22P6950	
- Disk-to-Disk Recovery (in Service Partition)	12X/8X/32X Max ⁴ CD-RW internal (black)	10K3785	
◇ Software Selections CD-ROM	8X/4X/32X/8X Max ¹¹ CD-RW/DVD-ROM Combo drive (black)	10K3790	
	60GB 7200 rpm ATA-100 EIDE disk	09N4207	

See footnotes for important warranty information
 US models announced September 18, 2001
 US models withdrawn effective March, July, or October 2002

Warranty information: For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept JDJA/B203. IBM makes no representation or warranty regarding third party products or services.

- ¹ Telephone support may be subject to additional charges. For onsite labor, customer may be asked certain diagnostic questions before a technician is sent.
- ² MB/TB/GB = 1 million/billion/trillion bytes when referring to storage capacity. Accessible capacity may be less.
- ³ Self-Monitoring, Analysis and Reporting Technology
- ⁴ CD and DVD drives speeds are variable and are often less than the maximum.
- ⁵ Some software may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.
- ⁶ Diskettes and hard copy documentation are available at an additional charge.
- ⁷ These repair and exchange services are available for machines normally used for business, professional or trade purposes rather than personal, family or household purposes. Subject to IBM ServicePac Maintenance Service Agreement. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. Service levels are response time objectives and are not guarantees; service levels may exclude some holidays. On-site service provided after IBM attempts to resolve the problem.

For critical service requests, a service technician is scheduled to arrive at your location within two hours, four hours, or the next business day (depending on service) after remote problem determination is completed. For the 9x5x4 service, calls dispatched after 1:00pm local time can expect the service technician to arrive by the morning of the following business day. For non-critical service requests, a service technician will arrive by the end of the following business day. If a machine problem turns out to be a Customer Replaceable Unit (CRU), IBM will express ship the part to you for quick replacement. External peripherals require their own separate service coverage; they are not covered under the attached machine's ServicePac. Service activation is required immediately following purchase. For failing non-IBM machines, customer must provide replacement part unless IBM has a Technical Support Agreement with the manufacturer. Service does not cover accessories, supply items and certain parts such as batteries, frames and covers. For information on IBM ServicePac for Warranty and Maintenance Options, visit www.ibm.com/services/its/us/servicepac.html. For a Worldwide ServicePac product matrix, visit www-1.ibm.com/services/its/us/source/spacpmww.pdf.

- ⁸ For the NetVista systems without a separate graphics card, memory supports both system and video. Accessible system memory may be up to 64MB less than the amount stated, depending on video mode.

- ⁹ International Warranty Service is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.
- ¹⁰ Designed to be capable of receiving data at up to 56kbps with compatible phone line and server equipment, and transmitting data at up to 31.2kbps. Public networks currently limit download speeds to about 53kbps. Compatible phone line and server equipment required. Actual speeds vary and are often less than the maximum possible.
- ¹¹ For combination drives, maximum possible speeds only are given in the following order: CD read, CD write, CD re-write, DVD read.
- ¹² Designed for business environment; radial arm must be installed in accordance with instructions provided.
- ¹³ Asset ID allows system to be "scanned" by various radio frequency devices supplied by independent companies. Asset ID is intended for use only with radio frequency equipment that meets ANSI/IEEE C95.1 1992 RF radiation limits.
- ¹⁴ Response times may vary. May exclude some holidays.
- ¹⁵ Update Connector is available at no charge to registered NetVista customers during the limited warranty period. Line charges may apply.
- ¹⁶ IBM Embedded Security Subsystem works with optional VPN software.

- ¹⁷ A single "U", or rack unit, is 1.75" or 44.45mm.
- ¹⁸ IBM Embedded Security Subsystem requires download of security software from IBM.
- ¹⁹ Asset ID allows system-specific information to be stored in a chip inside the system; it does not have any radio frequency support.
- ²⁸ Certain Microsoft software products included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software products or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply).



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