

Personal Systems Reference IBM Netfinity 1997 to 2001 - withdrawn

September 2001 - Version 229



IBM Netfinity® A100 Web Server Appliance - withdrawn

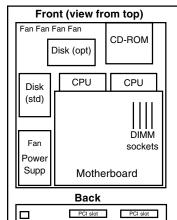
8652-6YY 2 x 9.1GB 7200 7.5ms 2 x Pentium III 256KB full spd SDRAM ECC PCI=2 1 used by SCSI 3 used 0 empty 1U rack 2 x ethernet	IBM [®] Netf	Qnty x disk / rpm / ms	Qnty x Intel® Processor MHz ¹	Memory std / max type	Bus slots	Bays	Mechanical	ethernet	Available date
	8652-6YY							2 x ethernet	May 2000

SMP support Implementation L2 cache	2-way SMP via identical processor Processor and L2 cache in Single Edge Contact Cartridge (SECC2) / two Intel Slot 1sockets on motherboard 256KB std and max / ECC / full speed / integrated in SECC2					
Memory - std / max Memory - sockets Memory - features	IGB std / 2GB max / Error Checking and Correcting (ECC) memory controller 4 sockets / 0 available (all slots occupied with 256MB DIMM) BDRAM / 100MHz / ECC DIMMs / 168-pin gold-plated DIMM 3.3 volt sockets / PC100-compliant					
SCSI disk controller SCSI connectors RAID support IDE controller Cables	Internal 68-pin (attaches 2 drop cable to SCSI disks); External: 68-pin 9 No hardware RAID standard Enhanced IDE (PIIX4E) / Ultra DMA/33 (ATA-33) support / two connections.	Adaptec® AHA-2940UW / Wide Ultra SCSI (40MB/sec) / single channel / 32-bit PCI adapter nternal 68-pin (attaches 2 drop cable to SCSI disks); <i>External:</i> 68-pin SCSI port on back of adapter (limited to one ext device) No hardware RAID standard Enhanced IDE (PIIX4E) / Ultra DMA/33 (ATA-33) support / two connectors (one ind std / one combined signal/power) 2 drop 16-bit SCSI cable on internal 68-pin port / one 1 drop IDE cable with power and signal (one drop to CD-ROM)				
Architecture / chipsets Mechanical Bays / available Control Panel	Bays / available (See diagram beloẃ): 3 bays / one 5.25" SL bay / two 3.5" SL bays / no hot-swap support					
Ethernet controllers CD-ROM / diskette Serial / parallel / USB CMBus connectors Systems mgmt	capability through the connection of both ethernet ports to the same LAN 24X-10X ⁶ CD-ROM; CAV (ATAPI); bootable; IDE / no diskette drive Serial: Two 9 pin Parallel: None USB: Two ports (not supported)					
Graphics controller Security Software	SVGA / Chips and Technology® B69000 HiQVideo accelerator / 2MB SDRAM std and max / AGP 2X Power-on password Preloaded with a version of Windows 2000 optimized for web serving, Microsoft IIS 5.0, and Netfinity Web Server Accelerator V2 (reverse proxy) / Product Recovery CD included					
Keyboard / mouse Cooling fans Power supply	None standard Six or seven fans (four in front, one in power supply, one per CPU) 150 watt / universal / auto-sensing / auto-restart support / 150 restart support / System does not support customer installation of adapter, disks, memory, processors, or any other devices that must be installed inside the server.					

IEC power card Prerequisites Monitor, keyboard/mouse for setup, rack, power distribution unit, console selector switch Ready to install System is preloaded, preconfigured, and ready to install

2 x Intel® Pentium® III 650MHz1 / 100MHz Front Side Bus

Power Distribution Unit 94G7450 Netfinity Console Selector Switch 4-port 28L0542 Netfinity Console Selector Switch 8-port 94G7445 Two-button mouse 28L3673 84-key space saver keyboard 28L3644 Preferred keyboard (black) 104-key with TrackPoint keyboard 28L3621 01K1260



Processor

Bay ① 5.25", SL 1", access, std CD-ROM Bay ② 3.5", SL 1", no access, disk Bay ③ 3.5", SL 1", no access, disk (some models)

Slot 1: fullsize, 32-bit PCI 2.1 (5v) - SCSI adapter installed

Slot 2: halfsize, 32-bit PCI 2.1 (5v)

- Stealth black
- ⇒ H 1.75" (1U) x W 19.0" x D 24.0"
- 22.5 lbs (average configuration)
- Setup Program is available by pressing F1 at startup
- SCSISelect near startup by pressing CTRL+A

 PC 98, DMI 2.0, Wired for Management Baseline 2.0, PXE
- Includes rack mounting kit
- Includes Netfinity 4000R System CD and Netfinity Manager CD

All models: Max int disk capacity: 36.4GB with two 18.2GB SL SCSI disks

LIMITED WARRANTY

- 1 year parts and labor warranty³
- IBM EasyServ depot repair (three business day average turnaround)
- No on site warranty upgrade option
- ⇒ 90-day IBM Start Up Support
- □ IBM SystemXtra®
- 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet support (www.pc.ibm.com)

運風 Netfinity® 1000 - withdrawn

IBM® Netfinity®	Mini-tower Pentium® III 600 10.1GB	Mini-tower Pentium III 650 10.1GB	F	Mini-tower Pentium III 700 I0.1GB
Type - model Disk - capacity Disk - features Rack support	8477-42Y 10.1GB EIDE / 7200 rpm / 1" high / 9.0ms / AT Not supported			8477-61Y
Avail / withdrawn date Intel® Processor Implementation Processor upgrade L2 cache (std and max)	March 2000 / December 2000 Pentium® III 600/100MHz¹ Processor and L2 cache in Single Ed No SMP / no upgrades supported 512KB / half speed / ECC / integrated in SEC	June 2000 / Deco Pentium III 650/1 ge Contact (SEC) o 256KB / full spec integrated in SEC	I 00MHz artridge in protective maded /ECC	June 2000 / December 2000 Pentium III 700/100MHz etal case / SEC plugged into Intel Slot 1 256KB / full speed / ECC / integrated in SEC
Memory - std / max Memory - sockets Memory - features Memory - support	64MB std / 768MB max 3 sockets / 2 available (all have Error SDRAM / 100MHz / ECC / 168 pin gol Supports SDRAM ECC DIMMs (32,64 registered with non-registered	ld-plated DIMM 3.3 v	olt sockets / PC100-com	pliant
Disk controller Disk support IDE cables SCSI support	Enhanced IDE (PIIX4E South Bridge) Only the IBM 10.1GB IDE disk support 2-drop IDE cable (one drop each to Conly support for internal SCSI tape be installation of other internal SCSI ada	orted / no other IDE CD-ROM and disk) / ackup with IBM SC	options supported ' a second 2-drop IDE o SI adapter (see part nu	cable ships standard
Architecture / chipsets PCI implementation Bus slots Bays / available Status LEDs	Intel 440BX AGPset / PIIX4E for EID SMC FDC37C673 Super I/O for diske One primary PCI bus PCI 2.1 (33MHz), Accelerated Graph (See diagram below): 6 bays / two 5. Five status LEDs / includes power, eth	ettè, parallel, serial, ics Port (66MHz; A0 25" HH bays (1 use	keyboard, mouse GP 2X; 533MB/sec), an d) / four 3.5" SL bay (2	d ISA slots PCI and ISA slots on riser used) / no hot-swap support
Ethernet controller Audio Audio connectors CD-ROM Diskette drive Serial / parallel / USB Systems mgmt cntrl Systems mgmt	Intel EtherExpress PRO/100B / PCI 10BaseT, 100BaseTX / full duplex / F Crystal CS4235 chip on planar / stere Stereo line in / mic in / line out (all in 40X-17X° CD-ROM / CAV (ATAPI) / b 3.5" 1.44MB diskette drive Serial: Two 9 pin / 115Kbps Paralle National Semiconductor® LM80-comp voltage (processor/power supply), cc Alert on LAN / Vital Product Data supp	82558 chip on plan PCI bus / Wake on L eo / ISA bus / FM Sy back) / software vol ootable / IDE l: One (EPP, ECP) / batible / chip to mon over removal	nar / AN® ynthesis / int speaker ume control / IEEE 1284 USB: Tv itor temperature, front	All models: Max int disk capacity: 30.3GB with three 10.1GB EIDE disks
Graphics controller	SVGA / S3 TM Trio3D / 4MB std and m DPMS, DDC2B compliant / up to 1600	ax / 100MHz SGRA	M / AGP 1X / on planar	
Security	Chassis-intrusion detection / cover ke sequence control / operation without keyboard and mouse password / more control / secure access openings (ventor)	y lock / U-Bolt suppo keyboard and mouse use disable / diskett	ort / power-on password / secure disk drive / ser e I/O control / disk I/O	I / administrator password / boot ial EEPROM with write protect / control / serial and parallel port I/O
Software	ServerGuide™ (CD-based automated Manager (system hardware mgmt sof	network operating	system installation and	
BIOS Keyboard / mouse Cooling fans Power supply Other features Slot 1: fullsize, 32-bit 1		ed mouse ocessor, disk area) rt	32MB SDRAM ECC 1 64MB SDRAM ECC 1 128MB SDRAM ECC 256MB SDRAM ECC IBM 10.1GB 7200 rpm IBM 10/20GB NS Intel IBM Fast/Wide Ultra S IBM 16/4 Token-Ring I	00MHz DIMM 01K1130 100MHz DIMM 01K1131 100MHz DIMM (registered) 01K1132 01EIDE disk 33L4958 rnal SCSI Tape Drive 01K1319 CSI Adapter 02K3454
Slot 2: fullsize, 32-bit I Slot 3: fullsize, 32-bit I Slot 4: fullsize, 16-bit I Slot 5: fullsize, 16-bit I Slot 6: fullsize, 16-bit I Slot: fullsize, 32-bit I	PCI 2.1 (3.3v/5v) SA SA	ser		CI Adapter 2 Wake on LAN 34L0701 LIMITED WARRANTY 1 year parts and labor warranty³ International Warranty Service³
CD-ROM 5.25" HH 3.5" SL diskette Mini-tower Stealth	Bay ② 5.25", HH 1.6", access, ope Bay ③ 3.5", SL 1", access, std Bay ③ 3.5", SL 1", no access, ope Bay ⑤ 3.5", SL 1", no access, std Bay ⑥ 3.5", SL 1", no access, std Bay ⑥ and ⑥ can be combined or HH 1.6" bay Penovable left side panel Perour stabilizing feet Penour Sta	en diskette n (disk only) disk (disk only) onfiguration/Setup U ress F1) in EEPRON dv Config and Powe	Interface (ACPI) 1.0 d for Management 1.1a s on diskette olications	 On site warranty All cities in all states 8 am - 5 pm Mon - Fri coverage Next day average response time On site warranty upgrade option: 24 hr / 7 day coverage, 4 hr average response time Post warranty: on site options available 90-day IBM Start Up Support IBM SystemXtra®16 24 hour / 7 day telephone 14, fax, electronic, and Internet support IBM or reseller warranty/service

IIM Netfinity® 3000 - withdrawn

IBM® Netfinity®	Mini-tower 266/66MHz Pentic	ım II 4.51GB	Mini-tower 300/66MHz Penti				
Type - model Disk - capacity Disk - features		≈ 8476-11U 4.51GB ²	Open bay	8476-16U 4.51GB	Open bay ⇒ 8476-20U None	4.51GB	
Rack support Avail / withdrawn date	Not supported May 1998 / Octob	er 1998	May 1998 / Octol	per 1998	May 1998 / April	1999	
Processor Implementation Processor upgrade L2 cache	No SMP / can upg can upgrade to P	cache in Single E rade by replacing entium II 300/66	Pentium II 300/66 Edge Contact (SEC) can g SEC into motherboard 5, 350/100, 400/100, 45 alf speed of processor /	rtridge in protective in Intel Slot 1 connection of 100, or Pentium	tor /	gged into Intel Slot 1	
Memory - std / max Memory - sockets Memory - features Memory - support	SDRAM / 100MHz	able (all have Erro :/ECC / 168 pin o	or Checking and Correct gold-plated DIMM 3.3 vo 2,64,128, 256MB) / only	lt sockets / PC100-c	er) ompliant / hardware s	crubbing of ECC errors iix reg/non-reg	
SCSI disk controller SCSI connectors RAID support IDE disk controller Cables	Internal 68 pin (atta No hardware RAII Enhanced IDE bus	aches 4 drop cabl D standard / sup smaster (PIIX4E)	ItraSCSI controller / sin e to SCSI disk) (50 pin c ports optional Adaptec) / Ultra DMA/33 (ATA-3 al 68 pin port / one 1 dro	onn not supported); AAA™-131 UltraSC 33) support / two cor	<i>External:</i> 68 pin SCS SI Array PCI Adapte Inectors on riser	I port on back of adapte or (internal or ext RAID	
Architecture / chipsets Bus slots Bays / available Status LEDs	SMC FDC37C673 PCI 2.1 (33MHz), (See diagram belo	Super I/O for dis Accelerated Graw): 6 bays / two	EIDE (Ultra DMA/33), Is skette, parallel, serial, k aphics Port (66MHz; A0 5.25" HH bays (1 used) ethernet, CD-ROM, disk	eyboard, mouse / l_. 9 GP-2x; 533MB/sec), /four 3.5" SL bay (1	O ready and ISA slots PCI a or 2 used) / no hot-sv	wap support	
Ethernet controller Audio Audio connectors CD-ROM Diskette drive Serial / parallel / USB Systems mgmt cntrl	full duplex / PCI bu Crystal CS4235 cl Stereo line in / mic 32X-14X ⁶ CD-ROI 3.5" 1.44MB diske	ntel EtherExpress PRO/100B / PCI 82558 chip on planar / 10BaseT, 100BaseTX / 36.4GB with four 9.1GB SL SCSI disks; 10K rpm disks not supported; 2X-14X6 CD-ROM / CAV (ATAPI) / bootable / IDE . 5° 1.44MB diskette drive lerial: Two 9 pin / 115Kbps Parallel: One (EPP, ECP) / IEEE 1284 USB: Two ports					
Systems mgmt	voltage (processo Alert on LAN / Vita	r/power supply), I Product Data su		al, id) / RFID disable	d .	·	
Graphics controller			B max / 100MHz SGR/ compliant / up to 1600x				
Security	control / operation password / mouse	without keyboard disable / externa	key lock / U-Bolt suppor l and mouse / secure dis al SCSI port disable / di ents and louvers) / Vital F	k drive / serial EEPR skette I/O control / c	OM with write protect : lisk I/O control / seria	/ keyboard and mouse Il and parallel port I/O	
Software	Mail Server Relea	se 5 (Windows N	ted network operating IT version) plus five clie stem hardware mgmt s	ent licenses18, Nortor	n AntiVirus, and APC	PowerChute Plus /	
BIOS Keyboard / mouse Cooling fans Power supply Other features	256KB EEPROM (IBM 104 key keybo	IBM BIOS) / Flas pard / IBM Enhan ng fans (power sud in disk area A bal / auto-sensing to-restart support S 1.0a / ISO 92	h over LAN support ced mouse upply, processor; a third by AAP partner)	Pentium II 300Ml- Pentium II 350Ml- Pentium II 400Ml- Pentium II 450Ml- Pentium III 550Ml- Pentium III 550Ml Pentium III 600Ml 32MB SDRAM EC	IZ/512KB Proc Upg IZ/512KB Proc Upg IZ/512KB Proc Upg IZ/512KB Proc Upg HZ/512KB Proc Upg HZ/512KB Proc Upg HZ/512KB Proc Upg HZ/512KB Proc Upg CC 100MHZ DIMM	10K588 10L5883 10L5884 10L5900 36L9673 33L5112 33L5106 01K1133	
Slot 1: fullsize, 32-bir Slot 2: fullsize, 32-bir Slot 3: fullsize, 32-bir Slot 4: fullsize, 16-bir Slot 5: fullsize, 16-bir Slot 6: fullsize, 16-bir Slot : fullsize, 32-bir	t PCI 2.1 (3.3v/5v) t PCI 2.1 (3.3v/5v) t ISA t ISA t ISA	·	ra SCSI adapter installe	128MB SDRAM E 256MB SDRAM E IBM ServeRAID II Advanced System	CC 100MHz DIMM CC 100MHz DIMM CC 100MHz DIMM (Ultra SCSI Adapter IS Management Adapter IS ManagementPower WARRANTY	not supported oter (ISA) 94G757	
CD-ROM 5.25" HH 3.5" SL / ⑤ / ⑥	Bay ① 5.25", HH Bay ② 5.25", HH Bay ③ 3.5", SL Bay ④ 3.5", SL Bay ⑥ 3.5", SL Bay ⑥ 3.6", SL Bay ⑥ and ⑥ can b	1.6", access, 1.6", access, 1", access, 1", access, 1", no access, 1", no access,	open or std CD-ROM open open std diskette open (disk only) std disk (disk only) - Configuration/Setup U		 Internationa On site ware All cities in 8 am - 5 pm Next day res On site ware 	Mon - Fri coverage	
	for HH 1.6" bay Removable left s Four stabilizing t		SCSISelect near startAdv Config and PowDMI 2.0PC 97	er Interface (ACPI)	1.0 24 hr / 7 day ⇒ 90-day IBM ⇒ IBM System	r coverage, 4 hr respse ⁷ Start Up Support Xtra™	
Mini-tower Stealth gray	 ⇒ Top handle ⇒ H 19.37" x W 7.8 ⇒ 33 to 38 pounds 		 Wired for Manageme Several hardcopy pub Supplier's Declaration 	lications	board, fax, e support (ww	day telephone ¹⁴ , bulleti electronic, and Internet vw.pc.ibm.com) ller warranty/service	

IEM Netfinity® 3000 (Fall 1998) - withdrawn

IBM® Netfinity®	Mini-tower 400/100MHz Pentium II Open bay	9.1GB ²	Mini-tower 450/100MHz Pentium Open bay	II 9.1GB
Type - model Disk - capacity Disk - features Rack support Avail / withdrawn date	8476-30U	8476-31U 9.1GB ·SI / 7200 rpm / 1" high / 8.5ms	8476-40U None	8476-41U 9.1GB
Processor Implementation Processor upgrade L2 cache	Intel® Pentium® II 400/100MH: Processor and L2 cache in Sin No SMP / can upgrade by replacan upgrade to Pentium II 4 512KB std / 512KB max / ECO	gle Edge Contact (SEC) cart acing SEC into motherboard Ir 50/100MHz or Pentium III 50	ntel Slot 1 CPU connecto 00/100MHz, 550/100MHz	case / SEC plugged into Intel Slot 1 r /
Memory - std / max Memory - sockets Memory - features Memory - support	64MB std / 768MB max 3 sockets / 2 available (all have SDRAM / 100MHz / ECC / 168 Supports SDRAM ECC DIMM	pin gold-plated DIMM 3.3 volt	sockets / PC100-complia	ant / hardware scrubbing of ECC errors tered; cannot mix reg/non-reg
SCSI disk controller SCSI connectors RAID support IDE disk controller Cables	Adaptec® AHA-2940uWB / W Internal 68 pin (attaches 4 drop No hardware RAID standard / Enhanced IDE busmaster (PII 4 drop 16-bit SCSI cable on in	cable to SCSI disk) (50 pin con supports optional Adaptec A X4E) / Ultra DMA/33 (ATA-3	nn not supported); <i>Exterr</i> AAA™-131 UltraSCSI Arı 3) support / two connecto	nal: 68 pin SCSI port on back of adapter ray PCI Adapter (internal or ext RAID) ors on riser
Architecture / chipsets Bus slots Bays / available Status LEDs	Intel 440BX AGPset / PIIX4E SMC FDC37C673 Super I/O PCI 2.1 (33MHz), Accelerated (See diagram below): 6 bays. Five status LEDs / includes po	for diskettè, parallel, seríal, k d Graphics Port (66MHz; AGl / two 5.25" HH bays (1 used) /	eyboard, mouse / I Ó re P-2x; 533MB/sec), and I four 3.5" SL bay (1 or 2 u	eadý ISA slots PCI and ISA slots on riser used) / no hot-swap support
Ethernet controller Audio Audio connectors CD-ROM Diskette drive Serial / parallel / USB Systems mgmt cntrl	voltage (processor/power sup	n LAN® / Alert on LAN™ r / stereo / ISA bus / FM Syntl (all in back) / software volum API) / bootable / IDE Parallel: One (EPP, ECP) / IEE 30 compatible / chip to monit ply), cover removal	hesis / int speaker e control EE 1284 USB: Two ports or temperature, front far	All models: Max int disk capacity: 72.8GB with four 18.2GB SL SCSI disks; 10K rpm disks not supported; EIDE disks not supported
Systems mgmt Systems mgmt option Graphics controller	Alert on LAN / Vital Product Da Optional Adv Sys Mgmt Adapte SVGA / S3 TM Trio3D / 4MB std	er and Power Unit / no SMART	card connector on moth	·
				or 1024x768 at 16.7M colors at 85Hz
Security	control / operation without keyl	poard and mouse / secure disk sternal SCSI port disable / dis	drive / serial EEPROM wi kette I/O control / disk I/O	Iministrator password / boot sequence ith write protect / keyboard and mouse O control / serial and parallel port I/O oard FLASH ROM
Software	Server Guide™ (CD-based au Server Release 5 (Windows N Netfinity® Manager 5.1 (system	IT version) plus five client lice	enses18, Norton AntiVirus, a	nfiguration tool), Lotus® Domino® Mail and APC PowerChute Plus / includes rerGuide
BIOS Keyboard / mouse Cooling fans Power supply Other features Slot 1: fullsize, 32-bit Slot 2: fullsize, 32-bit	256KB EEPROM (IBM BIOS)/IBM 104 key keyboard / IBM E Two or three cooling fans (pow fan may be installed in disk are 330 watts / universal / auto-ser Wake on LAN / auto-restart su Plug and play BIOS 1.0a / ISC PC Doctor Diagnostics on disk t PCI 2.1 (3.3v/5v) - Adaptec PCI t PCI 2.1 (3.3v/5v)	nhanced mouse er supply, processor; a third ea A by AAP partner) asing / oport 0 9241 part 3 enabled ette	IBM ServeRAID II Ultra	12KB Proc Úpg 36L9673 .12KB Proc Úpg 33L5112 .12KB Proc Úpg 33L5106 .00MHz DIMM 01K1133 .00MHz DIMM 01K1130 .100MHz DIMM 01K1131 .100MHz DIMM (registered) 01K1132
Slot 3: fullsize, 32-bit Slot 4: fullsize, 16-bit Slot 5: fullsize, 16-bit Slot 6: fullsize, 16-bit	t PCI 2.1 (3.3v/5v) t ISA t ISA	rd; not riser	Advanced Systems M	anagementPower Unit 94G5571 GB SL Wide Ultra SCSI Disk 01K1328 WARRANTY SERVICE SUPPORT 3 year parts and labor warranty
CD-ROM 5.25" HH 3.5" SL	Bay ® 3.5", SL 1", no acc Bay ® and ® can be combined	s, open s, open s, std diskette ess, open (disk only) ess, std disk in some models - Configuration/Setup Uti	lity at startup (press F1)	 International Warranty Service³ On site warranty all 3 years All cities in all states 8 am - 5 pm Mon - Fri coverage Next day response time On site warranty upgrade option: 24 hr / 7 day coverage, 4 hr respse⁷
/ disk/	for HH 1.6" bay Removable left side panel Four stabilizing feet	- SCSISelect near startu - Adv Config and Powe - DMI 2.0 - PC 97	r Interface (ACPI) 1.0	 ⇒ 90-day IBM Start Up Support ⇒ IBM SystemXtra® ⇒ 24 hour / 7 day telephone¹⁴, bulletin board, fax, electronic, and Internet
Mini-tower Stealth gray	 Top handle H 19.37" x W 7.87" x D 17.5 33 to 38 pounds 	2" - Wired for Managemer - Several hardcopy public - Supplier's Declaration a	cations	support (www.pc.ibm.com) ⇒ IBM or reseller warranty/service

IBM® Netfinity®	Mini-tower Pentium III 500 Open bay	Mini-tower Pentium III 500 9.1GB ²	Mini-tower Pentium III 550 Open bay	Mini-tower Pentium III 550 9.1GB	Mini-tower Pentium III 600 Open bay	Mini-tower Pentium III 600 9.1GB
Type - model Disk - capacity Disk - features Rack support Avail / withdrawn date	Not supported	, ,	≈ 8476-60U None / 8.5ms or less / SMAF June 1999 / April 2		8476-70U None Wide Ultra2 SCSI / Not supported August 1999 / July	8476-71U 9.1GB 7200 rpm / 1" / 7.5ms 2000
Processor Implementation Processor upgrade L2 cache	No SMP / can upgr	cache in Single E orade by replacing	Intel Pentium III 5 dge Contact (SEC) ca SEC into motherboard speed of processor / i	artridge in protective r I Intel Slot 1 CPU cor	Intel Pentium III 60 metal case / SEC plu nnector to supported	gged into Intel Slot 1
Memory - std / max Memory - sockets Memory - features Memory - support	SDRAM / 100MHz	able (all have Erro / ECC / 168 pin go ECC DIMMs (32,6	r Checking and Correctlorold-plated DIMM 3.3 vo 4,128, 256MB) / only 2	lt sockets / PC100-cc	ompliant / hardware s	crubbing of ECC errors can not mix registered
SCSI disk controller SCSI connectors RAID support IDE disk controller Cables	Internal 68 pin (atta No hardware RAID Enhanced IDE bus	iches 4 drop cable) standard / suppo smaster (PIIX4E) /	a SCSI (40MB/sec) / s to SCSI disk) (50 pin o orts optional Adaptec / Ultra DMA/33 (ATA-3 68 pin port / one 1 dr	conn not supported); / AAA™-131 UltraSCS 33) support / two con	<i>External:</i> 68 pin SCS I Array PCI Adapter Inectors on riser	I port on back of adpt
Architecture / chipsets PCI implementation Bus slots Bays / available Status LEDs	SMC FDC37C673 One primary PCI by PCI 2.1 (33MHz), A (See diagram below	Super I/O for disk us Accelerated Grapl w): 6 bays / two 5	DE (Ultra DMA/33), ISA cette, parallel, serial, k nics Port (66MHz; AG 5.25" HH bays (1 used thernet, CD-ROM, disk	keyboard, mouse / I ₂ 0 P-2x; 533MB/sec), a) / four 3.5" SL bay (1	nd ISA slots PCI and or 2 used) / no hot-	swap support
Ethernet controller Audio Audio connectors CD-ROM Diskette drive Serial / parallel / USB Systems mgmt cntrl Systems mgmt Systems mgmt option	full duplex / PCI bu Crystal CS4235 ch Stereo line in / mic 32X-14X° CD-ROM 3.5" 1.44MB disket Serial: Two 9 pin / National Semicono voltage (processor/ Alert on LAN / Vital	is / Wake on LAN [®] nip on planar / stei in / line out (all in / / CAV (ATAPI) / It drive 115Kbps Paralle ductor LM80-com (power supply), co Product Data supp	reo / ISA bus / FM Syn back) / software volu bootable / IDE (models sl: One (EPP, ECP) / IE patible / chip to monit over removal bort (type, model, seria	nthesis / int speaker me control s 70U and 71U have EE 1284 USB: Two for temperature, fron	72.8GB with f disks; 10K rpt EIDE disks no 40X-17X ⁶ CD-ROM ports t fan speed and opti	onal disk fan A,
Graphics controller			max / 100MHz SGRA impliant / up to 1600x1			
Security	control / operation v password / mouse	without keyboard a disable / external	y lock / U-Bolt support nd mouse / secure disk SCSI port disable / dis s and louvers) / Vital Pr	drive / serial EEPROI kette I/O control / dis	M with write protect / I k I/O control / serial	keyboard and mouse and parallel port I/O
Software	Mail Server Releas includes Netfinity®	e 5 (Windows NT Manager (system	d network operating s version) plus five clier hardware mgmt softw	nt licenses18, Norton A are) and many utilitie	AntiVirus, and APC P s in ServerGuide	
BIOS Keyboard / mouse Cooling fans Power supply Other features Slot 1: fullsize, 32-bit Slot 2: fullsize, 32-bit Slot 3: fullsize, 32-bit Slot 4: fullsize, 16-bit Slot 5: fullsize, 16-bit	IBM 104 key keybox Two or three coolining an may be installed 330 watts / universal Wake on LAN / auton Plug and play BIOS t PCI 2.1 (3.3v/5v) - / t PCI 2.1 (3.3v/5v) t PCI 2.1 (3.3v/5v) t ISA	ard / IBM Enhance g fans (power supp d in disk area A by al / auto-sensing / o-restart support S 1.0a / ISO 9241	oly, processor; a third AAP partner)	Pentium III 600MHz 32MB SDRAM ECC 64MB SDRAM ECC 128MB SDRAM EC 256MB SDRAM EC IBM ServeRAID-3H Advanced Systems Advanced Systems IBM Ultrastar 2XP 4	z/512KB Proc Upg C 100MHz DIMM C 100MHz DIMM CC 100MHz DIMM CC 100MHz DIMM (rd IB Ultra2 SCSI Adap Management Adapi ManagementPower J.51GB SL Wide Ultra D.1GB SL Wide Ultra	ter 37L6086 ter (ISA) 94G7578
Slot 6: fullsize, 16-bit Slot: fullsize, 32-bit CD-ROM 5.25" HH 3.5" SL Giskette Mini-tower		1.6", access, on 1.6", no access, on 1	erriser pen or std CD-ROM pen pen td diskette pen (disk only) td disk in some models Configuration/Setup U (press F1) in EEPRON SCSISelect near start Adv Config and Powe PC 97, DMI 2.0, Wirer PC-Doctor Diagnostic	tility at startup // up by pressing CTRL r Interface (ACPI) 1.0 d for Management 1.	⇒ 3 year parts a ⇒ International ⇒ On site warra ⇒ All cities in a ⇒ 8 am - 5 pm I ⇒ Next day ave ⇒ On site warra ≥ 4 hr / 7 day average resp ⇒ 90-day IBM S ⇒ IBM System) ⇒ 24 hour / 7 day	Ill states Mon - Fri coverage rage response time anty upgrade option: coverage, 4 hr onse? time Start Up Support
Stealth gray	⇒ 33 to 38 pounds		Several hardcopy put Supplier's Declaration	olications available	(www.pc.ibm	i.com) er warranty/service

IEM Netfinity® 3000 (Spring 2000) - withdrawn

IBM® Netfinity®	Mini-tower Pentium III 650MHz Open bay	Mini-tower Pentium III 650MHz 9.1GB ²	Mini-tower Pentium III 700MHz Open bay	Mini-tower Pentium III 700MHz 9.1GB			
Type - model Disk - capacity Disk - features Rack support Avail / withdrawn date	8476-80U None Wide Ultra2 SCSI / 7200 rp Not supported March 2000 / December 2	9	8476-90U None ART ⁵	8476-91U 9.1GB			
Processor Implementation Processor upgrade L2 cache	Intel® Pentium® III 650/10 Processor and L2 cache in No SMP / can upgrade by 256KB std and max / ECC	n Single Edge Contact (S replacing SEC into moth	erboard Intel Slot 1 CPU c	nomHz metal case / SEC plugged into Intel Slot 1 onnector to supported processor upgrades			
Memory - std / max Memory - sockets Memory - features Memory - support	3 sockets / 2 available (all SDRAM / 100MHz / ECC /	have Error Checking and 168 pin gold-plated DIMI	x I64MB std / 768MB max d Correcting memory contr M 3.3 volt sockets / PC100-) / only 256MB DIMMs are				
SCSI disk controller SCSI connectors RAID support IDE disk controller Cables	Internal 68-pin (attaches 4 No hardware RAID stands Enhanced IDE busmaster	4-drop cable to SCSI disl ard (PIIX4E) / Ultra DMA/33	B/sec) / single channel / 1 k); External: 68-pin SCSI (ATA-33) support / two co ort / one 2-drop IDE cable	port on back of adapter onnectors on riser			
Architecture / chipsets PCI implementation Bus slots Bays / available Status LEDs	One primary PCI bus PCI 2.1 (33MHz), Acceler (See diagram below): 6 b	I/O for diskettè, parallel, ated Graphics Port (66M ays / two 5.25" HH bays	serial, keyboard, mouse / Hz; AGP-2x; 533MB/sec),	and ISA slots PCI and ISA slots on riser (1 or 2 used) / no hot-swap support			
Ethernet controller Audio Audio connectors CD-ROM Diskette drive Serial / parallel / USB Systems mgmt cntrl Systems mgmt Systems mgmt option	full duplex / PCI bus Crystal CS4235 chip on p Stereo line in / mic in / line 40X-17X ⁶ CD-ROM / CAV 3.5" 1.44MB diskette driv Serial: Two 9 pin / 115Kb, National Semiconductor [®] voltage (processor/power Alert on LAN / Vital Produ	ntel EtherExpress PRO/100B / PCI 82558 chip on planar / 10BaseT, 100BaseTX / All models: Max int disk capacity: 72.8GB with four 18.2GB SL SCSI disks Crystal CS4235 chip on planar / stereo / ISA bus / FM Synthesis / int speaker ottereo line in / line out (all in back) / software volume control 0X-17X° CD-ROM / CAV (ATAPI) / bootable / IDE					
Graphics controller				nar / no sideband or split transactions / at 84Hz or 1024x768 at 16.7M colors at 85h			
Security	sequence control / operation and mouse password / mo	on without keyboard and ouse disable / external S	mouse / secure disk drive / CSI port disable / diskette	word / administrator password / boot serial EEPROM with write protect / keyboa I/O control / disk I/O control / serial and oduct Data stored in on-board FLASH ROM			
Software	Application Server R5 (Wi	ndows NT or Linux version		and configuration tool), Lotus® Domino® 9, Norton AntiVirus, and APC PowerChute y utilities in ServerGuide			
Slot 2: fullsize, 32-bit Slot 3: fullsize, 32-bit Slot 4: fullsize, 16-bit	t PCI 2.1 (3.3v/5v) t ISA	BM Enhanced mouse pays, processor, power posensing / rt support ISO 9241 part 3 enabled	32MB SDRAM EG 64MB SDRAM EG 128MB SDRAM EG 256MB SDRAM EG IBM ServeRAID-3 Advanced Systen Advanced Systen IBM Ultrastar 2XF IBM 9.1GB SL Wi	Hz/256KB Proc Upg 10K216 CC 100MHz DIMM 01K113 CC 100MHz DIMM 01K113 ECC 100MHz DIMM 01K113 ECC 100MHz DIMM (registered) 01K113 BHB Ultra2 SCSI Adapter 37L6086 Ins Management Adapter (ISA) 94G757 Ins ManagementPower Unit 94G557 P 4.51GB SL Wide Ultra SCSI Disk 01K132 P 4.1GB SL Wide Ultra SCSI Disk 01K132 Ide Ultra2 SCSI Disk 20L0553 ED Ultra2 SCSI Disk 20L0553			
Slot 5: fullsize, 16-bii Slot 6: fullsize, 16-bii Slot: fullsize, 32-bii		rboard: not riser	15W 10.2GB WIGO	LIMITED WARRANTY			
CD-ROM 5.25" HH 3.5" SL Giskette Mini-tower Stealth black	Bay ① 5.25", HH 1.6", ac Bay ② 5.25", HH 1.6", ac Bay ③ 3.5", SL 1", ac Bay ④ 3.5", SL 1", ac Bay ⑤ 3.5", SL 1", no	cess, open or std CD- cess, open cess, open cess, std diskette access, open (disk only) access, std disk in some cined el - Configuration/ (press F1) in E - SCSISelect ne - Adv Config an - PC 97, DMI 2 - PC-Doctor Dia	e models (disk only) Setup Utility at startup	I.0 ■ IBM SystemXtra®16			

IIM Netfinity® 3500 - withdrawn

IBM® Netfinity®:	Mini-tower 1 x Pentium II 233MHz Open bay	Mini-tower 1 x Pentium II 266MHz Open bay	Mini-tower 1 x Pentium II 266MHz 1 x 4.33GB	Mini-tower 1 x Pentium II 333MHz Open bay				
Type - model Disk - capacity Disk - features Rack support Avail / withdrawn date	None N/A Supported in NetBAY22 February 1998 / withdrawn ei	≫ 864420U None N/A	> 864421U 1 x 4.33GB² / 1" high / 8. Wide Ultra SCSI / 5400 rp	> 864430U 5ms None				
Processor(s) Implementation Processor upgrade L2 cache	1 x Pentium® II 233/66MHz ¹ Processor and L2 cache in Si	1 x Pentium II 266/66MHz ngle Edge Contact (SEC) of cessor / upgrade via SEC int	cartridge in protective metal ca o second motherboard Intel®	1 x Pentium II 333/66MHz ase / SEC plugged into Intel Slot 1 Slot 1 CPU connector / MPS 1.4				
Memory - std / max Memory - sockets Memory - features Memory - support	SDRAM / 66MHz / ECC / four	32MB std / 512MB max						
SCSI disk controller SCSI connectors RAID support IDE disk controller Cables	Adaptec® AHA-7895 / dual Channel A: 68 pin (attaches 4 Supports PCI RAID adapters Enhanced IDE busmaster (P 4 drop 16-bit cable on Chann	drop cable to SCSI disk); C / slot 2 has a RAIDport™ co IIX4) / Ultra DMA/33 (ATA-3	Chan B: 68 pin cable std to expense to for opt Adaptec ARC 33) support / two connectors	ternal SCSI port (50 pin conn not supp) D-11130SA-B (RAID 0,1,5) s on planar				
Bus slots Architecture / chipsets PCI implementation Bays / available Status LEDs	PCI 2.1 (33MHz), Accelerate Intel® 440LX AGPset / PIIX4 National Semiconductor® PC One primary PCI bus (See diagram below): 6 bays Five status LEDs / includes por primary PCI bus / inclu	for EIDE (Ultra DMA/33), IS 87307 Super I/O for diskette I/ two 5.25" HH bays (1 used	SA Bridge, USB / e, parallel, serial, keyboard, n d) / four 3.5" SL bay (1 or 2 us	mouse / I ₂ O ready				
Ethernet controller Audio Audio connectors CD-ROM Diskette drive Serial / parallel / USB SMART card connecto Systems management	Crystal CS4236B chip on pla Stereo line in / mic in / line ot 24X° CD-ROM / CAV (ATAPI 3.5" 1.44MB diskette drive Ser: Two 9 pin / 115Kbps P r None Optional Adv Sys Mgmt Adp a	nar / stereo / ISA bus / FM S it (all in back) / software volu) / bootable / IDE ar: One (EPP, ECP) / IEEE 1	Synthesis / int speaker ume control 284 USB: Two ports	ull duplex / PCI bus / Wake-on-LAN				
Systems mgmt cntrl	monitor voltage at ISA slot National Semiconductor® LM power supply), system cover		nip to monitor temperature, fro	ont fan speed, voltage (processor/				
Graphics controller	SVGA / Number Nine® Realit 4MB std / 4MB max 100MHz S	y 334 [®] / S3d Virge <mark>™</mark> GX2 / 2[SGRAM / 60Hz to 150Hz ver	D/3D accelerator / AGP adapte tical refresh; 35.5 to 90KHz ho	er / DPMS and DDC2B compliant / prizontal scan rate				
Security	control / operation without key	board and mouse / secure diternal SCSI port disable / dis	isk drive / serial EEPROM with kette I/O control / disk I/O cont	ninistrator password / boot sequence n write protect / keyboard and mouse trol / serial and parallel port I/O rd FLASH ROM				
Software	Lotus® Domino® Server Relea	se 4.6 (single processor edi	tion). Lotus Domino Intranet S	guration tool including license for tarter Pack, IBM AntiVirus, and APC I many utilities in ServerGuide				
	256KB in Flash EEPROM / F IBM 101 key keyboard / IBM IF our cooling fans (power sup microprocessor, adapters) 330 watts / universal / manua Wake-on-LAN / auto-restart s Plug and play BIOS 1.0a / ISO 9241 part 3 enabled / DM t AGP (3.3v) - used by AGP gr t PCI 2.1 (3.3v/5v) - Adaptec F	lash over LAN support Enhanced mouse oly, drive bay area, I switch / upport I support aphics adapter	Netfinity 233MHz Pentic Netfinity 266MHz Pentic Netfinity 333MHz Pentic 32MB SDRAM ECC DII 64MB SDRAM ECC DII 128MB SDRAM ECC DII 128MB SDRAM ECC DII 128MB SDRAM ECC DII 128MB SERVERAID II Ultra IBM ServeRAID II Ultra IBM ServeRAID II 8MB, Advanced Systems Mar Advanced Systems Mar IBM Ultrastar 2ES 4.33	um II/512KB Upgrade um II/512KB Upgrade um II/512KB Upgrade um II/512KB Upgrade MM 04K0073 04K0074 04K0075 SCSI Adapter 76H3584 76H3584 76H5401 nagement Adapter (ISA) nagementPower Unit 94G5571 GB Wide Ultra SCSI Disk 76H5815				
Slot 3: fullsize, 32-bi Slot 4: fullsize, 32-bi	t PCl 2.1 (3.3v/5v) t PCl 2.1 (3.3v/5v) t ISA or 32-bit PCl 2.1 (3.3v/5v		IBM Ultrastar 2ES 9.1G	GB Wide Ultra SCSI Disk 76H2687 76H2689 WARRANTY SERVICE SUPPORT				
CD-ROM Bay @ For Whini-tower Stealth gray H 1	0 5.25", HH1.6", access, CD-R 0 5.25", HH1.6", access, open 0 3.5", SL 1", access, open 0 3.5", SL 1", access, diske 0 3.5", SL 1", no access, disk 0 and ® can be combined 1 1.6" bay ar cooling fans ar stabilizing feet 1 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	tte en sk/open - Removable left sid - Configuration/Setup F1 at startup - SCSISelect near st - Vital Product Data s serial, id)	le panel b Utility invoked by pressing artup by pressing CTRL+A support (type, model, bwer Interface (ACPI) 1.0 ublications	 3 year parts and labor warranty³ International Warranty Service³ On site warranty all 3 years All cities in all states 8 am - 5 pm Mon - Fri coverage Next day response time On site warranty upgrade option: 24 hr / 7 day coverage, 4 hr respse⁷ 90-day IBM Start Up Support IBM SystemXtra™ 24 hour / 7 day telephone¹⁴, bulletin board, fax, electronic, and Internet support (www.pc.ibm.com) IBM or reseller warranty/service 				

IEM Netfinity® 3500 M10 - withdrawn

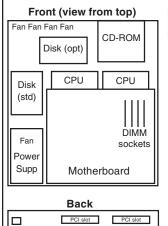
IBM® Netfinity®:	Mini-tower 1 x Pent III 500 Open bay	Mini-tower 1 x Pent III 500 1 x 9.1GB ²	Mini-tower 1 x Pent III 550 Open bay	Mini-tower 1 x Pent III 550 1 x 9.1GB	Mini-tower 1 x Pent III 600 Open bay	Mini-tower 1 x Pent III 600 1 x 9.1GB			
Type - model Disk - capacity Disk - features	8655-11Y None N/A	8655-12Y 1 x 9.1GB / 1" high Wide Ultra2 SCSI 7200 rpm / 7.5ms	8655-21Y None	8655-22Y 1 x 9.1GB / 1" high Wide Ultra2 SCSI 7200 rpm / 7.5ms	8655-31 Y None	8655-32Y 1 x 9.1GB / 1" high Wide Ultra2 SCSI 7200 rpm / 7.5ms			
Rack support Avail / withdrawn date	Not supported August 1999 / July			7200 ipini		77200 Ipiii 77.0iiio			
Intel® processor(s) Implementation Processor upgrade L2 cache	Processor and L2 of 2-way SMP via sec	x Pentium® III 500/100MHz¹							
Memory - std / max Memory - sockets Memory - features Memory - support	4 sockets / 3 availa SDRAM / 100MHz	4MB std / 1GB 128MB std / 1GB max sockets / 3 available / ECC (Error Checking and Correcting) DIMMs and ECC memory controller DRAM / 100MHz / four 168 pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / hardware scrubbing of ECC errors upports SDRAM ECC DIMMs (64, 128, 256MB) / only 256MB DIMMs are registered (buffered); can not mix reg/non-reg							
SCSI disk controller SCSI connectors RAID support IDE disk controller Cables	Channel A: 68-pin Supports PCI RAID Enhanced IDE bus	(attaches 4-drop cab) adapters / slot 2 ha master / Ultra DMA	Vide Ultra SCSI con le to disk) and a 50-p as a RAIDport ™ con /33 (ATA-33) suppo it cable to ext port o	oin (not used) <i>Chai</i> nector for optional A t / two connectors o	<i>nneİ B:</i> 68-pin cable daptec ARO-1130C on planar	A-B (RAID 0,1)			
Bus slots Architecture / chipsets PCI implementation Bays / available Status LEDs	Intel® 440BX AGPs National Semicond One primary PCI bu (See diagram below	set / PIIX4E for EIDE uctor® PC87307 Su _l us v): 6 bays / two 5.25	s Port (66MHz; AGP E (Ultra DMA/33), IS, per I/O for diskette, _I " HH bays (1 used) / ernet, CD-ROM, diske	A Bridge, USB / narallel, serial, keyb	oard, mouse / I ₂ O re	eady			
100/10Mbps ethernet Audio Audio connectors CD-ROM	Intel EtherExpress Not supported beca Stereo line in / mic 40X-17X ⁶ CD-ROM	PRO/100B / PCI 82 ause not tested / Cry in / line out (all in ba / CAV (ATAPI) / boo	558 chip on planar / ystal CS4235 chip o ack) / software volun	10BaseT, 100Base n planar / stereo / IS	A bus / FM Synthes	is / internal speaker			
Diskette drive Serial / parallel / USB Systems management	Preboot eXecution no support for ISA-	5Kbps <i>Par:</i> One (E Environment (PXE) : based Adv Systems	and Wake on LAN® s Mgmt Adapter (94G	support / 7578) or Netfinity Ad	72.8GB (4 disks :				
Systems mgmt cntrl	temperature, fan sp	peeds, voltage, syst	tible / hardware chip em cover removal /	2C bus					
Graphics controller			apter with S3 Savage 60Hz to 160Hz verti						
Security	sequence control / o keyboard and mous	operation without ke e password / mouse	lock / U-Bolt support yboard and mouse / s disable / external SC ess openings (vents a	secure disk drive / se SI port disable / disk	rial EEPROM with w ette I/O control / disk	rite protect /			
Software	Mail Server Release	e 5 (Windows NT ve	network operating system rsion) plus five client dware mgmt software	licenses18, Norton A	ntiVirus™, and APĆ				
BIOS Keyboard / mouse Cooling fans Power supply Other features	IBM 101 key keyboa Four cooling fans (p microprocessor, ada	al / mánual switch / a 3 1.0a /	mouse ay area,	Netfinity ServeRAII IBM 9.1GB Wide U IBM 18.2GB Wide	z/512KB Proc Upg z/512KB Proc Upg C DIMM 100MHz	Adapter 37L6086 20L0553 DD 20L0554			
CD-ROM Bay @ For Heart Stealth \$ 33.5" SL	t PCI 2.1 (5v) - supp t PCI 2.1 (5v) t PCI 2.1 (5v) t PCI 2.1 (5v) t ISA or 32-bit PCI 2. 5 5.25", HH1.6", acce 5 5.25". HH1.6", acce	orts optional Adapter - R.1 (5v) - City - C		IBM 18.2GB 10K V nel lity (in flash essing F1 at startup up by pressing ed Diagnostics CD 1.0-compliant t 1.1a rface (ACPI) 1.0 plogy (includes MIF vice Layer 2.0, DMI tware;	LIMITED V 3 year parts and International W On site warrant All cities in all s 8 am - 5 pm Mo Next day average	VARRANTY d labor warranty³ arranty Service³ y all 3 years states n - Fri coverage ge response time y upgrade option: verage, 4 hr se³ time rt Up Support a®.16 telephone¹⁴, fax, Internet oc.ibm.com)			

IEM Netfinity® 3500 M20 - withdrawn

IBM® Netfinity®:	Mini-tower 1 x Pentium® III Open bay	Mini-tower 1 x Pentium III 1 x 9.1GB ²	Mini-tower 1 x Pentium III Open bay	Mini-tower 1 x Pentium III 1 x 9.1GB	Mini-tower 1 x Pentium III Open bay	Mini-tower 1 x Pentium III 1 x 9.1GB
Type - model Disk - capacity Disk - features	8657-21Y None N/A	8657-22Y 1 x 9.1GB / 1" high Wide Ultra2 SCSI 7200 rpm / 7.5ms	8657-31Y	8657-32Y 1 x 9.1GB / 1" high Wide Ultra2 SCSI 7200 rpm / 7.5ms	8657-41Y None	8657-42Y 1 x 9.1GB / 1" high Wide Ultra2 SCSI 7200 rpm / 7.5ms
Rack support Avail / withdrawn date	Not supported May 2000 / Decem			7, 200 .p , 7.10		[/ _ 00 .p/
Intel® processor(s) L2 cache Implementation SMP support	Motherboard containtegrated), four DII	c / ECC / at process ns two Intel PGA37 MM sockets, 5 PCI	0 sockets (one use slots, and integrate	or and L2 cache in Flip d and one with termin	ator), one VRM soc	ay (FC-PGA) cket (one VRM
Memory - std / max Memory - sockets Memory - features Memory - support	SDRAM / 133MHz	ble / ECC (Error Ch	plated DIMM 3.3 vol	ing) DIMMs and ECC It sockets / PC133-con	memory controller npliant	
SCSI disk controller SCSI connectors RAID support IDE disk controller Cables	One 68-pin interna Supports optional F Enhanced IDE bus	l connector (attache PCI RAID adapters master / Ultra DMA	s 5-drop cable to di /33 (ATA-33) supp	CSI controller (160M isk) / no external SCS ort / one connector or e (one drop to CD-RC	I connector	64-bit 33MHz PCI 2.1
,	32-bit PCI (two PCI	slots, graphics, ethe	ernet. South Bridae	ots, SCSI controller) /		
Architecture / chipsets	ServerWorks® Ser ISA bus for Super I/	verSet III LE chip s 'O National Semicor	et / NB6635 North nductor® PC97317\	Bridge 3.0LE / IB6566 /UL (diskette, parallel,	South Bridge for II serial, keyboard, n	DE, USB, nouse)
Bays / available Status LEDs	Five status LEDs /	v): 7 bays / no hot-s includes power, ethe	ernet, CD-ROM, dis			
100/10Mbps ethernet CD-ROM / diskette Serial / parallel / USB Systems mgmt cntrl	40X-17X ⁶ CD-RON Serial: Two 9 pin	l / CAV (ATAPI) / bo <i>Parallel:</i> One (EPP	ootable / IDE , ECP) / IEEE 1284	ex / 32-bit 33MHz PCI Diskette: 3.5" 1.44MI 1 USB: Two ports (\ 2 an speeds, and volta	3 diskette drive /ersion 1.1)	ector
Graphics controller				nax / 32-bit PCI / DPM 0x1200 / 15-pin D-Su		npliant /
Security	mouse / secure dis	k drive / keyboard a	and mouse passwo	oot sequence control of ord / mouse disable / c ngs (vents and louvers	diskette I/O control	/ disk I/O control /
Software	Application Server	R5 (Windows NT or	r Linux version) plu	system installation at is five client licenses ¹⁰ rdware mgmt software	, Norton AntiVirus	™, and APC
BIOS Keyboard / mouse Cooling fans Power supply	Four cooling fans (pmicroprocessor, ad	ard / IBM Enhanced bower supply, drive	bay area,		56KB Proc Upg z/256KB Proc Upg DIMM 133MHz RD DIMM 133MHz RD DIMM 133MHz RD CCSI HDD SCSI HDD SCSI HDD 60 SCSI HDD 4160 SCSI HDD 4160 SCSI HDD 4160 SCSI HDD	IMM II 33L3125 IMM II 33L3127 00N8204 00N8205 00N8206 00N8207 00N8208 SI Controller 37L6091
Slot 1: fullsize, 32-bit Slot 2: fullsize, 32-bit	33MHz, PCI 2.1 (5v	Maximum internal	I SCSI disk capacit		AID-4M Ultra160 SC	SI Controller 37L6080
Slot 3: fullsize, 64-bit Slot 4: fullsize, 64-bit Slot 5: fullsize, 64-bit	33MHz, PCI 2.1 (5v 33MHz, PCI 2.1 (5v	145.6GB (4 disks - R	x 36.4GB) Removable left side Configuration/Setup	 panel		WARRANTY nd labor warranty ³
CD-ROM Bay 2 Bay 3 5.25" HH 3.5" SL Bay 6 Bay 6	3.5", SL 1", acce 3.5", SL 1", no a	ss, CD-HOM mss, open (no disk) ss, open - Ss, diskette ccess, open - Dccess, open Fccess, std disk - A	nemory) invoked by tartup CSISelect near sta TRL+A Diagnostics (PC-Do 2 at startup	y pressing F1 at artup by pressing ctor) by pressing nterface (ACPI) 1.0	□ International N □ On site warra □ All cities in al □ 8 am - 5 pm M □ Next day aver □ On site warra □ Year of year □ All cities in al □ Next day aver □ On site warra □ Site warra	Warranty Service ³ nty all 3 years I states Ion - Fri coverage rage response time nty upgrade option: overage, 4 hr onse ⁷ time art Up Support
Stealth Han black Han	r stabilizing feet adle grips on top and 9.37" x W 7.87" x D 92mm x W 200mm x o 46 pounds (16.8 to	18.10" : D 460mm			electronic, an support (www	y telephone ¹⁴ , fax, d Internet

IBM Netfinity® 4000R - withdrawn

IBM® Netfinity®	1U Rack 1 x Pentium III 500 1 x 9.1GB ²	1U Rack 2 x Pentium III 500 2 x 9.1GB		1U Rack 2 x Pentium III 500 2 x 9.1GB
Type - model Disk - qnty x capacity Disk - features Mechanical Rack support Avail / withdrawn date	8652-11Y 1 x 9.1GB Wide Ultra2 SCSI / 7200 rpm / 1" high / EIA 19" Rack (1U4) Rack-mount only / supported in IBM Ne September 1999 / June 2000			8652-22Y 2 x 9.1GB
Intel® processor SMP support Implementation L2 cache	1 x Pentium® III 500/100MHz¹ 2-way SMP standard wtih some models Processor and L2 cache in Single Edge 512KB std / 512KB max / ECC / half sp	e Contact Cartridge		2 x Pentium III 500/100MHz Slot 1sockets on motherboard
Memory - std / max Memory - sockets Memory - features	256MB std / 2GB max (2 sockets used) 4 sockets / 0 or 2 available (all have Er SDRAM / 100MHz / ECC / 168-pin gol	ror Checking and Cor	recting memory con	troller)
SCSI disk controller SCSI connectors RAID support IDE controller Cables	Adaptec® AHA-2940UW/B / Wide Ultra Internal 68-pin (attaches 2 drop cable to No hardware RAID standard Enhanced IDE (PIIX4E) / Ultra DMA/33 2 drop 16-bit SCSI cable on internal 68	SCSI disk); <i>External:</i> 3 (ATA-33) support / f	68-pin SCSI port on two connectors (one	back of adapter (limited to one ext device) ind std / one combined signal/power)
Architecture / chipsets Bays / available Control Panel	Intel 440GX AGPset (PCI 2.1 33MHz 3 USB / Digital® 21152 PCI-to-PCI bridge (See diagram below): 3 bays / one 5.25 Control Panel in front / includes monitor	e for two PCI slots / I7 5" SL bay / two 3.5" S	TE® IT8671F Super L bays / no hot-swap	I/O for serial, keyboard, mouse o support
Ethernet controllers Audio CD-ROM Diskette drive Serial / parallel / USB CMBus connectors Systems mgmt	2 x Intel 82559 ethernet controllers / o capability through the connection of both one internal piezo speaker 24X-10X° CD-ROM / CAV (ATAPI) / both None Serial: Two 9 pin Parallel: None USI Two external CMBus connectors for ke System Environmental Monitor / two ST MAX161 provide remote and local temp	oth ethernet ports to to otable / IDE B: Two ports (not sup beyboard, mouse, and T Micro® ST72251 mo	he same LAN ported) video / one cable s	All models: Max int disk capacity: 36.4GB with two 18.2GB SL SCSI disks td / one Console Cable Adapter std
Graphics controller	SVGA / Chips and Technology® B6900 1280x1024x256 colors at 75Hz	00 HiQVideo accelera	tor / 2MB SDRAM s	td and max / AGP 2X / up to
Security	Power-on password / administrator pas	ssword		
Software	Netfinity 4000R System CD and Netfinit	ty Manager CD		
BIOS Keyboard / mouse Cooling fans Power supply Prerequisites	2MB EEPROM (AMI® BIOS) / Flash over None standard Six or seven fans (four in front / one in pone per CPU) 150 watt / universal / auto-sensing / aut Monitor, keyboard/mouse for setup, race	power supply / to-restart support	adapter, disks, medevices that must be Factory or depot in 128MB SDRAM B 256MB SDRAM B 512MB SDRAM B 9.1GB Wide Ultra	upport customer installation of mory, processors, or any other pe installed inside the server. stalled features: ECC 100MHz DIMM ECC 100MHz DIMM ECC 100MHz DIMM 2 SCSI Disk (7200 rpm) a2 SCSI Disk (7200 rpm)



Bay @ 5.25", SL 1", access, std CD-ROM Bay @ 3.5", SL 1", no access, disk Bay @ 3.5", SL 1", no access, disk (some models)

Slot 1: fullsize, 32-bit PCl 2.1 (5v) - SCSI adapter installed Slot 2: halfsize, 32-bit PCl 2.1 (5v)

Stealth black

⇒ H 1.75" (1U) x W 19.0" x D 24.0"

⇒ 11.75 (10) x w 19.0 x D 24.0
 ⇒ 22.5 lbs (average configuration)
 ⇒ Setup Utility at startup (press DEL) in EEPROM
 ⇒ SCSISelect near startup by pressing CTRL+A
 ⇒ PC 98, DMI 2.0, Wired for Management Baseline 2.0, PXE

Includes rack mounting kit

Includes Netfinity 4000R System CD and Netfinity Manager CD
 Diagnostics (PC-Doctor) on Netfinity 4000R System CD (press 1 after boot)

LIMITED WARRANTY

- 1 year parts and labor warranty³
- □ IBM EasyServ depot repair (three) business day average turnaround)
- No on site warranty upgrade option
- ⇒ 90-day IBM Start Up Support
- ✓ IBM SystemXtra®
- 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet support (www.pc.ibm.com)

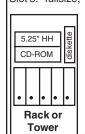
IEM Netfinity® 4000R (Spring 2000) - withdrawn

IBM® Netfi	Qnty x disk / rpm / ms	Qnty x Intel® Processor MHz¹		Memory std / ma		Barra	Macha::!	al ather-st	Available
Type-model 8652-51Y	1 x 9.1GB ² 7200 7.5ms	1 x Pentium® III	standard 256KB	256MB / 2GB	PCI=2	Bays 2 use	d 1U rack	ethernet ethernet	Ma
8652-61Y	Wide Ultra2 SCSI 2 x 9.1GB 7200 7.5ms	650/100 2 x Pentium III	full spd	SDRAM ECC 512MB / 2GB	1 used by St PCI=2	3 use	d 1U rack	ethernet	2000 Ma
8652-62Y	Wide Ultra2 SCSI 2 x 9.1GB 7200 7.5ms	650/100 2 x Pentium III	full spd 256KB	SDRAM ECC 1GB / 2GB	1 used by St PCI=2	3 use	d 1U rack	ethernet	2000 Ma
8652-63Y	Wide Ultra2 SCSI 2 x 9.1GB 7200 7.5ms	650/100 2 x Pentium III	full spd 256KB	SDRAM ECC 2GB / 2GB	1 used by So PCI=2	3 use	d 1U rack	ethernet	2000 Ma
8652-64Y	Wide Ultra2 SCSI 2 x 18.2GB 7200 7.5ms	650/100 2 x Pentium III	full spd 256KB	SDRAM ECC 2GB / 2GB	1 used by St PCI=2	3 use	,	ethernet	2000 Ma
8652-31Y	Wide Ultra2 SCSI 1 x 9.1GB 7200 7.5ms	650/100 1 x Pentium III	full spd 256KB	SDRAM ECC 256MB / 2GB	1 used by St PCI=2	CSI 0 em	,	ethernet	2000 Ma
8652-41Y	Wide Ultra2 SCSI 2 x 9.1GB 7200 7.5ms	750/100 2 x Pentium III	full spd 256KB	SDRAM ECC 512MB / 2GB	1 used by So	CSI 1 em	pty	ethernet	2000 Ma
8652-42Y	Wide Ultra2 SCSI 2 x 9.1GB 7200 7.5ms	750/100 2 x Pentium III	full spd 256KB	SDRAM ECC 1GB / 2GB	1 used by St		pty	ethernet	2000 Ma
	Wide Ultra2 SCSI	750/100	full spd	SDRAM ECC	1 used by St	CSI 0 em	pty		2000
8652-43Y	2 x 9.1GB 7200 7.5ms Wide Ultra2 SCSI	2 x Pentium III 750/100	256KB full spd	2GB / 2GB SDRAM ECC	PCI=2 1 used by So		pty	ethernet	Mai 2000
8652-44Y	2 x 18.2GB 7200 7.5ms Wide Ultra2 SCSI	2 x Pentium III 750/100	256KB full spd	512MB / 2GB SDRAM ECC	PCI=2 1 used by S0	CSI 3 use		ethernet	Mai 2000
Processor SMP suppo Implementa L2 cache Memory - s Memory - s	ort 2-way SMP vi ation Processor and 256KB std and std / max 256MB, 512M	tel® Pentium® III a identical proces I L2 cache in Sino d max / ECC / full B, 1GB, or 2GB s or 2 available (mo	ssor gle Edge (speed / in std / 2GB	Contact Cartridgentegrated in SEC	e (SECC2) / CC2 cking and Co	two Intel Slo	CC) memory o	controller	
Memory - f	eatures SDRAM / 100	MHz / ECC DÌMN	<i>I</i> ls / 168-p	oin gold-plated D	DIMM 3.3 vol	t sockets / I	PC100-compli		
SCSI disk of SCSI conn RAID supp IDE control Cables	lectors Internal 68-pin bort No hardware I ller Enhanced IDE	A-2940UW / Wide (attaches 2 drop RAID standard E (PIIX4E) / Ultra SCSI cable on int	cable to S DMA/33	CSI disks); <i>Exte</i> (ATA-33) suppo	<i>rnal:</i> 68-pin 9 rt / two conn	SCSI port or ectors (one	n back of adap ind std / one	combined signa	al/power)
Architecture Mechanica Bays / avai Control Pai	l EIA 19" Řack ilable (See diagram	GPset (PCI 2.13 21152 PCI-to-PC (1U4) / rack-moul below): 3 bays / c in front / includes	OI bridge f nt only / s one 5.25"	for two PCI slots upported in IBM SL bay / two 3.5	: / ITE® ÌT867 Netfinity Rac 5" SL bays / i	71F Super I ck products no hot-swap	/O for serial, k support	keyboard, mous	se ´
Ethernet co CD-ROM / Serial / par CMBus cor Systems m	capability thro diskette 24X-10X° CD- allel / USB Serial: Two 9 nnectors Two external of System Environments System Environmen	9 ethernet contrough the connecting ROM; CAV (ATA) pin Parallel: Nor CMBus connecto onmental Monitor de remote and lo	on of both PI); boota ne <i>USB:</i> rs for key / two ST I	n ethernet ports ble; IDE / no dis Two ports (not board, mouse, a Micro® ST72251	to the same kette drive supported) and video / o	LAN ne cable st	d / one Consc	ole Cable Adap	ter std
Graphics c Security		and Technology							
Software Keyboard /		sword R System CD, Dia	agnostic C	D, and Netfinity	Manager CE	System do adapter, di	es not suppor sks, memory,	t customer insta processors, or talled inside the	allation of any other
Cooling far Power sup Prerequisit	ns Six or seven fa ply 150 watt / univ card es Monitor, keybo	ans (four in front, versal / auto-sens oard/mouse for seit, console selectors	ing / auto- etup, rack,	restart support /	IEC power	Power Dist Netfinity Co Netfinity Co Two-buttor	ribution Unit onsole Selecto onsole Selecto n mouse	or Switch 4-port or Switch 8-port	94G7450 28L0542 94G7445 28L3673
Front	t (view from top)	Bay ① 5.25", SL 1	", access		M	Preferred k	ce saver keyb ceyboard (blac	k)	28L3644 28L3621
Fan Fan Fa	CD-ROM E	Bay ② 3.5", SL 1 Bay ③ 3.5", SL 1 Slot 1: fullsize 32	", no acc	ess, disk (some		,	th TrackPoint		01K1260
Disk (std) Fan Power Supp	CPU CPU CDU CDU CDU CDU CDU CDU CDU CDU CDU CD	Slot 2: halfsize, 32 Stealth black H 1.75" (1U) x V 22.5 lbs (average Setup Program SCSISelect nea PC 98, DMI 2.0 Includes rack m	V 19.0" x ge configuis availabler startup to Wired for counting k	Downward of the by parts and tably warranty IBM EasyServ depot repair (three business day average turnaround) IBM EasyServ depot repair (three business day average turnaround) No on site warranty upgrade operation of the by pressing CTRL+A 90-day IBM Start Up Support IBM SystemXtra IBM SystemXtra				nrranty ³ air age ade option port 14, fax,	
		All models: Max 6.4GB with two 18							

IBM® Netfinity®: Type-model Qty x F	Processor	Memory	Disk	SCSI controller	Mechanical	S	Slots x bays		-swap k bays	Ethernet	Available date
8656-2RY 1 x Pentiul 8656-1RY 1 x Pentiul 8656-3RY 1 x Pentiul 8656-4RY 1 x Pentiul 8656-5RY 1 x Pentiul	m III 733/133 m III 800/133 m III 866/133	128MB 128MB 128MB 128MB 128MB	None None None	2 x Ultra160 2 x Ultra160 2 x Ultra160 2 x Ultra160 2 x Ultra160	3U rack 3U rack 3U rack	5 sl 5 sl 5 sl	lots x 7 bays lots x 7 bays lots x 7 bays lots x 7 bays lots x 7 bays	3 ho 3 ho 3 ho	ot-swap ot-swap ot-swap ot-swap ot-swap	10/100 ethernet 10/100 ethernet 10/100 ethernet 10/100 ethernet 10/100 ethernet	April 2000 April 2000 May 2000 May 2000 June 2000
Intel® processor(s) L2 cache Implementation SMP support	1 x Pentium® I 256KB std and Motherboard c one VRM sock 2-way SMP via	d max / Eo ontains tw cet (one V	CC / at pr vo Intel S RM integ	ocessor speed lot 1 connecto rated), four DI	d / processor rs for SECC MM sockets	r an 2 ca , PC	nd L2 cache in artridges (ope CI slots, and ir	Singlen Slot In Slot Integrat	e Edge (1 used l ted subs	systems	
Memory - std / max Memory - sockets Memory - features Memory - support	128MB std / 4	GB max available / MHz / fou	' ECC / (a r 168-pin	all have Error (Checking an	nd C	Correcting (EC	CC) me 3-com	emory co	ontroller) / non-inte	rleaved
SCSI disk controller SCSI channels IDE controller / cable Disk - capacity Disk - bays	64-bit PCI / no Two internal 16 SCSI Channel Single Primary None standard	hardware 6-bit chan A: 16-bit IDE / one d / suppo	e RAID stanels / botanels / botanels / connectanels	andard th internal (no VD cable from tor on planar / 10000 rpm dis	external) controller to one 1 drop I ks / 1 backp	ba DE lane	ickplane <i>Cha</i> cable (CD-R0 e / SAF-TE 1.	<i>nnel B</i> OM) 0-com	: 16-bit pliant	Jltra 160/m / on plar 68-pin interface (no like 5600, 8500R	
Mechanical Rack support Bus slots (see below) Chip set Bays / available Status LEDs	EIA 19" Rack Rack systems PCI 2.1 (33MH 32-bit PCI (two ServerWorks®	(3U ⁴) x 20 supported Iz) / dual p PCI slots ServerS ssor and S below): 7	6-inch deed in IBM Noeer PCI / s, graphic set III LE congression (Compared to the congression of the congres	ep Netfinity Racks / 64-bit PCI (th s, ethernet, So chip set / NB6 National Sem ree hot-swap	ree PCI slot buth Bridge) 635 North B iconductor® bays	s, S ridg PC	SCSI controlle ge 3.0LE / IB6 97317VUL (di	r) / 566 Soiskette	All I 218 outh Brice, paralle	models: Max int dis .4GB² with six 36.40 dge for IDE, USB, IS I, serial, keyboard,	GB SL disks GA bus for
10/100 ethernet CD-ROM / diskette Serial / parallel / USB Graphics controller	AMD® Am79CS 24X-10X6 CD-F Serial: Three S	975 / on p ROM / mu 9-pin (one	planar / 10 ultisession of for Mgm	DBaseT, 100B n / IDE interfact t Processor)	aseTX / full e / bootable Parallel: Or	du ; <i>D</i> ne (plex / RJ-45 o Diskette: 3.5" 1 (EPP, ECP) / I	connection .44ME	ctor / 2 fr 3 diskette 284 <i>U</i>	ont LEDs	
Security	Power-on pass and reset butto read/write acce	on / unatte	ended boo	ot / selectable	boot / syste	er's ms	name / hinge mgmt security	ed bez y (usei	el to cov r log-in p	rer disk bays, power bassword, read-only	r button, or
Systems managemen Diagnostics Software	t Netfinity Adva POST, and au Diagnostics L board error LEI ServerGuide™	nced Systo recove ED Panel Ds / diagr	stem Mgr ery function I (under conostics in I M installat	nt Processor, ons / monitors over) / Light Pa ROM by press tion and config	on planar / temperature th Diagnosti ing F2 at sta uration utilitie	e, fa ics™ rtup es),	ans, and powe	er sup _ED ma or no® Ap	plies ap to faili plication	gmt / allows diagno ing component / syst Server R5 (Window cludes Netfinity Dire	em rs NT or
Keyboard / mouse Power supply	None standard Std: one 270 v front access / voltage-sensing	d vatt hot-sv redundan	wap; <i>Max:</i> it with two	: two 270 watt	hot-swap / es / worldwid		Pentium III 66 Pentium III 73 Pentium III 86 Pentium III 86	67/133 33/133 00EB/1 66/133	MHz/256 MHz/256 133MHz/ MHz/256	6KB Proc Upg 6KB Proc Upg 256KB Proc Upg 6KB Proc Upg	00N7949 00N7943 10K2338 19K4630 19K4631
Fans Prerequisites	Three (two in n (any single fan failure signals each power su Monitor, disk, r	can fail v Diagnosti ıpply	vhile mair c LED an	ntaining cooling d Mgmt Proce	g) / PFA / fa ssor / fan in	1 :	Pentium III 10 128MB SDRA 256MB SDRA 512MB SDRA 1GB SDRAM Netfinity 270V	GHz/13 AM EC AM EC AM EC I ECC W Hot-	33MHz/2 C DIMM C DIMM C DIMM DIMM 13 Swap Re	6KB Proc Upg 256KB Proc Upg 1 133MHz (RDIMM I 1 133MHz (RDIMM I 1 133MHz (RDIMM II) 83MHz (RDIMM II) edundant Pwr Supp 5t-Swap Exp Kit	19K4640 33L3123 33L3125 33L3127 33L3129
Slot 1: fullsize, 32-bit Slot 2: fullsize, 32-bit Slot 3: fullsize, 64-bit Slot 4: fullsize, 64-bit Slot 5: fullsize, 64-	t 33MHz PCI 2.1 t 33MHz PCI 2.	I (5v), Bu: I (5v), Bu: I (5v), Bu: I (5v), Bu: OM Vap	s A s B s B	without scree Configuration SCSISelect CTRL+A Several ha Predictive f memory, predictive f memory, predictor car of an immir Rack: H 5. 44 to 62 pc Stealth blace	pe drives) to ews ows ows ows at startup t near startul rdcopy publi ardiure analys rocessors, V conjunction n alert the sy nent compon 25" x W 16.3 bunds ck color	sna lity i p by cationsis of RM with with ystement 3" x	es (CD-ROM, ap in and out invoked by y pressing ions on disk option ls, power sup th Netfinity em administra t failure	is, plies, tor	D S year warr consider the last of the la	LIMITED WARRAI ar parts and labor li arnty ³ rnational Warranty S site warranty all 3 ye ities in all states n - 5 pm, Mon-Fri co t business day resp site warranty upgrac hr x 7 day coverage sponse ⁷ time hr / 7 day coverage sponse ⁷ time (in elig cations) Start Up Support our x 7 day telephor tronic, and Internet	mited Service ³ ears verage onse time le options: e, 4 hour e, 2 hour lible

Bays 6 through 7 support two HH devices or an optional Netfinity 3-Pack Ultra160 Hot-Swap Expansion Kit to convert these two bays into three hot-swap disk bays

IBM® Netfinity®:	Tower 1 x Pentium II 350 Open bay	Rack 1 x Pentium II 350 Open bay	Tower 1 x Pentium II 400 Open bay	Rack 1 x Pentium II 400 Open bay	Tower 1 x Pentium II 450 Open bay	Rack 1 x Pentium II 450 Open bay
Type - model Mechanical Disk - capacity Disk - bays Rack support Avail / withdrawn date	8659-12Y Tower None / supports 72 Hot-swap / no trays Rack systems supp	8659-1SY EIA 19" Rack (5U ⁴ 00-10000 rpm disks included (disks ship orted in Netfinity Net	8659-22Y Tower w/ trays) / 80-pin SC	8659-2SY EIA 19" Rack (5U) A-2 connectors / 1 ba Rack	8659-31Y Tower	8659-3RY EIA 19" Rack (5U)
Intel® processor(s) L2 cache Implementation Processor upgrade SMP support	Motherboard conta Can upgrade to P	max / ECC / half spe ins two Intel Slot 1 ce	onnectors for SEC o 450/100MHz, or Pei	ocessor and L2 cache cartridge in protective ntium III 500/100, 5	e metal case / open s 50/100MHz (can not	tact (SEC) cartridge slot used by terminato upgrade to 600MHz
Memory - std / max Memory - sockets Memory - features Memory - support	4 sockets / 3 availa SDRAM /100MHz /	nax / non-interleaved ble (all have Error Cl four 168-pin gold-pl ed SDRAM ECC DI	hecking and Correct ated DIMM 3.3 volt s	sockets / PC100-com	er) npliant / hardware sc	rubbing of ECC errors
SCSI disk controller SCSI connectors and cables RAID support IDE controller / cable	SCSI Channel A: 1 SCSI Channel B: 1 Supports PCI Serve	95 / dual channel Wi 6-bit 68-pin cable fro 6-bit 68-pin cable to 6 RAID adapters (ROSB3) South Brid	om controller to backp external SCSI port	olane / caḃle has ano	ther drop for device in the state of the sta	n open 5.25" bay
Bus slots (see below) Architecture / chipsets Bays / available Status LEDs	Reliance Champic National Semicond (See diagram below	dual peer PCI / ISA sl on 2.0 LE chip set / N uctor® PC97317VUL v): 8 bays / two 5.25 ncludes power, ether	lorth Bridge (ĆNBZC . Super I/O for disket " HH bays (1 used) /	DLE), Open South Bri tte, parallel, serial, k one diskette bay / fiv	45.5GB ² with dge (ROSB3), Chili Feyboard, mouse / I ₂ Ce hot-swap bays	five 9.1GB SL disks Pakora (IO APIC)
10/100 ethernet CD-ROM Diskette drive Serial / parallel / USB Graphics controller	32X-14X ⁶ CD-ROM 3.5" 1.44MB diskett Serial: Three 9-pin	on planar / 10BaseT, // multisession / IDE i de drive / dust cover / (one for Mgmt Proce de / S3® Trio64V2 GX (interface / 1.6" HH / t diskette cable has a essor) <i>Parallel:</i> One	ootable second drop with car e (EPP, ECP) / IEEE	rd edge connector 1284 <i>USB:</i> Two po	orts
Security	selectable boot / se	d / privileged access p cure mode (disables urity (user log-in pass	power on and reset b	outton, keyboard, mo	use) / U-bolt capabilit	zy /
Systems management Diagnostics Software Upgradeable EEPROMs	POST, and auto re- Light Path diagnost ServerGuide™ (CE NT version) plus fiv	covery functions / mo ics / operator diagnos D-ROM installation an e client licenses ¹⁸ , Ar	onitors temperature, stic panel / system bo d configuration utilitie tiVirus software, an	disks, fans, power s pard error LEDs / diag es), Lotus® Domino® d APC PowerChute	upply nostics in ROM Server Mail Server R Plus / includes Netfir	elease 5 (Windows
Keyboard / mouse Power supply	Std: one 350 watt built-in redundand worldwide / voltage Max: second 175 v	01-key keyboard / IBN (consists of two 175-vey (dependent upon co-sensing / auto-restate vatt (second is required exceeded) / fans in	vatt modules) / configuration) / urt; red for redundancy	Pentium II 400MI Pentium II 450MI Pentium III 500M Pentium III 550M	Hz/512KB Proc Upg Hz/512KB Proc Upg Hz/512KB Proc Upg Hz/512KB Proc Upg IHz/512KB Proc Upg CC DIMM 100MHz (10L5883 10L5884 10L5900 36L9673 33L5112 registered) 01K7241
Fans Other features	Two fans / easy rer LED and Mgmt Pro	e exceeded) / rans in moval / PFA / fan fail icessor / power supp S / I2C diagnostic bu	ure signals Diagnos lly fans	tic 128MB SDRAM 256MB SDRAM I 512MB SDRAM I Netfinity 5000 Ra Netfinity 5000 To Netfinity 175 wat IBM SCA-2 SL 9.		(registered) 01K7262 registered) 01K8043 registered) 01K7263 ion Kit 10L6972 sion Kit 10L7006 Supply 10L7007 SCSI Disk 01K8010
Slot 1: fullsize, 16-bit Slot 2: fullsize, 16-bit Slot 3: fullsize, 32-bit Slot 4: fullsize, 32-bit	ISA or 32-bit PCI 2. PCI 2.1 (5v), Bus 1 PCI 2.1 (5v), Bus 1	1 (5v), Bus 1 - Rer - Qui - Qui	movable, easy releas movable, easy releas ck release adapter sl ck release motherboa nfiguration/Setup Utili	e front cover ots (no screws)	⇒ 3 year parts and ⇒ International W	arranty Service ³



Slot 5: fullsize, 32-bit PCI 2.1 (5v), Bus 0 Bay ① 5.25", HH 1.6" access, open Bay ② 5.25", HH 1.6" access, CD-ROM Bay ③ 3.5", SL 1", access, diskette Bay ④ 3.5", SL 1", access, hot swap Bay ⑥ 3.5", SL 1", access, hot swap Bay ⑥ 3.5", SL 1", access, hot swap Bay ⑦ 3.5", SL 1", access, hot swap Bay ⑥ 3.5", SL 1", access, hot swap Bay ⑧ 3.5", SL 1", access, hot swap

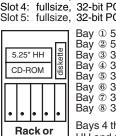
Bays 4 through 8 support 5 SL disks or 2 HH and 1 SL disk

⇒ Tower: H 17.0" x W 8.6" x D 23.8" ⇒ Rack: H 8.5" x W 17.3" x D 22.7" ⇒ 48.5 to 63.9 pounds

- Configuration/Setup Utility invoked by pressing F1 at startup
- SCSISelect near startup by pressing CTRL+A Vital Product Data support (type, model,
- serial, id)
- Hardware enabled for ISO 9241, Part 3 Several hardcopy publications
- Supplier's Declaration available
- Predictive failure analysis on disk options, memory, processors, VRMs, and fans in conjunction with Netfinity Manager can alert the system administrator of an imminent component failure
- On site warranty all 3 years
- All cities in all states
- 8 am 5 pm, Mon- Fri coverage
- Next business day response time
- On site warranty upgrade options:
 - 24 hr / 7 day coverage, 4 hour response7 time
 - 24 hr / 7 day coverage, 2 hour respse7 time (in eligible locations)
- 90-day IBM Start Up Support
- → IBM SystemXtra®,1
- 24 hour / 7 day telephone¹⁴, bulletin board, fax, electronic, and Internet (www.pc.ibm.com) support IBM or reseller warranty/service

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IBM® Netfinity®:	Tower 1 x Pentium III 500 Open bay	Rack 1 x Pentium III 500 Open bay	Tower 1 x Pentium III 550 Open bay	Rack 1 x Pentium III 550 Open bay	Tower 1 x Pentium III 600 Open bay	Rack 1 x Pentium III 600 Open bay
Type - model Mechanical Disk - capacity Disk - bays Rack support Avail / withdrawn date	Hot-swap / no trays	8659-4RY EIA 19" Rack (5U ⁴) 200-10000 rpm disks included (disks ship ported in Netfinity Net 2000	w/ trays) / 80-pin S0	/ Rack		·
Intel® processor(s) SMP support Implementation Processor upgrade L2 cache	Motherboard contai	00/100MHz ¹ cond identical proces ns two Intel Slot 1 cor - or 2-way Pentium B max / ECC / half spe	nnectors for SEC car III 500 or 550MHz (1	EC into second mot tridge in protective m not 600MHz)	etal case / open slot	connector / MPS 1.4 used by terminator h Pentium 600MHz
Memory - std / max Memory - sockets Memory - features Memory - support	4 sockets / 3 availa SDRAM /100MHz	max / non-interleave able (all have Error C / four 168-pin gold-pl red SDRAM ECC DII	Checking and Correct ated DIMM 3.3 volts	sockets / PC100-com		ubbing of ECC errors
SCSI disk controller SCSI connectors and cables RAID support IDE controller / cable	on planar / 32-bit 3 SCSI Channel A: SCSI Channel B: 1 Supports PCI Serve	95 / dual channel Wi 3MHz PCI 2.1 / two of 16-bit 68-pin cable fro 16-bit 68-pin cable to eRAID adapters (ROSB3) South Brid	channels (one interna om controller to back external SCSI port	al/one external) ´ plane / cable has an	91GB ² with five other drop for device	,
Bus slots (see below) Architecture / chipsets Bays / available Status LEDs	Reliance Champic National Semicond (See diagram below	dual peer PCI / ISA s on 2.0 LE chip set / N uctor® PC97317VUL w): 8 bays / two 5.25 includes power, ether	North Bridge (ĆNBZC Super I/O for diskett " HH bays (1 used)	DLE), Open South Br te, parallel, serial, ke / one diskette bay / f	yboard, mouse / I.O ive hot-swap bays	
10/100 ethernet CD-ROM Diskette drive Serial / parallel / USB Graphics controller	32X-14X ⁶ CD-ROM 3.5" 1.44MB diskett Serial: Three 9-pin	on planar / 10BaseT, // multisession / IDE in the drive / dust cover / o (one for Mgmt Proces o / S3® Trio64V2 GX (o	nterface / 1.6" HH / b diskette cable has a s ssor) <i>Parallel:</i> One	ootable second drop with card (EPP, ECP) / IEEE	d edge connector 1284 <i>USB:</i> Two po	rts
Security	selectable boot / se	d / privileged access p cure mode (disables p urity (user log-in pass)	power on and reset b	utton, keyboard, mou	ise) / U-bolt capability	//
Systems management Diagnostics Software UpgradeableEEPROMs	POST, and auto rec Light-Path Diagno ServerGuide™ (CD version) plus five cli	covery functions / mo pstics / operator diag D-ROM installation and ient licenses ¹⁸ . AntiVir	nitors temperature, on the constitution of the configuration utilities and AP a	disks, fans, power sun board error LEDs / (s), Lotus® Domino® N C PowerChute Plus /	ipply diagnostics in ROM Mail Server Release 5 includes Netfinity Ma	5 (Windows NT
Keyboard / mouse Power supply	Std: one 350 watt built-in redundanc voltage-sensing / a Max: optional seco redundancy when	01-key keyboard / IBN (consists of two 175-w y (dependent upon co uto-restart and 175 watt (second 175 watts are exceed	ratt modules) / nfiguration) / worldwi is required for	Pentium III 550M de// Pentium III 600M 64MB SDRAM E 128MB SDRAM 256MB SDRAM	MHz/512KB Proc Upg MHz/512KB Proc Upg MHz/512KB Proc Upg ECC DIMM 100MHz (ECC DIMM100MHz ECC DIMM100MHz ECC DIMM100MHz	33L5112 33L5106 (registered) 01K7241 (registered)01K7262 (registered)01K8043
Fans Other features	LED and Mgmt Pro	moval / PFA / fan failt ocessor / power suppl S / I2C diagnostic bus	y fans	Netfinity 5000 R Netfinity 5000 To Netfinity 175 wa Netfinity 18.2GB Netfinity 36.4GB	ack-to-Tower Conver ower-to-Rack Conver tt Redundant Power 10K-3 Wide Ultra SC 10K-3 Wide Ultra SC op Internal SCSI cab	Sion Kit 10L6972 Sion Kit 10L7006 Supply 10L7007 CSI HS SL 36L9807 CSI HS HH 36L9808
Slot 1: fullsize, 16-bit Slot 2: fullsize, 16-bit Slot 3: fullsize, 32-bit Slot 4: fullsize, 32-bit Slot 5: fullsize, 32-bit	ISA or 32-bit PCI 2.1 PCI 2.1 (5v), Bus 1 PCI 2.1 (5v), Bus 1	1 (5v), Bus 1 - Re - Qu - Qu - Se	emovable, easy releasemovable, easy releasick release adapter click release motherbetup Utility is available at startur. Diagnost	se front cover slots (no screws) oard removal e by pressing	LIMITED \ ⇒ 3 year parts and ⇒ International Wa ⇒ On site warrant	arranty Service ³



Bay ① 5.25", HH 1.6" access, open
Bay ② 5.25", HH 1.6" access, CD-ROM
Bay ③ 3.5", SL 1", access, hot swap
Bay ③ 3.5", SL 1", access, hot swap
Bay ⑥ 3.5", SL 1", access, hot swap
Bay ⑥ 3.5", SL 1", access, hot swap
Bay ⑦ 3.5", SL 1", access, hot swap
Bay ⑦ 3.5", SL 1", access, hot swap
Bay ⑧ 3.5", SL 1", access, hot swap

Bays 4 through 8 support 5 SL disks or 2 HH and 1 SL disk

⇒ Tower: H 17.0" x W 8.6" x D 23.8" ⇒ Rack: H 8.5" x W 17.3" x D 22.7" ⇒ 48.5 to 63.9 pounds

- F1 at startup; Diagnostics (PC Doctor) by pressing F2 at startup (both in EEPROM) SCSISelect near startup by pressing
- CTRL+A
- Vital Product Data support (type, model, serial, id)
- Hardware enabled for ISO 9241, Part 3
- Several hardcopy publications
- Supplier's Declaration available
- Predictive failure analysis on disk options, memory, processors, VRMs, and fans in conjunction with Netfinity Manager can alert the system administrator of an imminent component failure
- All cities in all states
- 8 am 5 pm, Mon- Fri coverage Next business day average
- response time
- On site warranty upgrade options:
- 24 hr / 7 day coverage, 4 hour average response⁷ time
 24 hr / 7 day coverage, 2 hour
- average response⁷ time (in eligible locations) 90-day IBM Start Up Support
- → IBM SystemXtra® 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet
- (www.pc.ibm.com) support IBM or reseller warranty/service

Tower

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IDM® Notfinity®.	Tower	Rack	Tower	Rack		
IBM® Netfinity®:	Open bay	Open bay	1 x Pentium III 700 Open bay	Open bay		
Type - model Mechanical Disk - capacity Disk - bays Rack support Avail / withdrawn date	Hot-swap / no trays Rack systems supp	oorted in Netfinity Ne	Tower	8659-8RY EIA 19" Rack (5U ⁴) CA-2 connectors / 1 b Rack	ackplane / SAF-TE 1.0-compliant	
Intel® processor(s) SMP support Implementation Processor upgrade L2 cache	2-way SMP via se Motherboard contai Support for second	1 x Pentium® III 650/100MHz¹				
Memory - std / max Memory - sockets Memory - features Memory - support	4 sockets / 3 avails SDRAM /100MHz	/ four 168-pin gold-p	Checking and Correc		er) bliant / hardware scrubbing of ECC errors	
SCSI disk controller SCSI connectors and cables RAID support IDE controller / cable	on planar / 32-bit 3 SCSI Channel A: SCSI Channel B: Supports PCI Serv	3MHz PCI 2.1 / two of 16-bit 68-pin cable from 16-bit 68-pin cable to eRAID adapters	external SCSI port	al/one external) Éplane / cable has and	All models: Max int disk capacity: 91GB² with five 18.2GB SL disks ther drop for device in open 5.25" bay	
Bus slots (see below) Architecture / chipsets Bays / available Status LEDs	Reliance Champio National Semicond (See diagram below	PCI 2.1 (33MHz) / dual peer PCI / ISA slots (8.33MHz) / no hot-swap PCI slots Reliance Champion 2.0 LE chip set / North Bridge (CNBZOLE), Open South Bridge (ROSB3), Chili Pakora (IO APIC) / National Semiconductor® PC97317VUL Super I/O for diskette, parallel, serial, keyboard, mouse / I₂O ready (See diagram below): 8 bays / two 5.25" HH bays (1 used) / one diskette bay / five hot-swap bays Ten status LEDs / includes power, ethernet, security, disk, processor(s), POST, unattended				
10/100 ethernet CD-ROM Diskette drive Serial / parallel / USB Graphics controller	32X-14X ⁶ CD-ROM 3.5" 1.44MB diskett Serial: Three 9-pin	/ multisession / IDE i te drive / dust cover / one for Mgmt Proce	nterface / 1.6" HH / bo diskette cable has a s ssor) <i>Parallel:</i> One	ootable econd drop with card (EPP, ECP) / IEEE 12	ke on LAN® / RJ-45 connector / 3 LEDs edge connector 284 <i>USB:</i> Two ports 024x768 at 256 colors at 85Hz	
Security	selectable boot / se	cure mode (disables	power on and reset b	utton, keyboard, mous	tower only) / unattended boot / se) / U-bolt capability / ack) / unattended start mode	
Systems management Diagnostics Software UpgradeableEEPROMS	t Netfinity Advance POST, and auto re Light-Path Diagno ServerGuide™ (CE Linux version) plus	d System Mgmt Proc covery functions / mo stics™ / operator dia b-ROM installation and five client licenses¹9,	ressor / on planar / pro ponitors temperature, or agnostic panel / systed d configuration utilitie AntiVirus software, ar	ovides remote console disks, fans, power sup om board error LEDs / s), Lotus® Domino® Ap dd APC PowerChute I	and mgmt / allows diagnostic, reset, oply diagnostics in ROM oplication Server R5 (Windows NT or Plus / includes Netfinity Manager, others	
Keyboard / mouse Power supply	Std: one 350 watt of built-in redundance voltage-sensing / a Max: optional second		vatt modùles) / nfiguration) / worldwid is required for	Pentium III 700/1 64MB SDRAM E 128MB SDRAM E 256MB SDRAM E 512MB SDRAM E	00MHz/256KB Proc Upg 10K2164 00MHz/256KB Proc Upg 10K2165 CC DIMM 100MHz (registered) 01K7241 ECC DIMM100MHz (registered)01K7262 ECC DIMM100MHz (registered)01K8043 ECC DIMM100MHz (registered)01K7263 ECC DIMM100MHz (registered)01K7263 ck-to-Tower Conversion Kit 10L6972	
Fans Other features	Two fans / easy rel	moval / PFA / fan fail ocessor / power supp S / I2C diagnostic bus	ure signals Diagnosti ly fans S	Netfinity 5000 To Netfinity 175 watt Netfinity 18.2GB Netfinity 36.4GB	wer-to-Rack Conversion Kit Redundant Power Supply 10K-3 Wide Ultra SCSI HS SL 10K-3 Wide Ultra SCSI HS HH 36L9808 p Internal SCSI cable 36L9636	
Slot 1: fullsize, 16-bit	ISA or 32-bit PCL2	1 (5v) Rus 1 - R	emovable, easy relea	se left side panel	I IMITED WADDANTY	



Bay ① 5.25", HH 1.6" access, open
Bay ② 5.25", HH 1.6" access, CD-ROM
Bay ③ 3.5", SL 1", access, hot swap
Bay ③ 3.5", SL 1", access, hot swap
Bay ⑥ 3.5", SL 1", access, hot swap
Bay ⑥ 3.5", SL 1", access, hot swap
Bay ⑦ 3.5", SL 1", access, hot swap
Bay ⑦ 3.5", SL 1", access, hot swap
Bay ⑧ 3.5", SL 1", access, hot swap

Bays 4 through 8 support 5 SL disks or 2 HH and 1 SL disk

⇒ Tower: H 17.0" x W 8.6" x D 23.8" ⇒ Rack: H 8.5" x W 17.3" x D 22.7" ⇒ 48.5 to 63.9 pounds

- Removable, easy release left side panel
 Removable, easy release front cover
- Quick release adapter slots (no screws)
- Quick release motherboard removal Setup Utility is available by pressing
- F1 at startup; Diagnostics (PC Doctor) by pressing F2 at startup (both in EEPROM) SCSISelect near startup by pressing CTRL+A
- Vital Product Data support (type, model, serial, id)
- Hardware enabled for ISO 9241, Part 3
- Several hardcopy publications
- Supplier's Declaration available

Predictive failure analysis on disk options, memory, processors, VRMs, and fans in conjunction with Netfinity Manager can alert the system administrator of an imminent component failure

LIMITED WARRANTY

- 3 year parts and labor warranty³
- ← International Warranty Service
- On site warranty all 3 years
- All cities in all states
- 8 am 5 pm, Mon- Fri coverage Next business day average response time
- On site warranty upgrade options: • 24 hr / 7 day coverage, 4 hour
- average response⁷ time
 24 hr / 7 day coverage, 2 hour
- average response⁷ time (in eligible locations) 90-day IBM Start Up Support
- □ IBM SystemXtra®
- 24 hour / 7 day telephone14, fax, electronic, and Internet (www.pc.ibm.com) support
- IBM or reseller warranty/service

Rack or

Tower

Stealth gray

Tower	Dook	Tower	Dook
			Rack 1 x Pentium III 733MHz
Open bay	Open bay	Open bay	Open bay
Six hot-swap / 80-pin SCA Rack systems supported in	-2 connectors / common to n IBM NetfinityRacks / kit a	ray wiṫh EXP200 and later	systems like 5600, 8500R
256KB std and max / ECC Motherboard contains two one VRM socket (one VRM	/ at processor speed / pro Intel Slot 1 connectors for Integrated), four DIMM s	SECC2 cartridges (open ockets, PCI slots, and into	Single Edge Cartridge (SECC2) Slot 1 used by terminator), egrated subsystems
			I Slot I CFO connector
SDRAM / 133MHz / four 1	68-pin gold-plated DIMM	3.3 volt sockets / PC133-	
			0MB/sec) / Ultra 160/m / on planar /
Two internal 16-bit channe	ls / both internal (no exter	nal)	nel R: 16-hit 68-nin interface (not used)
Single Primary IDE (ROSB	(4) South Bridge / one con		, ,
		PCI slots, SCSI controller)	All models: Max int disk capacity: 218.4GB ² with six 36.4GB SL disks / 32-bit PCI (two PCI slots,
ServerWorks® ServerSet®	™ III LÉ chip set / NB6635	North Bridge 3.0LE / IB69	566 South Bridge for IDE, USB, ISA bus for
(See diagram below): 10 k	pays / three 5.25" HH bays	s (1 used by CD-ROM) / o	ne diskette bay / six hot-swap bays
40X-17X ⁶ CD-ROM / multis Serial: Three 9-pin (one fo	session / IDE interface / 1. or Mgmt Processor) Para	6" HH / bootable; <i>Diskette</i> allel: One (EPP, ECP) / IEI	e: 3.5" 1.44MB diskette drive / dust cover EE 1284
power button, and reset bu	itton (tower only) / unatter	ided boot / selectable boo	and lockable front door to cover disk bays, t / systems mgmt security (user log-in
Diagnostics LED Panel (usystem board error LEDs /	under cover) / Light-Path [diagnostics in ROM by pre	Diagnostics™ provides an L ssing F2 at startup for PC-	_ED map to failing component / Doctor
Linux version) plus five clie sBIOS (remote), diagnostics	nt licenses ¹⁹ , AntiVirus sof s (remote), and Mgmt Prod	tware, and APC PowerChi cessor Pentium III 667/	ute Plus / includes Netfinity Director, others /133MHz/256KB Proc Upg 00N7949
Tower only: IBM 101-key Std: one 250 watt hot-swa with optional Exp Kit 37L68	keyboard / IBM mouse (bop; <i>Max:</i> three 250 watt ho	th black) t-swap ower fans in Pentium III 800/ Pentium III 800/ 128MB SDRAM 256MB SDRAM 512MB SDRAM	/133MHz/256KB Proc Upg 00N7943 /133MHz/256KB Proc Upg 10K2338 /133MHz/256KB Proc Upg 19K4630 I ECC DIMM 133MHz RDIMM II 33L3123 I ECC DIMM 133MHz RDIMM II 33L3125 I ECC DIMM 433MHz RDIMM II 33L3125
fan failure signals Diagnos fan in each power supply	tic LÉD and Mgmt Proces	Netfinity 250W Netfinity Media	CC DIMM 133MHz RDIMM II 33L3129 Hot-Swap Redundant Pwr Supply 33L3760 Bay Conversion Kit 10K2340 er Supply Expansion Kit (3 conn) 37L6881
		se (rack)	
a 33MHz PCI 2.1 (5v), Bus A a 33MHz PCI 2.1 (5v), Bus E a 33MHz PCI 2.1 (5v), Bus E a 33MHz PCI 2.1 (5v), Bus E a 35", SL 1", access, how a 3.5", Access, how a 4.5", Access, how a 4.5", Access, how a 4.5", Access, how a 4.5", Access, how a 4.5"	Quick release action of an imminent of action of a control of the	dapter slots (no screws) bles devices (CD-ROM, ives) to snap in and out etup Utility invoked by tartup r startup by pressing by publications e analysis on disk options, sors, VRMs, power suppl unction with Netfinity rt the system administrato component failure x W 8.6" x D 26.0"	 ⇒ 3 year parts and labor warranty³ ⇒ International Warranty Service³ ⇒ On site warranty all 3 years ⇒ All cities in all states ⇒ 8 am - 5 pm, Mon- Fri coverage ⇒ Next business day average response time ⇒ On site warranty upgrade options: • 24 hr / 7 day coverage, 4 hour average response⁷ time • 24 hr / 7 day coverage, 2 hour
	8658-11Y Tower None standard / supports Six hot-swap / 80-pin SCA Rack systems supported ir April 2000 / December 200 1 x Pentium® III 667/133M 256KB std and max / ECC Motherboard contains two one VRM socket (one VRM 2-way SMP via second id Planned upgrade to faster 128MB std / 4GB max 4 sockets / 3 available / E SDRAM / 133MHz / four 1 Supports registered SDRA Adaptec® AHA-7899 / dua 64-bit PCI / supports IBM 5 Two internal 16-bit channe SCSI Channel A: 16-bit 68 Single Primary IDE (ROSB one 1 drop IDE cable (CD- PCI 2.1 (33MHz) / dual peg graphics, ethernet, South E ServerWorks® ServerSet® Service Processor and Su (See diagram below): 10 to Operator Information Par AMD® Am79C975 / on plar 40X-17X6 CD-ROM / multis Serial: Three 9-pin (one fo SVGA / PCI 2.1 bus / S3®: Power-on password / admi power button, and reset bu password, read-only or rea t Netfinity Advanced Syste POST, and auto recovery Diagnostics LED Panel (t system board error LEDs ServerGuide™ (CD-ROM) Linux version) plus five clie sBIOS (remote), diagnostics on motherboard can be up Tower only: IBM 101-key Std: one 250 watt hot-swa with optional Exp Kit 37L66 system board error LEDs ServerGuide™ (CD-ROM) Linux version) plus five clie sBIOS (remote), diagnostics on motherboard can be up Tower only: IBM 101-key Std: one 250 watt hot-swa with optional Exp Kit 37L66 system board error LEDs ServerGuide™ (CD-ROM) Linux version) plus five clie sBIOS (remote), diagnostics on motherboard can be up Tower only: IBM 101-key Std: one 250 watt hot-swa swith optional Exp Kit 37L66 system board error LEDs ServerGuide™ (CD-ROM) Linux version) plus five clie sBIOS, sL 1", access, hoi 3.5", SL 1", access, hoi	1 x Pentium® III 667MHz Open bay 8658-11Y Tower None standard / supports 7200-10000 rpm disks / 1 Six hot-swap / 80-pin SCA-2 connectors / common to Rack systems supported in IBM NetfinityRacks / kit a April 2000 / December 2000 1 x Pentium® III 667/133MHz¹ 256KB std and max / ECC / at processor speed / prd Motherboard contains two Intel Slot 1 connectors for one VRM socket (one VRM integrated), four DIMMs 2-way SMP via second identical processor / upgrac Planned upgrade to faster Intel processor will be planted by the plan	1 x Pentium* III 667MHz Open bay B658-11Y Tower Server

IEM Netfinity® 5100 (Spring 2000) - withdrawn

IBM® Netfinity®: Type-model Qnty	x Processor	Memory Disk	SCSI controller	Mechanical	Slots x bays	Hot -swap disk bays	ethernet	Available date
8658-31Y 1 x Pentiu 8658-3RY 1 x Pentiu 8658-41Y 1 x Pentiu 8658-4RY 1 x Pentiu 8658-51Y 1 x Pentiu 8658-5RY 1 x Pentiu	um [®] III 800/133 um III 800/133 um III 866/133 um III 866/133 um III 933/133	128MB None 128MB None 128MB None 128MB None 128MB None 128MB None	2 x Ultra16 2 x Ultra16 2 x Ultra16 2 x Ultra16 2 x Ultra16	Tower 5 5U rack Tower 5 5U rack Tower Tower	5 slots x 10 bays 5 slots x 10 bays	6 hot-swap 6 hot-swap 6 hot-swap 6 hot-swap 6 hot-swap	10/100 ethernet 10/100 ethernet 10/100 ethernet 10/100 ethernet 10/100 ethernet	May 2000 May 2000 May 2000 May 2000 June 2000 June 2000
Intel® processor(s) L2 cache Implementation SMP support Processor upgrades	Motherboard con one VRM socket 2-way SMP via s	nax / ECC / at p tains two Intel ((one VRM intel econd identical	orocessor speed Slot 1 connecto grated), four Dli Il processor / u	d / processor rs for SECC MM sockets, ograde via S	and L2 cache in S cartridges (open PCI slots, and inte ECC2 into second	Slot 1 used begrated substance Slot 1 CPU	ysterminator), ystems connector	
Memory - std / max Memory - sockets Memory - features		ilable / ECC (a					ntroller) / non-interle red SDRAM ECC D	
SCSI disk controller SCSI channels IDE controller / cable Disk - capacity Disk - bays	64-bit PCI / supportion internal 16-bit SCSI Channel A: Single Primary ID one 1 drop IDE concession None standard /	orts IBM Serve it channels / bo 16-bit 68-pin I E (ROSB4) So able (CD-ROM supports 7200 -pin SCA-2 cor	RAID adapters oth internal (no LVD cable from outh Bridge / one 10000 rpm dis	(no hardwar external) controller to e connector ks / 1 backp	e RAID standard) backplane <i>Chann</i> on planar /	el B: 16-bit	Itra 160/m / on plans 68-pin interface (not models: Max int dis 8.4GB² with six 36.4	used) sk capacity:
Mechanical Rack support Bus slots (see below) Chip set Bays / available	Tower or EIA 19 Rack systems su PCI 2.1 (33MHz) graphics, etherne ServerWorks® S Service Processo	" Rack (5U ⁴) pported in IBM / dual peer PCl t, South Bridge erverSet III™ L or and Super I/0	/ 64-bit PCI (th e) / no hot-swap E chip set / NE National Sem	ree PCI slots slots 36635 North iconductor®	s, SCSI controller) / Bridge 3.0LE / IB65 PC97317VUL (disk	′ 32-bit PCI († 566 South Br ette, parallel	ack to tower convers two PCI slots, idge for IDE, USB, I , serial, keyboard, n ay / six hot-swap ba	SA bus for nouse)
10/100 ethernet CD-ROM / diskette Serial / parallel / USB Graphics controller	40X-17X ⁶ CD-RO Serial: Three 9-p	M / multisession in (one for Mgr	on / IDE interfac nt Processor)	e / 1.6" HH / <i>Parallel:</i> Or	ne (EPP, ÉCP) / IEI	e: 3.5" 1.44M EE 1284 <i>U</i> :	B diskette drive / du	sion 1.1)
Security	power button, and	d reset button (tower only) / ur	attended bo			front door to cover ngmt security (user l	
Systems mgmt Diagnostics Software	POST, and auto Diagnostics LED system board error	recovery function of the control of	ons / monitors cover) / Light Pa ostics in ROM b ation and config nses ¹⁹ , AntiViru	temperature th Diagnosti by pressing F uration utilitie s software,	e, fans, and power cs™ provides an LE 2 at startup for PC- es), Lotus® Domino® Pentium III 80	supplies D map to faili Doctor Application 0/133MHz/25	gmt / allows diagnos ng component / Server R5 (Windows 66KB Proc Upg 66KB Proc Upg	
Keyboard / mouse Power supply	Tower only: IBM Std: one 250 wa with optional Exp supplies / worldw each power supp	tt hot-swap; <i>Ma</i> Kit 37L6881 / i ide / voltage-se	ax: three 250 wa redundant with	att hot-swap two power	Pentium III 93 Pentium III 10 128MB SDRA 256MB SDRA 512MB SDRA	3/133MHz/25 iHz/133MHz/ M ECC DIMN M ECC DIMN M ECC DIMN	JOHN THOS DAY JOHN THOS THOS JOHN THOS THOS JOHN THOS THOS JOHN TH	19K4631 x) 19K4640 33L3123 33L3125 33L3127
Fans Prerequisites	Two (fan in rear, fan failure signals fan in each powe Monitor, disk, net	s Diagnostic LÉ r supply	D and Mgmt Pr	ocessor /	Netfinity 5Ux2 Netfinity 250W Netfinity Media	4D Tower-to- / Hot-Swap F a Bay Conve	Rack Kit Redundant Pwr Supp	10K2340
5.25" HH 5.25" HH CD-ROM	it 33MHz PCI 2.1 it 33MHz PCI 2.1 it 33MHz PCI 2.1 it 33MHz PCI 2.1 it 33MHz PCI 2.1 @ 3.5", SL 1", @ 3.5", SL 1", @ 3.5", SL 1", @ 3.5", SL 1", @ 3.5", SL 1",	(5v), Bus A (5v), Bus B (5v), Bus B (5v), Bus B access, diskett access, hot sw access, hot sw access, hot sw access, hot sw access, open access, open access, CD-RC bort 6 SL disks s via SCA-2 Id 9 support 3.5	Quick rele Rail syste diskette, t without se Configura pressing CTRL+A Operator Operator predictive memory, and fans Director co of an imn Tower: H Story Stealth b All non-he	ease adapter menables of ape drives) to ape drives) to the first at startup ect near startup ect near startup processors, in conjunction and alert the ninent compound 116.8" x W 8.6" x W 16.2.7 pounds	tup by pressing Panel (in front) ysis on disk option VRMs, power support with Netfinity system administrationent failure 8.6" x D 26.0" 8" x D 24.8" ys use rails	⇒ 3 yew wara ⇒ Inte ⇒ On ⇒ All ⇒ 8 au ⇒ Nex ⇒ On o. S., cor or lice ⇒ IBN ⇒ 24 I	LIMITED WARRA parts and labor li ranty ³ ranty ³ site warranty all 3 ye cities in all states m-5 pm, Mon-Fri cov t business day resp site warranty upgrad 4 hr x 7 day coverag esponse ⁷ time 4 hr x 7 day coverag esponse ⁸ time (in elige totations) I Start Up Support nour x 7 day telepho ctronic, and Internet	erage oonse time de options: e, 4 hour lible

IBM® Netfinity®:	Rack 1 x Pentium II 350/100 open bay	Tower / NetBAY3 1 x Pentium II 350/100 open bay	Rack 1 x Pentium II 400/10 open bay	Tower / NetBAY3 00 1 x Pentium II 400/100 open bay
Type - model Mechanical Rack / conversion Disk - capacity Disk - bays Avail / withdrawn date	None standard	8660-11U Tower I IBM Netfinity Rack products / ki d (disks ship w/ trays) / 80 pin SC		rack to tower or tower to rack splanes (bank) / SAF-TE 1.0 compliant
Processor(s) / L2 cache Processor upgrade(s) Processor Card L2 cache - features	Upgrade to two-way identic Upgrade to four-way identic Processor Card contains to	Pentium II or Pentium III process cal Pentium II Xeon™ or Pentium cal Pentium II Xeon or PIII Xeon s	sors (Processor Card of III Xeon Slot 2 CPUs (v Slot 2 CPUs (with Netfi DIMM sockets, PCI-to	p-PCI bridge, two I2C thermal monitors
Mem - std / max / type Memory - sockets Memory - features Memory - support	4 sockets / 3 available (all h SDRAM / 100MHz / four 16		g memory controller) ockets / PC100-complia	ant / hardware scrubbing of ECC errors d (buffered); can not mix reg/non-reg
SCSI controller / RAID Adapter vendor / chip Cache Channels Connectors SCSI cabling IDE controller / cabling	IBM / ServeRAID II / on mot 4MB std/max / write-througl Two channels (internal) / ea Each channel: 1 internal (1 16-bit cable from ServeRAI	ach uses Adaptec AIC-7880P 6-bit) / no external connector, but	54.6GB with six 9.1Gl 234.6GB with optiona 3 external knockouts fo SCSI cable included to	ternal disk capacity: B SL HS Wide Ultra SCSI disks; Il EXP10 in NetBAY3 w/ ten 18GB disks or optional cable from internal connector o support devices in two open left bays
Architecture / chip sets Bus slots Bays / available	IBM PCI-to-PCI Bridge (27 NS PC97317VUL Super I/(7 slots available: 4 hot-swa PCI adapt 10 bays total: 6 hot-swa	-82353); four hot-swap PCI slots D / PCI 2.1 (33MHz) / I ₂ O ready up PCI slots ¹⁰ with power and att ers); <i>replace or add;</i> separated by up disk bays / three 5.25" HH bay	off secondary bus; all of the condary bus; all of the condary bus insulative plastic dividence of the condary bus; all of the	
Ethernet controller CD-ROM / diskette Serial / parallel / USB Graphics controller	AMD Am79C971 / on plana 32X-14X ⁶ CD-ROM / IDE ir Serial: Three 9 pin (one for	ar / 10BaseTX / full d hterface / bootable; <i>Diskette</i> 3.5" or Mgmt Processor) <i>Parallel:</i> C	luplex / PCI bus / Wak 1.44 MB diskette drive One (EPP, ECP) / IEEE	outers, UPS) / supports 2 more NetBAY e-on-LAN / RJ-45 connector / 3 LEDs / diskette cable has a second drop E 1284
Security	selectable boot / secure mo		outton, keyboard, mous	(tower only) / NetBAY3 bezel lock / e) / diskette, mouse, CD-ROM disable ack) / unattended start mode
Systems management Diagnostics Serviceability Software	processor) / on planar / pro Light Path Diagnostics Pa Slide out shuttle drawer f ServerGuide™ (CD-ROM i Lotus® Domino® Application version) plus five client licer	ote Mgmt Processor (service by ides remote console and mgmt anel providing LED map to failing p or Proc Card, planar, and I/O adpinstallation and configuration utiliting Server Release 5 (Windows NT nses ¹⁸ , Norton AntiVirus, and APC is Netfinity [®] Manager and others	128MB SDRAM 1 256MB SDRAM 1 Pentium II 350MH Pentium III 500MH Pentium III 550MH Netfinity Upg Kit fo	00MHz ECC DIMM 01K802 00MHz ECC DIMM 01K802 00MHz ECC DIMM (register) 01K804 1z/512KB Proc Upg 10L588: 1z/512KB Proc Upg 36L967: 1z/512KB Proc Upg 36L967: 1z/512KB Proc Upg 33L511: 01K804:
Upgradeable EEPROMs Keyboard / mouse Power supply Fans Other features	ServeRAID II EEPROMs o Tower: IBM 101 key keyb Std: one 400 watt hot-swa Requires minimum of one / Universal (voltage sensing Three hot-swap redundar		Netfinity Four-Way Pentium III Xeon Pentium III Xeon Pentium III Xeon Stall Pentium III Xeon Pentium III Xeon Pentium III Xeon Pentium III Xeon Netfinity 400W Ho	y Processor Upgrade Kit / 28L101-500MHz/512KB Proc Upg 33L505-500MHz/1MB Proc Upg (not stfinity Four-Way Proc Upg Kit 33L510-550MHz/512KB Proc Upg* 33L510-550MHz/1MB Proc Upg* 33L510-54 in Four-Way Proc Upg Kit st-Swap Redundant Power II 01K795-03K931
		O lbs Slot 2: fullsize, 32-bit PC Slot 3: fullsize, 32-bit PC Slot 4: fullsize, 32-bit PC Slot 5: fullsize, 32-bit PC Slot 6: fullsize, 32-bit PC Slot 7: fullsize, 16-bit IS/s ** secondary PCI bus ** secondary PCI bus ** Setup Program is available startup; Diagnostics (PC F2 at startup Cockable hinged, removable Removeable top cover a	el 2.1, primary PCI bus al 2.1	WARRANTY SERVICE SUPPORT 3 year parts and labor warranty³ International Warranty Service³ On site warranty all 3 years All cities in all states 8 am - 5 pm, Mon- Fri coverage Next business day response time On site warranty upgrade options: 24 hr / 7 day coverage, 4 hour response¹ time 24 hr / 7 day coverage, 2 hour response¹ time 14 hr / 7 day coverage, 2 hour response¹ time (in eligible locates) 90-day IBM Start Up Support IBM SystemXtra™ 24 hour / 7 day telephone¹⁴, bulletin board, fax, electronic, and Internet (www.pc.ibm.com/server) support IBM or reseller warranty/service

IBM [®] Netfinity [®]	Tower / NetBAY3 1 x Pentium II 400 open bay	Rack 1 x Pentium II 400 open bay	Tower / NetBAY3 1 x Pentium II 450 open bay		Tower / NetBAY3 1 x Pentium II 450 open bay	
Type - model Mechanical Rack / conversion Disk - capacity Disk - bays Avail / withdrawn date	Rack systems supp None standard / si Hot-swap / no trays	8660-4SU EIA 19" rack (8U ⁴) orted in IBM Netfinity upports 10K rpm disk included (disks ship May 1999	Rack products / kits	CA-2 connectors / 1 k	ack to tower or tower	
Intel® processor / L2 Processor upgrade(s) Processor Card L2 cache - features	2 way SMP via to in Upgrade to two-way Upgrade to four-wa Processor Card cor	0/100MHz¹ / 512KB dentical Pentium II or y identical Pentium II y identical Pentium II ntains two Slot 1's, 44 max / ECC / 1/2 spe	Pentium III process Xeon™ or Pentium Xeon or PIII Xeon \$ 10BX Host Bridge, 4	ors (Processor Card II Xeon Slot 2 CPUs Slot 2 CPUs (with No DIMM sockets, PCI	I contains two Intel S (with Netfinity Upg letfinity Four-Way Pro to-PCI bridge, two I	Kit for Pent II Xeón) c Upg Kit) 2C thermal monitor
Mem - std / max / type Memory - sockets Memory - features Memory - support	4 sockets / 3 availa SDRAM / 100MHz	std / 1GB max / ECC ble (all have Error Cl / four 168 pin gold-pl CC DIMMs (64,128,2	necking and Correct ated DIMM 3.3 volt :	ing memory controllesockets / PC100-cor	npliant / hardware sc	rubbing of ECC error
SCSI controller / RAID Adapter vendor / chip Cache Channels Connectors SCSI cabling IDE controller / cabling	IBM / ServeRAID II. 4MB std/max / write Two channels (inter Each channel: 1 int 16-bit cable from Se	CI RAID / dual channown on motherboard / PC -through or write-bacl nal) / each uses Adapernal (16-bit) / no exterveRAID II to backplaroller / one drop IDE constitution	CI primary bus A Stee AIC-7880P Bernal connector, but Sane / two drop 16-bit	54.6GB with six 9.1 234.6GB with option 3 external knockouts SCSI cable included	GB SL HS Wide Ultrinal EXP10 in NetBA	a SCSI disks; /3 w/ ten 18GB disk: m internal connecto
Architecture / chip sets Bus slots Bays / available	IBM PCI-to-PCI Bri NS PC97317VUL S 7 slots available: 4 h PC 10 bays total: 6 h	et / PIIX4E 82371EB dge (27-82353); four Super I/O / PCI 2.1 (3 not-swap PCI slots 10 CI adapters); replace not-swap disk bays / etBAY3 on bottom (3	hot-swap PCI slots of 3MHz) / I2O ready with power and attending and attending the second states of the second sec	off secondary bus; a tention indicator lig insulative plastic div s (1 used) / one 3.5"	Il other PCI slots/dev I hts (optical sensors iders / 2 PCI slots / 1 SL bay (diskette) / se	vices off primary bus control power to slo ISA slot (see below e below
Ethernet controller CD-ROM / diskette Serial / parallel / USB Graphics controller	32X-14X ⁶ CD-ROM Serial: Three 9 pin	on planar / 10Base / IDE interface / boo of (one for Mgmt Procently bus / S3® Trio64	otable; <i>Diskette</i> 3.5" essor) <i>Parallel:</i> C	1.44 MB diskette dr ne (EPP, ECP) / IE	ive / diskette cable h EE 1284 <i>USB:</i> Tw	as a second drop o ports
Security	selectable boot / sec	d / administrator pass cure mode (disables p rrity (user log-in pass	power on and reset b	utton, keyboard, mo	use) / disketté, mous	e, CD-ROM disable
Systems management Diagnostics Serviceability Software	processor) / on plantight Path Diagno Slide out shuttle diserverGuide™ (CD Lotus® Domino® Apversion) plus five cli	d Remote Mgmt Pronar / provides remote stics Panel providing lrawer for Proc Card, 0-ROM installation anyplication Server Releent licenses ¹⁸ , Norton includes Netfinity [®] M	console and mgmt LED map to failing pa planar, and I/O adp d configuration utilitie ase 5 (Windows NT AntiVirus, and APC	128MB SDRAM 256MB SDRAM Pentium II 400M Pentium II 450M Pentium III 550M Netfinity Upg Kii	IOOMHz ECC DIMM 100MHz ECC DIMM 100MHz ECC DIMM 11Hz/512KB Proc Upo	M (register) 01K804 g 10L588 g 10L590 g 36L967 g 33L5112 (2-way) 01K804
Upgradeable EPROMs Keyboard / mouse Power supply Fans Other features	BIOS (remote), dia ServeRAID II EEPF Tower: IBM 101 k Std: one 400 watt Requires minimum Universal (voltages Three hot-swap re cover / each fan un LED and Mgmt Pro Plug and play BIOS	gnostics (remote), Mg ROMs on motherboar ey keyboard / IBM mo hot-swap; Max: two of one / second is re- sensing) / fans in eac dundant fans / varia ique / PFA / fan failui cessor / power suppl 6 / I2C diagnostic bus	gmt Processor, and d can be upgraded buse (both black) by 400 watt hot-swaldundant / tool-free insule by speed / under to be signals Diagnosticy fan	Netfinity Four-W Pentium III Xeon Pentium III Xeon Pentium III Xeon Stall Pentium III Xeon Pentium III Xeon Pentium III Xeon *only suppon Netfinity 400W I	/ay Processor Upgran 500MHz/512KB Pro 500MHz/12KB Pro 550MHz/512KB Pro 550MHz/512KB Pro 550MHz/512KB Pro 550MHz/1MB Processor in Four-Way Processor in Four-Way Profed in Four-Way Profeding From 1500MHz/1MB Processor in Four-Way Profeding Processor in Four-Way Professor in Four-Way Prof	de Kit 28L101. oc Upg 33L505. i Upg 33L505. oc Upg (not oc Upg Kit) 33L511. oc Upg* 33L510. i Upg* 33L510. oc Upg Kit oc Upg Kit t Power II 01K795
⇒ Towerdim: H 20.9 ⇒ Rack dimen: H 14" Rack or Tower	x W 17.3" x D 25.6"; 8 Black co ACPI 1.0 Orange of labels inchet-swale	35 to 120 lbs Slot 2: Slot 3: Slot 4: Slot 4: Slot 5: Components/ dicate poptions	fullsize, 32-bit PC fullsize, 32-bit PC fullsize, 32-bit PC fullsize, 32-bit PC	I 2.1, Hot-swap, sec* I 2.1, Hot-swap, sec* I 2.1, Hot-swap, sec* I 2.1, Hot-swap, sec* I 2.1, primary PCI bust I 2.1, primary PCI bust	* ⇒ 3 year parts an ⇒ International W ⇒ On site warran ⇒ All cities in all ⇒ 8 am - 5 pm, M	/arranty Service ^s ty all 3 years states

• <u>A1</u> Diskette • A2 • A3 CD-ROM • A4 HH 5.25" • A5 HH 5.25" • A6

NetBAY3 pedestal (supports 2 more NetBAY3's)

- ⇒ Suppliers Declaration⇒ Vital Product Data
- ⇒ Backup BIOS

Backplane A: 6 SL 3.5" bays or 3 HH 3.5" bays

Disks not supported in 5.25" bays

- secondary PCI bus
- Setup Program is available by pressing F1 at startup; Diagnostics (PC Doctor) by pressing F2 at startup
- Lockable hinged, removable door to access front panel and removable media
- Removeable top cover and two side covers
- Access adapters, memory, CPUs from top
 Predictive failure analysis: alerts generated by Adv Remote Mgmt Processor for Netfinity Mgr for DIMM(s), processor(s), VRM(s), power supply(s), disk(s), and fans
- Next business day response time On site warranty upgrade options:
- 24 hr / 7 day coverage, 4 hour
- response7 time • 24 hr / 7 day coverage, 2 hour
- response⁷ time (in eligible locatns) ⇒ 90-day IBM Start Up Support
- □ IBM SystemXtra®
- 24 hour / 7 day telephone¹⁴, bulletin board, fax, electronic, and Internet (www.pc.ibm.com/server) support ⇒ IBM or reseller warranty/service

	T (N :BAYO B :	T (N (DAY))	<u> </u>
IBM® Netfinity®	Tower / NetBAY3 Rack 1 x Pentium III 500 1 x Pentium III 500	Tower/NetBAY3 R	
IDM Nethinty	open bay open bay		ppen bay
Type - model Mechanical Rack / conversion Disk - capacity	8660-61U 8660-6RU Tower EIA 19" rack (8U ⁴) Rack systems supported in IBM Netfinity None standard / supports 10K rpm disks	8660-72U 86 Tower E Rack products / kits av	660-7SU EIA 19" rack (8U ⁴) vailable to convert rack to tower or tower to rack
Disk - bays Avail / withdrawn date		June 1999 / April 2006	2 connectors / 1 backplanes (bank) / SAF-TE 1.0 complian 10
Intel® processor / L2 Processor upgrade(s)	2 way SMP via to identical Pentium III p Upgrade to two-way identical Pentium II Upgrade to four-way identical Pentium II	I Xeon™ Slòt 2 CPUs (\ II Xeon Slot 2 CPUs (w	Card contains two Intel Slot 1 connectors) with Netfinity Upg Kit for Pentium II Xeon) with Netfinity Four-Way Proc Upg Kit)
Processor Card L2 cache	512KB std / 512KB max / ECC / half spec	OBX Host Bridge, 4 DIN ed of processor / integra	MM sockets, PCI-to-PCI bridge, two I2C thermal monitors rated in Single Edge Contact (SEC) cartridge
Mem - std / max / type Memory - sockets Memory - features Memory - support	4 sockets / 3 available (all have Error C	ated DIMM 3.3v socke	g memory controller) ets / PC100-compliant / hardware scrubbing of ECC erro
SCSI controller / RAID Adapter vendor / chip Cache Channels Connectors SCSI cabling IDE controller / cabling	IBM / ServeRAID II / on motherboard / PC 4MB std/max / write-through or write-bac Two channels (internal) / each uses Adap Each channel: 1 internal (16-bit) / options	CI primary bus 109 234 btec AIC-7880P al external connector (3 ane / two drop 16-bit SC	nodels: Maximum internal disk capacity: 9.2GB with six 18.2GB SL Hot-Swap Wide Ultra SCSI disk 4.6GB with optional EXP15 in NetBAY3 w/ ten 18GB disk 3 external knockouts) via optional cable from int connector CSI cable included to support devices in two open left bays er to CD-ROM
Architecture / chip sets Bus slots	IBM PCI-to-PCI Bridge (27-82353); four NS PC97317VUL Super I/O / PCI 2.1 (3	hot-swap PCI slots off 3MHz) / I ₂ O ready	, ISA Bridge, USB) / IBM ServeRAID II (SCSI RAID) / f secondary bus; all other PCI slots/devices off primary buntion indicator lights (optical sensors control power to sl
Bays / available	PCI adapters); replace of 6 hot-swap disk bays	or add; separated by ins / three 5.25" HH bays (sulative plastic dividers / 2 PCI slots / 1 ISA slot (see below (1 used) / one 3.5" SL bay (diskette) / see below used EXP10 disks, routers, UPS) / supports 2 more NetBA
Ethernet controller CD-ROM / diskette Serial / parallel / USB Graphics controller	AMD® Am79C971 / on planar / 10Base CD-ROM: 32X-14X® CD-ROM / multises Serial: Three 9 pin (one for Mgmt Proce	T, 100BaseTX / full d ssion / IDE interface / 1 essor) Parallel: One	Huplex / PCI bus / Wake-on-LAN / RJ-45 connector / 3 LEC 1.6" HH / bootable; Diskette drive: 3.5" 1.44 MB (EPP, ECP) / IEEE 1284 USB: Two ports IMB SGRAM std/max / up to 1024x768 at 256 colors at 85H
Security	selectable boot / secure mode (disables)	power on and reset butt	ver mechanical lock (tower only) / NetBAY3 bezel lock / ton, keyboard, mouse) / diskette, mouse, CD-ROM disable d/write access, dial back) / unattended start mode
Systems management			ssor) / on planar / provides remote console and mgmt /
Diagnostics Serviceability Software	Light-Path Diagnostics Panel providing	g LED map to failing par	supply / NS LM78 hardware monitor (voltage, temp, 3 fans rt (under top cover) / Information LED Panel in front 128MB SDRAM 100MHz ECC DIMM (register) 01K720 2, 256MB SDRAM 100MHz ECC DIMM (register) 01K80
	Lotus® Domino® Application Server Releversion) plus five client licenses¹8, Norto PowerChute Plus / includes Netfinity Ma	n AntiVirus, and APC	Pentium III 500MHz/512KB Proc Upg 36L967 Pentium III 550MHz/512KB Proc Upg 33L51 Netfinity Upg Kit for Pentium II Xeon (2-way) 01K80
Upgradeable EEPROM: Keyboard / mouse Power supply Fans	sBIOS (remote), diagnostics (remote), MoserveRAID II EEPROMs on motherboar Tower: IBM 101 key keyboard / IBM mstd: one 400 watt hot-swap; Max: tw Requires one minimum / second is redu Universal (voltage sensing) / fans in each Three hot-swap redundant fans / varia	d can be upgraded ouse (both black) o 400 watt hot-swap nant / tool-free install th power supply / PFA able speed / under top	[Pentium III Xeon 550MHz/1MB Proc Upg* 33L510
Other features	cover / each fan unique / PFA / fan failu LED and Mgmt Processor / power suppl	v fan	*only supported in Four-Way Proc Upg Kit Netfinity 400W Hot-Swap Redundant Power II 01K799 Netfinity SCSI Controller Cable (to cut out) 03K93
⇒ Towerdim: H 20.9		fullsize, 32-bit PCI 2 fullsize, 32-bit PCI 2	2.1, Hot-swap, sec** LIMITED WARRANTY
Rack or Tower	Black color ACPI 1.0 Corange components/ labels indicate hot-swap options Suppliers Declaration Slot 3: Slot 4: Slot 5: Slot 6: Slot 7: ** second	fullsize, 32-bit PCI 2 fullsize, 32-bit PCI 2 fullsize, 32-bit PCI 2 fullsize, 32-bit PCI 2 fullsize, 16-bit ISA ondary PCI bus	2.1, Hot-swap, sec** 2.1, Hot-swap, sec** 2.1, primary PCI bus 3 year parts and labor warranty International Warranty Service On site warranty all 3 years
Diskette	Backup BIOS start Backplane A: F2 a 6 SL 3.5" bays \$\icides \text{Lock} or 3 HH 3.5" bays fron	up Program is available l rup; <u>Diagnostics</u> (PC Do t startup kable hinged, removable t panel and removable i noveable top cover and	• 24 hr / 7 day coverage, 4 hour average response ⁷ time • 24 hr / 7 day coverage, 2 hour average response ⁷ time
NetBAY3 pedest (supports 2 more NetB	Disks not supported in 5.25" bays tal BAY3's) Disks not supported ⇒ Acct Acct Adv for □	ess adapters, memory, dictive failure analysis: a System Mgmt Process DIMM(s), processor(s), V oly(s), disk(s), and fans	, CPUs from top alerts generated by or for Netfinity Mgr //RM(s), power → 90-day IBM Start Up Support IBM SystemXtra®, 16 → 24 hour / 7 day telephone 14, fax, electronic, and Internet
	onerty of their respective owners	, (5), 4.0(5), 4.14 14.16	⇒ IBM or reseller warranty/service No warranties are expressed or implied in this summ

IBM® Netfinity®	Tower / NetBAY3 1 x Xeon 400 open bay	Rack 1 x Xeon 400 open bay	Rack 1 x Xeon 400 open bay	Rack 1 x Xeon 450 open bay	Tower / NetBAY3 1 x Xeon 450 open bay	Rack 1 x Xeon 450 open bay
Type - model Mechanical Rack / conversion Disk - capacity Disk - bays Avail / withdrawn date	8661-11Y Tower Rack systems supp None standard / su	8661-1RY EIA 19" rack (8L corted in IBM Nett apports 4/9/18/36G included (disks sh	8661-2RY J ⁴) EIA 19" rack (8U) inity Rack products / B (7200-10000 rpm) d ip w/ trays) / 80 pin SC	8661-3RY EIA 19" rack (8U kits available to co isks	8661-31Y) Tower nvert rack to tower or packplanes (bank) / SA	8661-4RY EIA 19" rack (8U) tower to rack
Intel® processor(s) L2 cache Implementation Processor upgrade(s) Processor Card	2-way SMP / to two Upgrade to four-wa Processor Card cor	h ECC L2 cache in o identical Pentium y identical Pentiur ntains two Intel® Sl	1MB / full speed tegrated in Single Edg III Xeon™ or Pentium II Xeon or PIII Xeon ot 2 connectors, 440G e slot used by standard	III Xeon Slòt 2 ĆPU Slot 2 CPUs (with N X Host Bridge, 4 DIN	d rtridge in Slot 2 / in Pro s / MPS 1.4 Netfinity Four-Way Pro MM sockets, 4 VRM so	c Upg Kit)
Mem - std / max / type Memory - sockets Memory - features Memory - support	SDRAM / 100MHz	ble (all have Error four 168 pin gold-	Checking and Correc plated DIMM 3.3 volt s IMs only (128, 256, an	ockets / PC100-con	ller) npliant / hardware scru	bbing of ECC errors
SCSI controller / RAID Adapter vendor / chip Cache Channels Connectors SCSI cabling IDE controller / cabling	IBM / ServeRAID II 4MB std/max / write Two channels (inter Each channel: 1 int 16-bit cable from Se	/ on motherboard / -through or write-b nal) /each uses Adernal (16-bit) / no e erveRAID II to back	eack daptec AIC-7880P external connector, but cplane / two drop 16-bit	109.2GB ² with six 3 external knockout t SCSI cable include	18.2GB SL HS Wide to the following the follo	Ultra SCSI disks m internal connector
Architecture / chip sets Bus slots Bays / available	IBM PCI-to-PCI Bri NS PC97317VUL S 7 slots available: 4 I ho 10 bays total: 6 I	dge (27-82353); fo Super I/O / PCI 2.1 hot-swap PCI slot ot replace, hot upgra hot-swap disk bay	EB (EIDE (Ultra DMA/ bur hot-swap PCI slots (33MHz) / I ₂ O ready s ¹⁰ with power and a de, hot expansion; sepa ys / three 5.25" HH ba n (3U pedestal for rack	off secondary bus; ttention indicator I rated by insulative pla ys (1 used) / one 3.5	all other PCI slots/de ights (optical sensors stic dividers / 2 PCI slots " SL bay (diskette) / se	vices off primary bus control power to slot /1 ISA slot (see below e below
Ethernet controller CD-ROM / diskette driv Serial / parallel / USB Graphics controller	e <i>CD-ROM:</i> 32X-14> <i>Serial:</i> Three 9 pin	(6 CD-ROM / IDE ((one for Mgmt Pro	seT, 100BaseTX / fu ATAPI) / 1.6" HH / boo ocessor) Parallel: C o64V2 GX (on planar)	table; <i>Diskette dri</i> ne (EPP, ECP) / IE	<i>/e:</i> 3.5" 1.44 MB diske EE 1284 <i>USB:</i> Two	ette drive / dust cover ports
Security	selectable boot / se	cure mode (disable	ssword / door and top es power on and reset ssword, read-only or r	button, keyboard, m	ouse) / disketté, mous	e, CD-ROM disable
Systems management Diagnostics Serviceability Software	Light-Path Diagno Slide out shuttle of ServerGuide™ (CE Lotus® Domino® Ap version) plus five cl	nar / provides remestics Panel provides Panel provides Panel provides Proc Cap-ROM installation polication Server Relient licenses 18, No	Processor (service ote console and mgm ding LED map to failing urd, planar, and I/O ad and configuration utilit telease 5 (Windows Norton AntiVirus, APC Manager and others	t 256MB SDRA part 512MB SDRA Pentium II Xeres), Pentium II Xeres Pentium II Xeres Pentium II Xeres Pentium II Xeres Pentium III Xeres Pentium III Xeres Pentium III 50	M 100MHz ECC DIMI M 100MHz ECC DIMI M 100MHz ECC DIMI on 400MHz/512KB Pr on 400MHz/512KB Pr on 450MHz/512KB Pr on 450MHz/1MB Proc 0/512KB Proc Upg	M (register) 01K804: M (register) 01K726: oc Upg 01K726: Upg 10L589: oc Upg 10L590: Upg 10L590: 36L967:
Upgradeable EEPROMs Keyboard / mouse Power supply Fans	ServeRAID II EEPF Tower: IBM 101 k Std: one 400 watm Requires minimum Universal (voltage s Three hot-swap re	Noms on motherbasey keyboard / IBN hot-swap; Max: of one / second is sensing) / fans in edundant fans / vaique / PFA / fan fa	oard can be upgraded of mouse (both black) two 400 watt hot-swared on the mouse of the free in the cach power supply / Pariable speed / under the signals Diagnost	Pentium III Xe Pentium III Xe Pentium III Xe supported in Pentium III Xe Pentium III Xe Pentium III Xe	Way Processor Upgration 500MHz/512KB Poten 500MHz/512KB Poten 550MHz/512KB Poten 550MHz/512KB Poten 550MHz/512KB Poten 550MHz/1MB Procented in Four-Way Procented in Four-Way Redundar	roc Upg 33L5056 c Upg 33L5054 roc Upg (not coc Upg Kit) 33L5110 roc Upg* 33L5108 c Upg Kit
Diskette → Tower dim: H 20.9 → Rack dimen: H 14" Rack or Tower → A1 → A2	" x W 19" x D 27.6"; ; « W 17.3" x D 25.6"; ; ⇒ Black cc ⇒ ACPI 1.1. ⇒ Orange labels in hot-swa	B8 to 123 lbs Slot Slot Slot Slot Slot Slot Slot Slot	t 1: fullsize, 32-bit Po	CI 2.1, primary PCI b CI 2.1, primary PCI b A ble by pressing F1 a	→ 3 year parts an → International W → On site warran → All cities in all → 8 am - 5 pm, M → Next business On site warran	darranty Service ³ ty all 3 years states on- Fri coverage day response time ty upgrade options: coverage, 4 hour

CD-ROM • A3 • A4 HH 5.25" • A5 • <u>A</u>6 HH 5.25"

NetBAY3 pedestal (supports 2 more NetBAY3's) Backplane A: 6 SL 3.5" bays or 3 HH 3.5" bays

Disks not supported in 5.25" bays

F2 at startup

Lockable hinged, removable door to access front panel and removable media

Removeable top cover and two side covers

 Access adapters, memory, CPUs from top
 Predictive failure analysis: alerts generated by
 Adv System Mgmt Processor for Netfinity Mgr for DIMM(s), processor(s), VRM(s), power supply(s), disk(s), and fans

- response⁷ time • 24 hr / 7 day coverage, 2 hour
- ✓ IBM SystemXtra®.
- 24 hour / 7 day telephone¹⁴, bulletin board, fax, electronic, and Internet (www.pc.ibm.com) support IBM or reseller warranty/service

IEM Netfinity® 5500 M10 (Summer 1999) - withdrawn

IBM® Netfinity®	Tower / NetBAY3 1 x Pentium III Xeon open bay	Rack 1 x Pentium III Xeon open bay		
Type - model Mechanical Rack / conversion Disk - capacity Disk - bays Avail / withdrawn date	8661-51Y Tower Rack systems supported in IE None standard / supports 4/9/	8661-5RY EIA 19" rack (8U ⁴) BM Netfinity Rack products / I 18/36GB (7200-10000 rpm) di	sks	ert rack to tower or tower to rack ackplanes (bank) / SAF-TE 1.0 compliant
Intel® processor(s) L2 cache Implementation Processor upgrade(s) Processor Card	2-way SMP / to two identical F Upgrade to four-way identical Processor Card contains two In	cache integrated in Single Ed Pentium III Xeon™ Slot 2 CPUs Pentium III Xeon Slot 2 CPUs ntel® Slot 2 connectors. 440G)	š / MPS 1.4` s (with Netfinity Four-W X Host Bridge, 4 DIMM	ridge in Slot 2 / in Processor Shuttle /ay Proc Upg Kit) sockets, 4 VRM sockets, PCI-to-PCI ridge and other slot used by terminator
Mem - std / max / type Memory - sockets Memory - features Memory - support	256MB std / 2GB max / ECC 4 sockets / 3 available (all hav SDRAM / 100MHz / four 168 pi Supports registered SDRAM E	in gold-plated DIMM 3.3 volt so	ockets / PC100-compli) ant / hardware scrubbing of ECC errors
SCSI controller / RAID Adapter vendor / chip Cache Channels Connectors SCSI cabling IDE controller / cabling		rboard / PCI primary bus write-back uses Adaptec AIC-7880P it) / no external connector, but to backplane / two drop 16-bit	I models: Maximum in 109.2GB ² with six 18 3 external knockouts for t SCSI cable included to	ternal disk capacity: .2GB SL HS Wide Ultra SCSI disks or optional cable from internal connector o support devices in two open left bays
Architecture / chip sets Bus slots Bays / available	IBM PCI-to-PCI Bridge (27-82 NS PC97317VUL Super I/O / 7 slots available: 4 hot-swap F hot replace, ho 10 bays total: 6 hot-swap c	353); four hot-swap PCI slots PCI 2.1 (33MHz) / I,O ready PCI slots¹º with power and at ot upgrade, hot expansion; separ disk bays / three 5.25" HH bay	off secondary bus; all ttention indicator light rated by insulative plastic /s (1 used) / one 3.5" S	/ IBM ServeRAID II (SCSI RAID) / other PCI slots/devices off primary bus / its (optical sensors control power to slot) dividers/2 PCI slots/1 ISA slot (see below) L bay (diskette) / see below outers, UPS) / supports 2 more NetBAY3
Ethernet controller CD-ROM / diskette drive Serial / parallel / USB Graphics controller	AMD® Am79C971 / on planar CCD-ROM: 32X-14X6 CD-ROM Serial: Three 9 pin (one for M	/ 10BaseT, 100BaseTX / full / IDE (ATAPI) / 1.6" HH / boot gmt Processor) Parallel: O	Il duplex / PCI bus / W table; Diskette drive: ne (EPP, ECP) / IEEE	ake-on-LAN / RJ-45 connector / 3 LEDs 3.5" 1.44 MB diskette drive / dust cover
Security		(disables power on and reset b	outton, keyboard, mous	(tower only) / NetBAY3 bezel lock / se) / diskette, mouse, CD-ROM disable / ack) / unattended start mode
Systems management Diagnostics Serviceability Software	power on/off system / monitors Light-Path Diagnostics Pane Slide out shuttle drawer for P ServerGuide™ (CD-ROM instatutus® Domino® Application S version) plus five client license	temperature, disks, fans, pow Il providing LED map to failing Proc Card, planar, and I/O adpt allation and configuration utiliti erver Release 5 (Windows N' es ¹⁸ , Norton AntiVirus, APC	ver supply / NS LM78 hapart (under top cover) / trs	ovides remote console and mgmt / ardware monitor (voltage, temp, 3 fans) Information LED Panel in front 100MHz ECC DIMM (register) 01K7262 100MHz ECC DIMM (register) 01K8043 100MHz ECC DIMM (register) 01K7263 ay Processor Upgrade Kit 28L1014
Upgradeable EEPROMs Keyboard / mouse Power supply	PowerChute Plus / includes N BIOS (remote), diagnostics (re ServeRAID II EEPROMs on m Tower: IBM 101 key keyboa Std: one 400 watt hot-swap; Requires minimum of one / se Universal (voltage sensing) / f Three hot-swap redundant facover / each fan unique / PFA LED and Mgmt Processor / pc	emote), Mgmt Processor, and notherboard can be upgraded rd / IBM mouse (both black) <i>Max:</i> two 400 watt hot-swa cond is redundant / tool-free in ans in each power supply / Pl ans / variable speed / under t / fan failure signals Diagnosti	Pentium III Xeon Pentium III Xeon supported in Ne Pentium III Xeon Pentium III Xeon Netium III Xeon Netium III Xeon Netium III Xeon Netium III Xeon Netium III Xeon Netium III Xeon Netinity 400W H	\$00MHz/512KB Proc Upg
		S Slot 2: fullsize, 32-bit PC Slot 3: fullsize, 32-bit PC Slot 4: fullsize, 32-bit PC Slot 5: fullsize, 32-bit PC Slot 6: fullsize, 32-bit PC Slot 7: fullsize, 32-bit PC	Cl 2.1, Hot-swap, sec** Cl 2.1, Hot-swap, sec** Cl 2.1, Hot-swap, sec** Cl 2.1, Portion of the control of the c	LIMITED WARRANTY ⇒ 3 year parts and labor warranty³ ⇒ International Warranty Service³ ⇒ On site warranty all 3 years ⇒ All cities in all states ⇒ 8 am - 5 pm, Mon-Fri coverage ⇒ Next business day average response time ⇒ On site warranty upgrade options: • 24 hr / 7 day coverage, 4 hour average response² time • 24 hr / 7 day coverage, 2 hour average response² time (in eligible locations) ⇒ 90-day IBM Start Up Support ⇒ IBM SystemXtra®.¹5 ⇒ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com) support

IBM [®] Netfinity [®]	Tower / NetBAY3 1 x Pentium III Xeon open bay	Rack 1 x Pentium III Xeon 500 open bay	Tower / NetBAY3 1 x Pentium III Xeon open bay	Rack 1 x Pentium III Xeon 500 open bay
Type - model Mechanical Rack / conversion Disk - capacity Disk - bays Avail / withdrawn date	8662-31Y Tower Rack systems supports None standard / support	8662-3RY EIA 19" rack (8U4) ed in IBM Netfinity Rack products orts 4/9/18/36GB (7200-10000 rpm uded (disks ship w/ trays) / 80 pin s	8662-41Y Tower s / kits available to conver) disks	8662-4RY EIA 19" rack (8U) t rack to tower or tower to rack planes (bank) / SAF-TE 1.0 compliant
ntel® processor(s) _2 cache mplementation Processor upgrade(s) Processor Card	4-way SMP / to four ide Processor Card contain	T500/100MHz¹ CC L2 cache integrated in Single Entical Pentium III Xeon™ Slot 2 (S0 as 4 Intel Slot 2 connectors, 2 Relevices® ADM9240 (monitors 4 VRI	C330) CPUs / MPS 1.4 / 82 iance chips, 1 memory cai	ge in Slot 2 / in Processor Shuttle 093AA IOAPIC on planar
Mem - std / max / type Memory - sockets Memory - features Memory - support	One memory card std a SDRAM / 100MHz / eight	/ ECC (Error Checking and Correc nd max / 8 sockets / 7 available / 4 ht 168-pin gold-plated DIMM 3.3 vo DRAM ECC DIMMs only (128, 256	I sockets controlled by each olt sockets / PC100-complia	h Reliance chip
SCSI controller / RAID Adapter vendor / chip Cache Channels Connectors and cabling DE controller / cabling	IBM / ServeRAID II / on 4MB std/max / write-thr Two channels (via two of One internal connector connector / two drop 16	AID / dual channel / RAID 0, 1, 5 motherboard / 40MB/sec max ough or write-back / PCI primary b connectors on planar) / each uses with 16-bit cable to backplane / one -bit SCSI cable included to suppor er / one drop IDE cable from one ID	109.2GB ² with six us Adaptec AIC-7880P e internal connector with 16 t devices in two open left ba	n internal disk capacity: 18.2GB SL HS Wide Ultra SCSI disk s-bit cable to external .8mm VHDCI ays (if disconnect an existing cable)
·	supports 4 DIMMs) / PI two primary PCI 2.1 33	n 2.0LE chip sets (CNB20LE No IX4E 82371EB (EIDE, ISA Bridge MHz 32-bit buses / NS PC97317\	e, USB) / IBM ServeRAID	IÍ (SCSI RAÍD) / 3MHz) / I ,O ready
Bus slots Bays / available	hot rep 10 bays total: 6 hot-	place, hot upgrade, hot expansion, se swap disk bays / three 5.25" HH I	parated by insulative plastic d bays (1 used) / one 3.5" SL	s (optical sensors control power to slo lividers /1 PCl slot /1 ISA slot (see belov bay (diskette) / see below uters, UPS) / supports 2 more NetBA\
Ethernet controller CD-ROM / diskette drive Serial / parallel / USB Graphics controller	AMD® Am79C971 / on e <i>CD-ROM:</i> 32X-14X ⁶ Cl <i>Serial:</i> Three 9 pin (on	planar / 10BaseT, 100BaseTX / f D-ROM / IDE (ATAPI) / 1.6" HH / be e for Mgmt Processor) <i>Parallel</i>	ull duplex / PCI bus / Wak potable; Diskette drive: 3 : One (EPP, ECP) / IEEE 1	e-on-LAN / RJ-45 connector / 3 LED 3.5" 1.44 MB diskette drive / dust cov
Security	selectable boot / secure	dministrator password / door and to e mode (disables keyboard and m (user log-in password, read-only	nouse) / diskette, mouse, Ċ	
Systems management Diagnostics Serviceability Software	power on/off system / m Light-Path Diagnostic Slide out shuttle draw ServerGuide™ (CD-RC Lotus® Domino® Applic version) plus five client	s Panel providing LED map to fail	ower supply / NS LM78 ha ng part (under top cover) / I dptrs illities), S NT 512MB SDRAM 10 512MB SDRAM 10 Netfinity 500W Hot	rdware monitor (voltage, temp, 3 fans nformation LED Panel in front 10MHz ECC DIMM (register) 01K726 10MHz ECC DIMM (register) 01K804 10MHz ECC DIMM (register) 01K726 1-Swap Redun. Power Sup 01K795
Upgradeable EEPROM: Keyboard / mouse Power supply Fans	sBIOS (remote), diagnos ServeRAID II EEPROM Tower: IBM 101 key I Std: one 500 watt hot Requires one minimum Universal (voltage sens Four hot-swap redund	stics, Mgmt Processor, and Is on motherboard can be upgrad keyboard / IBM mouse (both blac -swap; Max: two 500 watt hot-s / second is redundant / tool-free ir sing) / fans in each power supply / dant fans / variable speed / under e / PFA / fan failure signals Diagno	Pentium III Xeon 5 Pentium III X	AY3 Caster Set 10L69 ⁻¹
Rack or Tower • A1	" x W 19" x D 27.6"; 88 tc W 17.3" x D 25.6"; 88 tc W 17.3" x D 25.6"; 88 tc C W 17.0 Control of the color of	Slot 2: fullsize, 32-bit P Slot 3: fullsize, 32-bit P Slot 4: fullsize, 32-bit P Slot 5: halfsize, 32-bit P Slot 5: halfsize, 32-bit P Slot 6: fullsize, 16-bit IS ** additional primary PC seclaration t Data Setup Program is ava startup; Diagnostics (CI 2.1, Hot-swap, primary CI 2.1, Hot-swap, primary CI 2.1, primary** PCI bus SA	LIMITED WARRANTY ⇒ 3 year parts and labor warranty³ ⇒ International Warranty Service³ ⇒ On site warranty all 3 years ⇒ All cities in all states ⇒ 8 am - 5 pm, Mon- Fri coverage ¬ Next business day average response time ⇒ On site warranty upgrade options • 24 by 7 day coverage 4 hour
CD-ROM HH 5.25" NetBAY3 pedesi (supports 2 more NetF		F2 at startup Lockable hinged, rem front panel and remo pays Removeable top cove Access adapters, me orted Predictive failure anal	novable door to access vable media er and two side covers mory, CPUs from top ysis: alerts generated by ocessor for Netfinity Mgr or(s), VRM(s), power	24 hr / 7 day coverage, 4 hour average response ⁷ time 24 hr / 7 day coverage, 2 hour average response ⁶ time (in eligible locations) 90-day IBM Start Up Support IBM SystemXtra®.¹⁵ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com) support

IBM Netfinity® 5500 M20 (Summer 1999) - withdrawn

IBM® Netfinity®	Tower / NetBAY3 1 x Pentium III Xeon open bay	Rack 1 x Pentium III Xeon 550 open bay	Tower / NetBAY3 1 x Pentium III Xeon open bay	Rack 1 x Pentium III Xeon 550 open bay
Type - model Mechanical Rack / conversion Disk - capacity Disk - bays Avail / withdrawn date	Rack systems supporte None standard / supporte		isks	8662-6RY EIA 19" rack (8U) t rack to tower or tower to rack skplanes (bank) / SAF-TE 1.0 compliant
Intel® processor(s) L2 cache Implementation Processor upgrade(s) Processor Card	4-way SMP / to four ider Processor Card contain	^M 550/100MHz¹ C L2 cache integrated in Single Edg ntical Pentium III Xeon™ Slot 2 (SC3: s 4 Intel Slot 2 connectors, 2 Reliar evices® ADM9240 (monitors 4 VRM	30) CPUs / MPS 1.4 / 82 nce chips, 1 memory ca	ge in Slot 2 / in Processor Shuttle 2093AA IOAPIC on planar
Mem - std / max / type Memory - sockets Memory - features Memory - support	One memory card std a SDRAM / 100MHz / eight	/ ECC (Error Checking and Correct nd max / 8 sockets / 7 available / 4 nt 168-pin gold-plated DIMM 3.3 volt PRAM ECC DIMMs only (128, 256, au	sockets controlled by e sockets / PC100-compli	ach Reliance chip
•	IBM / ServeRAID II / on I 4MB std/max / write-thro Two channels (via two or gOne internal connector v connector / two drop 16-	AID / dual channel / RAID 0, 1, 5 motherboard / 40MB/sec max bugh or write-back / PCI primary bus onnectors on planar) / each uses Ad with 16-bit cable to backplane / one ir bit SCSI cable included to support d r / one drop IDE cable from one IDE	aptec AIC-7880P nternal connector with 16 evices in two open left b	
Architecture / chip sets Bus slots Bays / available	supports 4 DIMMs) / PII two primary PCI 2.1 33 6 slots available: 4 hot-s Active 10 bays total: 6 hot-s	PCI via hot replace, hot upgrade, swap disk bays / three 5.25" HH ba	JSB) / IBM ServeRAID JL Super I/O / PCI 2.1 ttention indicator light hot expansion / 1 PCI s ays (1 used) / one 3.5" S	IÍ (SCSI RAID) / (33MHz) / I O ready s (optical sensors control power to slot) slot / 1 ISA slot (see below)
Ethernet controller CD-ROM / diskette drv Serial / parallel / USB Graphics controller	AMD® Am79C971 / on p CD-ROM: 40X-17X6 CD Serial: Three 9 pin (one	blanar / 10BaseT , 100BaseTX / full D-ROM / IDE (ATAPI) / 1.6" HH / boo e for Mgmt Processor) <i>Parallel</i> : O	duplex / PCI bus / Wak otable; Diskette drive: 3 ne (EPP, ECP) / IEEE	ce-on-LAN / RJ-45 connector / 3 LEDs 8.5" 1.44 MB diskette drive / dust cover
Security	selectable boot / secure	Iministrator password / door and top e mode (disables keyboard and mou (user log-in password, read-only or	use) / diskette, mouse, (CD-ROM disable /
Diagnostics Serviceability Software	power on/off system / mc Light-Path Diagnostics Slide out shuttle drawe ServerGuide™ (CD-RO Lotus® Domino® Applica version) plus five client PowerChute Plus / inclu	s Panel providing LED map to failing or for Proc Card, planar, and I/O adp M installation and configuration utilit ation Server Release 5 (Windows N licenses ¹⁸ , Norton AntiVirus, APC udes Netfinity® Manager and others	ver supply / NS LM78 ha part (under top cover) / I trs ies), 256MB SDRAM 10 512MB SDRAM 10 Netfinity 500W Hot Pentium III Xeon 5	rdware monitor (voltage, temp, 3 fans) information LED Panel in front 00MHz ECC DIMM (register) 01K7262 00MHz ECC DIMM (register) 01K8043 00MHz ECC DIMM (register) 01K7263 -Swap Redun. Power Sup 01K7953 550MHz/512KB Proc Upg 33L5107
Upgradeable EEPROMs Keyboard / mouse Power supply	ServeRAID II ÉEPROM Tower: IBM 101 key k Std: one 500 watt hot-Requires one minimum / Universal (voltage sensi Four hot-swap redund	tics, Mgmt Processor, and son motherboard can be upgraded eyboard / IBM mouse (both black) swap; Max: two 500 watt hot-swa/second is redundant / tool-free insting) / fans in each power supply / Piant fans / variable speed / under to / PFA / fan failure signals Diagnost for / power supply fan	Netfinity 5500 Tov Netfinity 5500 Rac IBM 10/100 Netfin IBM Netfinity EXP FA IBM Netfinity NetB IBM Netfinity NetB	AY3 Caster Set 10L6913
Tower dim: H 20.9 Rack dimen: H 14" Rack or Tower Diskette		123 lbs Slot 2: fullsize, 32-bit PCI Slot 3: fullsize, 32-bit PCI Slot 3: fullsize, 32-bit PCI Slot 5: halfsize, 32-bit PCI Slot 6: fullsize, 32-bit PCI Slot 6: fullsize, 16-bit ISA ** additional primary PCI b ** additional primary PCI b Setup Program is availa startup; Diagnostics (PC F2 at startup) Lockable hinged, remove the program of the progr	2.1, Hot-swap, primary 2.1, Hot-swap, primary 2.1, Hot-swap, primary 2.1, primary** PCI bus us ble by pressing F1 at c-Doctor) by pressing vable door to access ble media and two side covers bry, CPUs from top sis: alerts generated by bessor for Netfinity Mgr s), VRM(s), power	LIMITED WARRANTY → 3 year parts and labor warranty³ → International Warranty Service³ → On site warranty all 3 years → All cities in all states → 8 am - 5 pm, Mon- Fri coverage → Next business day average response time → On site warranty upgrade options: • 24 hr / 7 day coverage, 4 hour average response 7 time • 24 hr / 7 day coverage, 2 hour average response 7 time (in eligible locations) → 90-day IBM Start Up Support → IBM SystemXtra® 16 → 24 hour / 7 day telephone 14, fax, electronic, and Internet (www.pc.ibm.com) support

IBM® Netfinity®:	Tower 1 x Pent III 533EB Open bay	Rack 1 x Pent III 533EB Open bay	Tower 1 x Pent III 600EB Open bay	Rack 1 x Pent II 600EB Open bay	Tower 1 x Pent III 667 Open bay	Rack 1 x Pent II 667 Open bay
Type - model Mechanical Disk - capacity Disk - bays Rack support Avail / withdrawn date	Six hot-swap / no tra Rack systems support	8664-1RY EIA 19" Rack (5U ⁴) pports 7200-10000 r plys included (disks shorted in IBM Netfinity ecember 2000	om disks / 1 backplar nip w/ trays) / 80-pin :	SCA-2 connectors / c	pliant common tray with 8	8664-3RY EIA 19" Rack (5U) 5500R and EXP200 er conversion)
Intel® processor(s) L2 cache Implementation SMP support Processor upgrades	Processor Complex two VRM sockets (o 2-way SMP via second	reB ¹² /133MHz ¹ max / ECC / at proce contains two Intel SIc ne used), four DIMM and identical process identical processor u	ot 1 connectors for S sockets, and Reliand sor / upgrade via SE	sor and L2 cache in S ECC2 cartridges (ope ce CNB3.0LE North E	en Slot 1 used by t Bridge	ge (SECC2) erminator),
Memory - std / max Memory - sockets Memory - features Memory - support	SDRAM / 133MHz /	nax ble / ECC / (all have four 168-pin gold-pla SDRAM ECC DIMM	ated DIMM 3.3 volt s	sockets / PC133-com		
SCSI disk controller SCSI channels Extra SCSI cable IDE controller / cable	64-bit PCI / two char SCSI Channel A: 16 SCSI Channel B: 16 Includes a terminate	7 / dual channel Wid nnels (one internal/on 6-bit 68-pin LVD cable 6-bit 68-pin interface (d 2-drop 16-bit Ultra ROSB4) South Bridg e (CD-ROM)	ne external) / support e from controller to b (hardwired) to extern SCSI non-LVD cable	s IBM`ServeRAID ad ackplane al SCSI port (.8mm \ e for optional SCSI de	Apters (no hardwa /HDCI connector) evices in open 5.25 All models: M	" bays ax int disk capacity:
Bus slots (see below) Chip set Bays / available Status LEDs	PCI 2.1 (33MHz) / di 64-bit PCI (three hot Reliance Champion Processor and Supe (See diagram below	,	SI controller) / 32-bit l orth Bridge (CNB3.0L onductor® PC97317V 25" HH bays (1 used	PCI (two PCI`slots, gr E) / South Bridge (RC /UL (diskette, paralle by CD-ROM) / one d	ace, hot upgrade, har phics, ethernet, S OSB4) for IDE, USB I, serial, keyboard, iskette bay / six ho	South Bridge) [′] 3, ISA bus for Service mouse) / I ₂ O ready _' t-swap bays
10/100 ethernet CD-ROM / diskette Serial / parallel / USB Graphics controller	40X-17X ⁶ CD-ROM Serial: Three 9-pin (on planar / 10BaseT, / multisession / IDE ir one for Mgmt Proces / S3® Trio64 3D (on p	nterface / 1.6" HH / b ssor) <i>Parallel:</i> One	ootable; <i>Diskette:</i> 3.5 (EPP, ECP) / IEEE 1	5" 1.44MB diskette 284 <i>USB:</i> Two p	oorts
Security	power button, and re	/ administrator passv eset button (tower onl or read/write access	y) / unattended boot	/ selectable boot / sy		
Systems management Diagnostics Software	POST, and auto red Daignostics LED P error LEDs / diagnos ServerGuide™ , Lotu Release 5 (Windows	covery functions / mo anel (under cover) / l itics in ROM by pressi s® Domino® Applicatio NT version) plus five and APC PowerChute	nitors temperature, t Light-Path Diagnostic ng F2 at startup for F on Server client licenses ¹⁸ ,	fans, and power suppos™ provides an LED PC-Doctor Pentium III 533EBM Pentium III 600EBM Pentium III 667MHz	plies map to failing com IHz/256KB Proc Up IHz/256KB Proc Up //256KB Proc Upg	oonent / system board og 10K2168 og 00N7948 00N7949
Keyboard / mouse Power supply	Tower only: IBM 10 Std: two 250 watt he redundant with two	1-key keyboard / IBM nt-swap; <i>Max</i> : three 25 power supplies / wo o-restart / fans in eac	50 watt hot-swap / vrldwide /		33MHz/256KB Pro MHz/256KB Proc L MHz/256KB Proc L C DIMM 133MHz (Upg 10K2338 Jpg 19K4630
Fans Other features	fan failure signals Di power supply fans	t-swap fans / easy re agnostic LED and Mo / four I2C diagnostic	gmt Processor /	512MB SDRAM ECC I 1GB SDRAM ECC I Netfinity 5Ux24D To	C DIMM 133MHz (DIMM 133MHz (reg ower-to-Rack Kit	registered) 33L3062
5.25" HH 5.25" HH CD-ROM Bay @ Bay @	PCI 2.1 (5v), Bus A PCI 2.1 (5v), Hot-sw PCI 2.1 (5v), Hot-sw PCI 2.1 (5v), Hot-sw 9 3.5", SL 1", acce 9 5.25", HH 1.6" acce	ap, Bus B ap, Bus B ap, Bus B ss, diskette ss, hot swap ss, cD-ROM ss, open ss, open s SL disks SCA-2 Quic New diske witho Conf presi SCS SCS SCS CTR Seve mem and t Man of ar Towe SCS SCS Seve Pred mem and t Pred mem ss, open ss, CD-ROM SS, Open ss, open ss All new	ovable, easy release k release adapter slo rail system enables of the tape drives) to srout screws iguration/Setup Utility sing F1 at startup ISelect near startup ISelect near startup eral hardcopy publicatiotive failure analysistory, processors, VR fans in conjunction wager can alert the sy imminent componer: H 16.8" x W 8.6" x U 16.8" x to 82.7 pounds Ith black color on-hot-swaps bays uscrews) for devices	ots (no screws) devices (CD-ROM, nap in and out invoked by by pressing ations s on disk options, Ms, power supplies, ith Netfinity stem administrator nt failure x D 26.0" c D 24.8"	 ⇒ 3 year parts an ⇒ International W ⇒ On site warran ⇒ All cities in all ⇒ 8 am - 5 pm, M ⇒ Next business response time ⇒ On site warran • 24 hr / 7 day average resp 	/arranty Service ³ ty all 3 years states on- Fri coverage day average ty upgrade options: coverage, 4 hour onse ⁷ time coverage, 2 hour onse ⁷ time cations) rt Up Support a ^{®,16} telephone ¹⁴ , fax, Internet om) support

IBM® Netfinity®: Type-model Qnty	c Processor Memory Disk	SCSI controller	Mechanical :	Slots x bays	Hot -swap disk bays	Ethernet	Available date
864-41Y 1 x Pentiu 8664-4RY 1 x Pentiu 8664-51Y 1 x Pentiu 8664-5RY 1 x Pentiu 8664-61Y 1 x Pentiu 8664-6RY 1 x Pentiu 8664-71Y 1 x Pentiu 8664-7RY 1 x Pentiu	m III 733/133		5U rack ! Tower ! 5U rack ! Tower ! 5U rack ! Tower !	5 slots x 10 bays 5 slots x 10 bays	6 hot-swap 6 hot-swap 6 hot-swap 6 hot-swap 6 hot-swap 6 hot-swap	10/100 ethernet 10/100 ethernet 10/100 ethernet 10/100 ethernet 10/100 ethernet 10/100 ethernet 10/100 ethernet 10/100 ethernet	May 2000 May 2000 May 2000 May 2000 June 2000 June 2000 June 2000 June 2000
Intel® processor(s) L2 cache Implementation	1 x Pentium® III 733, 800EB, 256KB std and max / ECC / a Processor Complex contains t two VRM sockets (one used).	t processor speed wo Intel Slot 1 co four DIMM socket	I / processor annectors for Standard	and L2 cache in S SECC2 cartridges nce CNB3.0LE No	(open Slot 1 o orth Bridge	used by terminator	·),
SMP support Memory - std / max Memory - sockets Memory - features Memory - support	2-way SMP via second identi 256MB std / 4GB max 4 sockets / 3 available / ECC SDRAM / 133MHz / four 168- Supports registered SDRAM	/ (all have Error (Checking and IMM 3.3 volt	Correcting (ECC sockets / PC133-	c) memory cor		leaved
Disk - capacity Disk - bays Mechanical Rack support Bus slots (see below) Chip set	Adaptec® AHA-7897 / dual cl 64-bit PCI / two channels (one SCSI Channel A: 16-bit 68-pit SCSI Channel B: 16-bit 68-pit Includes a terminated 2-drop 1 Single Primary IDE (ROSB4) sone 1 drop IDE cable (CD-RO None standard / supports 72 Six hot-swap / no trays include Tower or EIA 19" Rack (5U ⁴) Rack systems supported in IB PCI 2.1 (33MHz) / dual peer P64-bit PCI (three hot-swap PC ServerWorks® ServerSet 3.0) Service Processor and Super	internal/one exten LVD cable from interface (hardw 16-bit Ultra SCSI r Gouth Bridge / one M) 100-10000 rpm disled (disks ship w/ t M NetfinityRacks CI / Active PCI™ I slots, SCSI contract LE chip set / Nort	rnal) / support controller to lived) to extern on-LVD cable connector of the conductor of t	rts IBM ServeRAI backplane nal SCSI port (.8r e for optional SC n planar / ane SCA-2 connecto to convert tower ap PCI slots (hot PCI (two PCI slo B3.0LE) / South I C97317VUL (disl	D adapters (no nm VHDCl con SI devices in constant series / common to rack (no rack	o hardware RAID s nnector) open 5.25" bays nodels: Max int dis 4GB² with six 36.40 ray with 8500R and ck to tower convers pgrade, hot expan thernet, South Brid 4) for IDE, USB, IS serial, keyboard, r	sk capacity: GB SL disks d EXP200 sion) sion) / lge) A bus for nouse)
Bays / available 10/100 ethernet CD-ROM / diskette Serial / parallel / USB Graphics controller	(See diagram below): 10 bays AMD® Am79C975 / on planar 40X-17X6 CD-ROM / multisess Serial: Three 9-pin (one for M SVGA / PCI 2.1 bus / S3® Trio	/ 10BaseT, 100Ba sion / IDE interface gmt Processor)	aseTX / full o e / 1.6" HH / l Parallel: One	luplex / RJ-45 co bootable; <i>Diskett</i> e (EPP, ECP) / IE	nnector / 3 fro e: 3.5" 1.44ME EE 1284 <i>US</i>	nt LEDs 3 diskette drive / du 3B: Two ports	ust cover
Security	Power-on password / administ power button, and reset buttor password, read-only or read/w	n (tower only) / un	attended boo	t / selectable boo			
Systems mgmt Diagnostics Software Keyboard / mouse Power supply	Netfinity Advanced System MPOST, and auto recovery fun Daignostics LED Panel (unde error LEDs / diagnostics in ROU ServerGuide™ (CD-ROM instatinux version) plus five client liand APC PowerChute Plus / in Tower only: IBM 101-key key Std: two 250 watt hot-swap; M	ctions / monitors or cover) / Light Pa M by pressing F2 allation and configurenses 19, AntiViruncludes Netfinity Exposer / IBM mous lax: three 250 watt	temperature, th Diagnostic at startup for uration utilities s software, Director, other e (both black hot-swap /	fans, and power s™ provides an LE PC-Doctor s), Lotus® Domino Pentium III 733 S Pentium III 860 Pentium III 860 Pentium III 933	supplies D map to failing Application S 3/133MHz/256 DEB/133MHz/2 6/133MHz/256 3/133MHz/256	g component / syste Server R5 (Windows KB Proc Upg 556KB Proc Upg KB Proc Upg	emboard s NT or 00N7943 10K2338 19K4630 19K4631
Fans	redundant with two power su voltage-sensing / auto-restart / Three redundant, hot-swap far fan failure signals Diagnostic I power supply fans	fans in each powns / easy removal	er supply / PFA /	256MB SDRAI 512MB SDRAI 1GB SDRAM I Netfinity 5Ux2	M ECC DIMM M ECC DIMM ECC DIMM 13: 4D Tower-to-R	133MHz (registere 133MHz (registere 3MHz (registered)	d) 33L3060 d) 33L3062 33L3064 37L6858
Slot 4: fullsize, 64-bir Slot 5: full 5:	t PCI 2.1 (5v), Bus A t PCI 2.1 (5v), Bus A t PCI 2.1 (5v), Bus A t PCI 2.1 (5v), Hot-swap, Bus E t PCI 2.1 (5v), Hot-swap, Bus E t PCI 2.1 (5v), Hot-swap, Bus E 3.5", SL 1", access, disker 3.5", SL 1", access, hot sv 3.5", SL 1", access, hot sv 5.35", SL 1", access, hot sv 5.35", SL 1", access, hot sv 6.3.5", HH 1.6" access, cD-R 6.2.5", HH 1.6" access, open 6.3.5", SL 1", access, open	Quick releacy New rail sy diskette, ta without scr Configurati pressing F SCSISelec CTRL+A Operator II wap Predictive memory, p and fans ir Manager co of an immi Tower: H S S5.7 to 82. Stealth bla All non-hot	ase adapter system enables upe drives) to rews ion/Setup Util 1 at startup of the rear startup information Pafailure analystrocessors, V or conjunction an alert the senent compon 16.8" x W 16.8". T pounds ick color	sis on disk options RMs, power supp with Netfinity system administratent failure "x D 26.0" x D 24.8"	M, 3 yea warra re Interior On si re All ci res on si res care tor loc res care lo	IMITED WARRAI ar parts and labor li anty ³ national Warranty S ite warranty all 3 ye ties in all states -5 pm, Mon-Fri cov business day resp tie warranty upgrac hr x 7 day coverag ponse ⁷ time hr x 7 day coverag ponse ⁷ time (in eligations) Start Up Support our x 7 day telepho ronic, and Internet	ervice ³ ears erage onse time de options: e, 4 hour e, 2 hour gible

IEM Netfinity® 6000R - withdrawn

IBM® Netfinity®:	Rack 1 x Pentium [®] Xeon™ III 700MHz Open bay	Rack 1 x Pentium III Xeon Open bay	700MHz	
Type - model Mechanical Disk - capacity Disk - bays Rack support Avail / withdrawn date	8682-1RY EIA 19" Rack (4U ⁴) None standard / supports 7200-1000 Hot-swap / 3 bays std / 6 max / 80-pin Supported in IBM NetBay® Racks	8682-2RY		
Intel® processor(s) L2 cache Implementation SMP support	1 x Pentium III Xeon 700/100MHz¹ 1MB std and max / at processor spee Motherboard contains four Intel Slot 2 one slot for Memory Board, and integ 4-way SMP via identical processors / Pentium III Xeon 900MHz upgrade av:	2 connectors for SECC c rated subsystems / all V upgrade via SECC into	t processor speed cartridges (fourth Slot RMs integrated in p	rocessors
Mem - std / max / type Memory - sockets Memory - support	512MB std / 16GB max / Chipkill™ chip) / Chipkill performed by memory One Memory Board std and max / 16 SDRAM / 100MHz / sixteen 168-pin of Supports registered SDRAM ECC D	multibit error correction u controller and firmware sockets / 12 available (t gold-plated DIMM 3.3 vol	four 128MB DIMMs : It sockets / PC100-c	standard) / 4-way memory interleave
SCSI disk controller SCSI channels Extra SCSI cable IDE controller / cable	Adaptec® AHA-7899 / dual channel 64-bit PCI / no hardware RAID standa Two 16-bit channels / both internal or Channel A: 16-bit 68-pin LVD cable f or can attach standard bulkhead LVD Includes a 16-bit LVD SCSI cable for Single Primary IDE / one connector o	ard one internal with one ex from controller to backpla cable through punch of external SCSI devices v	kternal / ane / Channel B: int ut for external conne ria an external 0.8mr	ernal 16-bit connector to use internally ctor
Architecture Slots (Active™ PCI) Chip set Bays / available Status LEDs	Three peer PCI 2.2 buses / Bus A: 32 daughtercard) / Bus B: 64-bit 66MHz (See below) 6 hot-swap PCI slots¹º av ServerWorks® ServerSet 2.0HE chip two 16-bit links to 6536) / IB6566 So Semiconductor® PC97317VUL (disket (See diagram below): 5 bays / three human per server linformation Panel (in front server)	(3 PCI slots) / Bus C: 64 /ailable / hot replace, ho p set / NB6536 North Br uth Bridge for IDE, USB atte, parallel, serial, key ot-swap disk bays standa	-bit 33MHz (2 PCI sl t upgrade, hot expar idge 2.0HE / NB655 , ISA bus for Servica board, mouse) ard (option for three a	lots, SCSI controller) asion iSIO Bridge 2.0 (Inter Module Bus with e Processor and Super I/O National additional hot-swap disk bays)
10/100 ethernet CD-ROM / diskette Serial / parallel / USB Graphics controller	AMD® Am79C975 / on planar / 10Bas 40X-17X6 CD-ROM / multisession / ID Serial: Three 9-pin (one for Mgmt Pro SVGA / PCI 2.1 bus / S3® Savage4 (o	DE interface / bootable; ocessor) Parallel: One	Diskette: 3.5" 1.44M USB: Two ports (Ve	B diskette drive / dust cover ersion 1.1) Adv Sys Mgmt: Two RJ-45
Security	Power-on password / administrator paselectable boot / systems mgmt secu start mode			n and reset button / unattended boot / /write access, dial back) / unattended
Systems management Diagnostics Software	allows diagnostic, reset, POST, and a Diagnostics LED Panel (under cover motherboard error LEDs / diagnostics	auto recovery functions /) / Light-Path Diagnostics in ROM by pressing F2 a	monitors temp, fans s™ provides an LED n at startup for PC-Doc	nap to failing component /
Keyboard / mouse Power supply	None standard Std: one 270 watt hot-swap; Max: thre front access / redundant with two pow cases; redundancy with three in all case	ver supplies in most ses / auto-restart	Pentium III Xeon 700	
Prerequisites	Six (four for disks, memory, PCI; two hot-swap / redundant (any single fan maintaining cooling / PFA / fan failure and Mgmt Processor / fan in each po Monitor, disk, network oper system, k	can fail while signals Diagnostic LED wer supply	Netfinity 270W Hot- 36.4GB 10K-4 Ultra	
Slot 2: fullsize, 64-bit Slot 3: fullsize, 64-bit Slot 4: fullsize, 64-bit Slot 5: fullsize, 64-bit Slot 6: fullsize, 64-bit Slot 6: fullsize, 64-bit \$\$ \$	66MHz PCI (3.3v), hot-swap, Bus B 66MHz PCI (3.3v), hot-swap, Bus B 66MHz PCI (3.3v), hot-swap, Bus B 33MHz PCI (5v), hot-swap, Bus C 33MHz PCI (5v), hot-swap, Bus C 30MHz PCI (5v), hot-swap, Bus B 50MHz PCI (5v), hot-swap, Bus C 50MHz PCI (5v), hot-swap	Rail system enables Cl to snap in and out with Configuration/Setup Ut pressing F1 at startup SCSISelect near startu CTRL+A Several hardcopy publy Predictive Failure Analymemory, processors, pand fans in conjunction Director can alert the sadministrator of an immaliure Rack: H 7.0" x W 19.0 62 to 77 pounds Stealth black color	D-ROM and diskette out screws illity invoked by up by pressing lications ysis on disk options, with IBM system ninent component or 28.0"	WARRANTY SERVICE SUPPORT ⇒ 3 year parts and labor warranty³ ⇒ International Warranty Service³ ⇒ On site warranty all 3 years ⇒ All cities in all states ⇒ 8 am - 5 pm, Mon- Fri coverage

IBM® PC Server:	1 x PPro 200 / 512KB	Tower 1 x PPro 200 / 512KB open bay	Rack 1 x PPro 200 / 1MB open bay	Tower 1 x PPro 200 / 1MB open bay
Type - model (code) Mechanical Rack / conversion Disk - capacity Disk - bays Planned availability	8651-RM0 EIA 19" rack model (11U ⁴) Rack systems supported in IBM None	B651-TM0 Tower Netfinity Rack or NetBAY22 / sks ship w/ trays) / 80 pin SCA	8651-RH0 EIA 19" rack model (1 kits available to convert	8651-TH0 1U) Tower rack to tower or tower to rack anes (banks) / SAF-TE 1.0 compliant
	e 1 x Pentium® Pro 200/66MHz ¹ /	7512KB L2 cache z processors (same speed/cac	1 x Pentium Pro 200/6 the size) / SMP / MESI ca	66MHz/1MB L2 cache ache coherency/MPS 1.4 compliant
L2 cache - features	512KB or 1MB std/max integrat	ed in each Pentium Pro / write	-back / 4 way set associa	ative
Memory - std / max Memory - DIMMs Memory - card Memory - install Memory - ECC	256MB std / 4GB max / 16 socke 60ns / 72 pin industry standard I All memory DIMMs installed into Memory must be installed in sets Error Checking and Correcting	DIMMs / fast page mode / 4 wa one standard memory card (r s of 4 identical DIMMs per ban	ny memory interleaving on the control on motherboard) with lak (so three different DIM	16 sockets
SCSI disk controller Transfer rates Raid levels Adapter vendor / chip Channels / connectors SCSI cabling	 Two 16-bit cables from AIC-78 One 16-bit cable with 4 drops fenhanced IDE controller in 8209 	MB/sec on SCSI bus SSA or SCSI RAID adapter) rollers on motherboard / both v 5 devices maximum; Each: 180's to two backplanes for the 5.25" bays; attach to 781-AIP chip / one two drop IDE	54.12GB with twelve 4 use PCI Bus 1 internal (16-bit); no exte 80 if not using a backpla cable from IDE controlle	er to CD-ROM
Architecture 32-bit slots / available Bays / available	82091-AIP on EISA bus for diske 10 slots (all 32-bit) / 6 PCI slots a	ette, serial, parallel, IDE / one available / 3 EISA slots availab <mark>/ 12 bays support hot-swap o</mark>	IDE connector / I20 read ble (Adv Mgmt Adapter in disks / five 5.25" HH bay	n one slot; see below) s (1 used) / one 3.5" SL bay (diskette)
LAN adapter CD-ROM Diskette drive Serial / parallel port Graphics controller	3.5" 1.44MB diskette drive / dus	et cover / diskette cable has a s / 56Kbps	second drop with card ed P/EPP) / IEEE 1284 star	ndard / 2MB/sec maximum speed
Security	User password (not power-on) / intrusion switches (top and front mouse) / diskette and CD-ROM	covers) / intrusion logging / se	ecure mode (disables pov	wer on and reset button, keyboard,
Systems management LCD information panel Indicator LEDs Software	PC Server Advanced Systems console and management / pow Intelligent front panel / two 16 of LEDS for power failure, cooling for ServerGuide™ - CD-ROM install Lotus® Domino® Release 4.6 Ser Lotus Domino Intranet Starter Pa PowerChute Plus / includes Netf	er on/off system / monitors ten character lines of status info fan failure, disk failure lation and configuration utilities rver (single processor edition) lick 1.0, IBM AntiVirus, and APC	PC Server 704 SMP Netfinity PPro 200Ml Netfinity PPro 200Ml 256MB Memory Kit (4) 512MB Memory Kit (4)	nassis intrusion, power supply 200 512KB L2 Upgrade 94G678 Hz 1MB L2 Proc Upgrade 94G7147 Hz 1MB Processor Card 94G7387 4 x 64MB DIMMs) 94G7384 4 x 128MB DIMMs) 94G7385
BIOS Keyboard / mouse Power supply Fans Other features	512KB in Flash EEPROM on the Tower: IBM 101 key keyboard / Std: Two 400 watt hot-swap; I Requires minimum of two / a thir Universal (voltage sensing) / fan Three hot-swap redundant fan if more than one fails, system au fan failure signals indicator LED Plug and play BIOS / I2C diagno	e planar board (AMI™ BIOS) IBM Enhanced mouse (400 d Max: three 400 watt hot-swa d backs up two power supplie is in each power supply / PFA as / access from top cover / itomatically shuts off / PFA and Adv Sys Mgmt Adpt	pi) Netfinity 400W Hot-St 4.51GB² Wide Ultra St 9.1GB Wide Ultra St SCSI controller to Bu Netfinity Backplane F Netfinity 7000 Tower	Il Wide Ultra SCSI Adaptr wap Redundant Power II SCSI SCA-2 disk with tray SCSI SCA-2 disk with tray SI SCA-2 disk with tray Julkhead Cable (to cut out) Repeater Kit to Rack Conversion Kit to Tower Conversion Kit ver III 76H3584 01K7951 94G7429 94G7429 94G7425 94G7427
panel and removabl ⇒ Tower dimensions: ⇒ Rack dimensions: ⇒ Removeable top co	emovable door to access front le media H 19" x W 19" x D 26"; 120 lbs H 19" x W 16.5" x D 24"; 120 lbs ver and two side covers nemory, processorsfrom top Black color Rugged castors Supports up to three NetBAY3 units on bottom A1 A2 A3 A4 A5 A6 Bank A: 6 SL 3.5" bays or 3 HH 3.5" bays Bank B: 6 SL 3.5" bays or 3 HH 3.5" bays	Slot 2: fullsize, 32-bit EIS Slot 3: fullsize, 32-bit EIS Slot 4: fullsize, 32-bit PC Slot 5: fullsize, 32-bit PC Slot 6: fullsize, 32-bit PC Slot 8: fullsize, 32-bit PC Slot 9: fullsize, 32-bit PC Slot 10: fullsize, 32-bit PC *** used by Adv Sys Mgmt A ** A Setup Program is availab startup System Configuration Utility CD-ROM (info saved to NV overrides Setup Program)	Adapter le by pressing F1 at y pressing CTRL+A	VARRANTY SERVICE SUPPORT 3 year parts and labor warranty³ International Warranty Service³ On site warranty all 3 years All cities in all states 8 am - 5 pm, Mon- Fri coverage Next business day response time On site warranty upgrade options: • 24 hr / 7 day coverage, 4 hour response³ time • 24 hr / 7 day coverage, 2 hour response³ time (in eligible locatns) 90-day IBM Start Up Support IBM SystemXtra™ 24 hour / 7 day telephone¹⁴, bulletin board, fax, electronic, and Internet (www.pc.ibm.com/server) support IBM or reseller warranty/service

IBM® Netfinity®:	Rack 1 x Pentium II Xeon open bay	Rack 1 x Pentium II Xeon open bay	Rack 1 x Pentium II Xeo open bay	Rack n 1 x Pentium II) open bay	Rack Keon 1 x Pentium II Xeon open bay
Type - model Mechanical Rack / conversion Disk - standard Disk - bays Avail / withdrawn date	8680-1RU EIA 19" rack models (Rack systems supporte None / supports 10,000	18680-2RU 11U4) ed in IBM Netfinity Rack 0 rpm disks luded (disks ship with tra	or Netfinity NetBAY2	8680-4RU 2 / kit available to co	I8680-5RU nvert rack to tower (inc 4 castors) ane / SAF-TE 1.0 compliant
Intel® processor(s) L2 cache - features Processor upgrade(s) Features	4-way SMP / up to four Two Intel 82371 APICs CPU Backplane contain	1MB / full speed Pentium II Xeon or Pen s on I/O planar / MPS 1 ns four Intel Slot 2's, 450	.4 compliant DNX MIOC, two memo	1MB / full speed ors (same speed/car ory slots, and four I20	che size)
Memory - std / max Memory - std DIMMs Memory - type Memory - cards Memory - DIMMs	168-pin EDO DIMMs / § One memory card std / each card has one 8245	I4 x 64MB DIMMs erro 50ns / 3.3v / gold connectivo cards max / each c 52NX RCG, two 82453N	rs on same chip) by a ctors / Error Checkin card has 16 sockets / A X MUXs / supports A	replacing DIMMs wit g and Correcting (E 4GB max per card / ddress Bit Permutin	chipkill) memory (fixes 1 to 4-bit th 512MB Adv Mem Expansion Ki ECC) memory and mem controller g and Card to Card for 8 or 16 way 6 64, 128, 512MB DIMMs
SCSI disk controller Raid levels SCSI Implementation Connectors SCSI cabling IDE controller / cabling	None standard Integrated on I/O Funct One 68-pin connector in One 16-bit cable to four	r bay backplane	PCI Bus 1 HDCI connector exte	72.8GB with four 18 rnal / each channel s	nternal disk capacity: .2GB ² Wide Ultra SCSI disks supports up to 15 devices DE controller to CD-ROM
Architecture I/O Function Card Slots	IBM PCI-to-PCI Bridge NS PC97317VUL Supe I/O Function Card has of 12 hot-swap 33MHz PC	er I/O / I₂O ready controllers for SVGA, Su CI slots ¹⁰ available with	ouses numbér 0, 1, 4, uper I/O, and SCSI / ir power and attention	, 10 to allow hot plug ntegrates PCI-to-PCI indicator lights (op	A Bridge, USB) / of PCI-to-PCI bridge adapters / bridge for SCSI and PCI slot 13 brical sensors control power to slot I Hot-Plug Specification 1.0
LAN adapter CD-ROM / Diskette Ports Graphics controller	Two 9-pin serial / one 2	D-ROM / IDE interface o 5-pin parallel / two USB	/ one keyboard / one	mouse / one SVGA	ive: 3.5" 1.44MB / dust cover (all in rear) to 1024x768 at 266 colors at 85Hz
Security					/ selectable drive-startup / keyboa read/write access, dial back)
Systems management Diagnostics LCD information panel Software	and RS 485 bus connersystem, temperature, c Light-Path Diagnostic Intelligent front panel ServerGuide TM (CD-RC Lotus® Domino® Applic version) plus five client	ctors / provides remote of disks, fans, power supp ss providing LED map to	console and mgmt / pi ly / NS LM78 of failing part of status info iguration utilities), (Windows NT Virus, and APC	ower on/off system / 6MB Memory Expar 2MB Memory Expar B Memory Expansio 2MB Adv Memory E	nsion Kit (4x128MB) 01K804 on Kit (4 x 256MB) 01K804 xpansion Kit (chipkill) 28L473 mory Expansion Card 01K800 dz/512KB Proc Upg 01K800
Upgradeable EEPROMs Keyboard / mouse Hot-swap power supplies Fans	None standard (since the standard stand	raded locally and remot	and Mgmt tely Max: Three the configuration / ver supply / / PFA front for cpu apter area / Pe	ntium II Xeon 450MI- ntium II Xeon 450MI- ntium II Xeon 500MI- ntium III Xeon 500MI- ntium III Xeon 500MI- ntium III Xeon 550MI- ntium III Xeon 550MI- ntium III Xeon 550MI- ntium III Xeon 550MI-	Hz/512KB Proc Upg 10L589 Hz/1MB Proc Upg 10L589 Hz/2MB Proc Upg 10L589 HHz/512KB Proc Upg 28L473 HHz/1MB Proc Upg 28L473 HHz/2MB Proc Upg 33L510 HHz/1MB Proc Upg 33L510
panel and removabl Dimensions: H 19.2 Top, front, and rear Access adapters fro	movable door to access e media 25" x W 17.3" x D 25.3"; access im top d processors from front A1 Bank A: Four 1 SL 3.5" bays or high HH 3.5" ba (all Hot-Swap) Black color 4 removable l (If convert to tower) supporture NetBAN	front Slot 1: fullsize, Slot 2: fullsize, Slot 3: fullsize, Slot 4: fullsize, Slot 5: fullsize, Slot 6: fullsize, Slot 7: fullsize, Slot 7: fullsize, Slot 8: fullsize, Slot 10: fullsize, Slot 10: fullsize, Slot 11: fullsize, Slot 12: fullsize, Slot 12: fullsize, Slot 13: fullsize, Slot 15: fullsize, Slot 5: fullsize, Slot 7: fullsize, Slot 10: fullsize, Slot 13: f	64-bit 33MHz PCI, Ho 32-bit 33MHz PCI, Bu vanced Remote Mgmt ram is available by pre gnostics (PC Doctor)	tt-swap, Bus 10 tt-swap, Bus 4 tt-swap, Bus 0 tt-swap, Bus 10 tt-swap, Bus 4 tt-swap, Bus 6	ARRANTY SERVICE SUPPORT year parts and labor warranty nternational Warranty Service on site warranty all 3 years all cities in all states am - 5 pm, Mon- Fri coverage lext business day response time on site warranty upgrade options: 24 hr / 7 day coverage, 4 hour response ⁷ time 24 hr / 7 day coverage, 2 hour response ⁷ time (in eligible locatn IBM Start Up Support" BM SystemXtra ^{TM16} 4 hour / 7 day telephone ¹⁴ , bulleti oboard, fax, electronic, and Interne- www.pc.ibm.com/server) support BM or reseller warranty/service

IEM Netfinity® 7000 M10 (Winter 1999) - withdrawn

IBM® Netfinity®:	Rack 1 x Pent III Xeon 500MHz open bay	Rack 1 x Pent III Xeon 500MHz open bay	Rack 1 x Pent III Xeon 500 open bay	DMHz
Type - model Mechanical Rack / conversion Disk - standard Disk - bays Avail / withdrawn date	8680-6RY EIA 19" rack models (11U ⁴) Rack systems supported in I None / supports 10,000 rpm	8680-7RY BM Netfinity Rack products / Idisks	8680-8RY kit available to convert	ackplane / SAF-TE 1.0 compliant
Intel® processor(s) L2 cache Processor upgrade(s) Features	512KB / full speed 4-way SMP / up to four Pent Two Intel 82371 APICs on I/CPU Backplane contains fou	MHz¹ with 100MHz system b 1MB / full speed tium III Xeon 500MHz or 550N O planar / MPS 1.4 compliant r Intel Slot 2's, 450NX MIOC, to Xeon in Single Edge Contact (2MB / full speed //Hz processors (same wo memory slots, and fo	•
Memory - std / max Memory - std DIMMs Memory - type Memory - cards Memory - DIMMs	One memory card std / two c each card has one 82452NX	on same chip) by re 3.3v / gold connectors / Error ards max / each card has 16 s	placing DIMMs with 51. Checking and Correct ockets / 4GB max per c pports Address Bit Peri	muting and Card to Card for 8 or 16 way
SCSI disk controller Raid levels SCSI Implementation Connectors SCSI cabling IDE controller / cabling	One 16-bit cable to four bay b	ard / controller on PCI Bus 1 al and one .8mm VHDCI conne packplane	72.8GB with fo	num internal disk capacity: our 18.2GB² Wide Ultra SCSI disks nnel supports up to 15 devices from IDE controller to CD-ROM
Architecture I/O Function Card Slots	IBM PCI-to-PCI Bridge (27-8 NS PC97317VUL Super I/O I/O Function Card has contro 12 hot-swap 33MHz PCI slots	/ I ₂ O´ready :llers for SVGA, Super I/O, and s¹º available with power and a	er 0, 1, 4, 10 to allow ho SCSI / integrates PCI-t attention indicator ligh	E, ISA Bridge, USB) / t plug of PCI-to-PCI bridge adapters / o-PCI bridge for SCSI and PCI slot 13 ts (optical sensors control power to slot) s / PCI Hot-Plug Specification 1.0
LAN adapter CD-ROM / Diskette Ports Graphics controller	Two 9-pin serial / one 25-pin SVGA / S3® Trio64V2/GX / ir	parallel / two USB / one keyboontegrated on I/O Function Card	ard / one mouse / one S / 1MB SGRAM std/max	c / up to 1024x768 at 266 colors at 85Hz
Security				osure / selectable drive-startup / keyboard nly or read/write access, dial back)
Systems management Diagnostics LCD information panel Software	and RS 485 bus connectors / system, temperature, disks, f Light-Path Diagnostics pro Intelligent front panel / two ServerGuide™ - CD-ROM ins Lotus® Domino® Application 9 Version) plus five client licens	provides remote console and I ans, power supply / NS LM78 h viding LED map to failing part (16 character lines of status info stallation and configuration utiliti Server Release 5 (Windows N	mgmt / power on/off sys nardware monitor (voltage under top cover) / Inform 256MB Memory 512MB Memory 1GB Memory Ex 512MB Adv Mem	
Upgradeable EEPROMs Keyboard / mouse Hot-swap power supplies Fans	Two can provide redundancy Universal (voltage sensing) / Each power supply has indiv Four hot-swap redundant f cpu and memory area / two	locally and remotely k) ax: Three (four bays available) of dependent upon the configurati fans in each power supply / vidual power cord / PFA	Pentium III Xeon Pentium III Xeon Pentium III Xeon Pentium III Xeon III Xeon Pentium III Xeon Pentium III Xeon Pentium III Xeon 7000 M10 Rack- 400W Hot-Swap ea / Netfinity 7000 M	500MHz/512KB Proc Upg 28L4733 500MHz/1MB Proc Upg 28L4735 500MHz/2MB Proc Upg 33L5107 550MHz/512KB Proc Upg 33L5108 550MHz/1MB Proc Upg 33L5108 550MHz/2MB Proc Upg 01K8005 to-Tower Conversion Kit 01K7951 Redundant Power II 01K7952 10 Dual Cord Power Unit 01K7952
panel and removabl Dimensions: H 19.2 Top, front, and rear Access adapters fro Access memory and	movable door to access front e media 25" x W 17.3" x D 25.3"; 120 lb access om top d processors from front A1 A2 Bank A: Four 1" high SL 3.5" bays or two 1 high HH 3.5" bays (all Hot-Swap) Black color 4 removable handle (If convert to tower) supports up three NetBAY3 unit	Slot 1: fullsize, 64-bit 33MH Slot 2: fullsize, 64-bit 33MH Slot 3: fullsize, 64-bit 33MH Slot 4: fullsize, 64-bit 33MH Slot 5: fullsize, 64-bit 33MH Slot 6: fullsize, 32-bit 33MH Slot 7: fullsize, 32-bit 33MH Slot 8: fullsize, 32-bit 33MH Slot 10: fullsize, 32-bit 33MH Slot 10: fullsize, 32-bit 33MH Slot 11: fullsize, 32-bit 33MH Slot 12: fullsize, 32-bit 33MH Slot 13: fullsize, 32-bit 33MH Slot 10: fullsize, 32-bit 33MH	z PCI, Hot-swap, Bus 10 z PCI, Hot-swap, Bus 4 z PCI, Hot-swap, Bus 0 z PCI, Hot-swap, Bus 0 z PCI, Hot-swap, Bus 0 z PCI, Bus 1 *** ote Mgmt Adapter ble by pressing F1 at Doctor) by pressing sis alerts on disks, y, processors, VRMs,	LIMITED WARRANTY 3 year parts and labor warranty³ International Warranty Service³ On site warranty all 3 years All cities in all states 8 am - 5 pm, Mon- Fri coverage Next business day average response time On site warranty upgrade options: • 24 hr / 7 day coverage, 4 hour average response 7 time • 24 hr / 7 day coverage, 2 hour average response 7 time (in eligible locations) "IBM Start Up Support" IBM SystemXtra®. 16 24 hour / 7 day telephone 14, fax, electronic, and Internet (www.pc.ibm.com/server) support IBM or reseller warranty/service

IEM Netfinity® 7000 M10 (Summer 1999) - withdrawn

IBM [®] Netfinity [®] :	Rack 1 x Pentium III Xeon open bay	Rack 1 x Pent III Xeon open bay	Rack 1 x Pent III Xo open bay	Rack eon 1 x Pent I open bay		Rack 1 x Pent III Xeon open bay
Type - model Mechanical Rack / conversion Disk - standard Disk - bays Avail / withdrawn date	· · · · · · · · · · · · · · · · · · ·	8680-2SY 1U ⁴) in IBM Netfinity Rack pm disks ded (disks ship with tra	R680-3SY	8680-11Y ailable to convert rac A-2 connectors / 1 ba	ck to tower (i	R680-21Y nc 4 castors) AF-TE 1.0 compliant
Intel® processor(s) L2 cache Processor upgrade(s) Features	1 x Pentium® III Xeon™ 512KB / full speed 4-way SMP / up to four I Two Intel 82371 APICs of CPU Backplane contains One Slot 2 used by stand	1MB / full speed Pentium III Xeon 550M n I/O planar / MPS 1.4 o four Intel Slot 2's, 450N	2MB / full spe Hz processors (compliant XX MIOC, two ma	same speed/cache s emory slots, and four	ize) ['] I2C thermal	
Memory - std / max Memory - std DIMMs Memory - type Memory - cards Memory - DIMMs	4 X 64MB DIMMs memor	ing DIMMs with 512ME Ons / 3.3v / gold connective on cards max / each card	rs on same chip) B Adv Mem Expa ctors / Error Che ard has 16 sock X MUXs / suppo	by 4 x 128MI ecking and Correcting ets / 4GB max per cates the Address Bit Permi	B DIMMs ng (ECC) me ard / uting and Ca	rd to Card for 8 or 16 way
SCSI disk controller SCSI Implementation Connectors SCSI cabling IDE controller / cabling	Adaptec® AIC-7895 / two Integrated on I/O Function One 68-pin connector int One 16-bit cable to four Enhanced IDE controller	on Card / controller on I cernal and one .8mm V bay backplane	PCI Bus 1 HDCI connector	external / each char	r 18.2GB Wi nnel support	de Ultra SĆSI disks s up to 15 devices
Architecture I/O Function Card Slots	Intel 450NX PCIset (824 IBM PCI-to-PCI Bridge (2 NS PC97317VUL Super I/O Function Card has co 12 hot-swap 33MHz PCI Hot replace, hot upgrad	27-82353) / four PCI bu I/O / I ₂ O ready ntrollers for SVGA, Sup slots ¹⁰ available with p e	uses number 0, 1 per I/O, and SCS ower and attent	, 4, 10 to allow hot p I / integrates PCI-to-F ion indicator lights	lug of PCI-to PCI bridge fo (optical sens	p-PCI bridge adapters / or SCSI and PCI slot 13 sors control power to slot)
LAN adapter CD-ROM / Diskette Ports Graphics controller	No NIC controller or adap CD-ROM: 32X-14X ⁶ CD- Two 9-pin serial / one 25- SVGA / S3 [®] Trio64V2/G)	ROM / IDE interface off pin parallel / two USB /	one keyboard /	one mouse / one SVC	A (all in rea	r)
Security	Power-on and administra password / Advanced Re					ole drive-startup / keyboard e access, dial back)
Diagnostics	Netfinity Advanced Sys and RS 485 bus connector system, temperature, disk Light-Path Diagnostics Intelligent front panel / t ServerGuide™ - CD-ROM Lotus® Domino® Application Version) plus five client light PowerChute Plus / include	ors / provides remote cooks, fans, power supply / providing LED map to f two 16 character lines of hinstallation and configon Server Release 5 (Venses ¹⁸ , AntiVirus, and conserver supplements of the conses ¹⁸ , AntiVirus, and conserver Release 5 (Venses ¹⁸ , AntiVirus,	onsole and mgm 'NS LM78 hardw ailing part (unde of status info uration utilities, Windows NT d APC	:/ power on/off syster are monitor (voltage, top cover) / Informat 256MB Memory Exp 512MB Memory Exp 1GB Memory Expar 512MB Adv Memory	m / monitors temperature ion LED Pan cansion Kit cansion Kit cansion Kit cansion Kit y Expanstion	power status, operating e, fans) el in front (4 x 64MB) 01K8044 (4 x 128MB) 01K8045 x 256MB) 01K8046 n Kit (chipkill) 28L4732
Upgradeable EEPROMs Keyboard / mouse Hot-swap power supplies Fans	2MB EEPROM SurePath Processor can be upgrad None standard (since for Stardard: Two 400 wath Two can provide redunda Universal (voltage sensin Each power supply has i Four hot-swap redunda cpu and memory area / PFA / fan failure signals	a TM BIOS, diagnostics, a ded locally and remote rack) **Max: Three (four bay ancy dependent upon th ng) / fans in each powe ndividual power cord / ant fans / two fans in fro two fans on on top for	and Mgmt ely s available) e configuration / er supply / PFA ont for adapter area /	Netfinity 7000 M10 NetBAY3 (3U pedes Netfinity 18.2GB Wi	50MHz/512K 50MHz/1MB 50MHz/2MB Tower Conv Swap Redu Dual Cord F stal on botto de Ultra SC	B Proc Upg 33L5107 Proc Upg 33L5108 Proc Upg 33L5109 ersion Kit 01K8005 ndant Power III 01K7951 rower Unit 01K7952 m) 10L6912
panel and removabl Dimensions: H 19.2 Top, front, and rear Access adapters fro	movable door to access frue media 25" x W 17.3" x D 25.3"; 12 access om top d processors from front A1 A2 Bank A: Four 1" r SL 3.5" bays or tw high HH 3.5" bays (all Hot-Swap) Black color 4 removable ha (if convert to tower) supports three NetBAY3	Slot 1: fullsize, 6 Slot 2: fullsize, 6 Slot 3: fullsize, 6 Slot 4: fullsize, 6 Slot 5: fullsize, 6 Slot 6: fullsize, 6 Slot 7: fullsize, 6 Slot 8: fullsize, 6 Slot 9: fullsize, 6 Slot 10: fullsize, 6 Slot 11: fullsize, 6 Slot 12: fullsize, 6 Slot 12: fullsize, 6 Slot 13: fullsize, 6 Slot 12: fullsize, 6 Slot 13: fullsize, 6 Slot 12: fullsize, 6 Slot 13: fullsize, 6 Slot 12: fullsize, 6 Slot 12: fullsize, 6 Slot 13: fullsize, 6 Slot 12: fullsize, 6 Slot 12: fullsize, 6 Slot 13: fullsize, 6 Slot 2: fullsize, 6 Slot 3: fullsize, 6 Slot 3: fullsize, 6 Slot 4: fullsize, 6 Slot 5: fullsize, 6 Slot 5: fullsize, 6 Slot 6: fullsize, 6 Slot 7: fullsize, 6 Slot 8: fullsize, 6 Slot 9: fullsize, 6 Slot 9: fullsize, 6 Slot 9: fullsize, 6 Slot 8: fullsize, 6 Slot 9:	64-bit 33MHz PCI 32-bit 33MHz PCI 33-bit 33MHz PCI 34-bit 33MHz PCI 35-bit 35MHz PCI 36-bit 35MHz PCI 37-bit 35MHz PCI 38-bit	Hot-swap, Bus 10 Hot-swap, Bus 10 Hot-swap, Bus 4 Hot-swap, Bus 0 Hot-swap, Bus 4 Hot-swap, Bus 6 Hot-swap, Bu	3 year par linternation On site wa All cities in 8 am - 5 pi Next busin response On site wa • 24 hr / 7 average (in eligib "IBM Start IBM Syste 24 hour / 7 electronic (www.pc.ii	m, Mon- Fri coverage ness day average time tirranty upgrade options: day coverage, 4 hour response ⁷ time day coverage, 2 hour response ⁷ time le locations) t Up Support"

IBM Netfinity® 7100 - withdrawn

IBM® Netfinity®	Tower / NetBAY3 1 x Pentium III Xeon open bay	Rack 1 x Pentium III Xeon open bay	Tower / NetBAY3 1 x Pentium III Xeon open bay	Rack 1 x Pentium III Xeon open bay
Type - model Mechanical Rack / conversion Disk - capacity / bays Avail / withdrawn date		/ no trays incĺuded (disks ship	8666-21Y Tower 5 / kits available to convert ra 5 w/ trays) / 80-pin SCA-2 con	
Intel® processor(s) L2 cache Implementation Processor upgrade(s) Mechanical	4-way SMP / to four identical planned upgradeability to heach processor has one VF	2 cache integrated in Single l al Pentium III Xeon™ Slot 2 (S iigher speed Intel processors	s; detáiled info will be provide e Memory Board slot, six PCI	
Mem - std / max / type Memory - sockets Memory - features Memory - support Chipkill upgrade	One Memory Board std and SDRAM / 100MHz / sixteen Supports registered SDRA	l max / 16 sockets / 12 availa · 168-pin gold-plated DIMM 3 M ECC DIMMs only (64, 128	.3 volt sockets / PC100-comp , 256, 512MB, and 1GB)	nd DIMMs) ard) / 4-way memory interleave liant / requires 4 identical DIMMs 0 (also includes 4 Active PCI slots)
Additional cable	No cache / PCI Bus C 32-bi g <i>Channel A:</i> one 0.8mm VH <i>Channel B:</i> 68-pin internal Two-drop 16-bit LVD SCSI	nnels (LVDS 80MB/sec) / eac it 33MHz / controller on Input/ DCI external SCSI connector	ne with 16-bit LVD cable to ho rices in two left bays	
Architecture / chip set Active PCI™ slots Bays	ServerWorks® ServerSet (Frontside Bus interface fro three peer PCI 2.1 buses (, None standard / upgrade to 14 bays total: 10 hot-sw.	III HE chip set / CNB20HE N m PCI bus to North Bridge) / A: 64-bit 66MHz, B: 64-bit 33 4 Active PCI 64-bit slots (like ap disk bays / three 5.25" H	lorth Bridge (PCI 2.2 and me OSB4 South Bridge (EIDE, I MHz, C: 32-bit 33MHz) / NS Netfinity 7600) via Upgrade	Kit 10K2169 (also includes chipkill) 3.5" SL bay (diskette) / see below
Ethernet controller CD-ROM / diskette drv Ports Graphics controller	CD-ROM: 40X-17X ⁶ CD-ROSerial: Three 9-pin (one fo	OM / IDE (ATAPI) /ُ 1.6" HH / t r Mgmt Processor);	One 25-pin; USB: Two Ver 1	ector / 3 LEDs 1.44 MB diskette drive / dust cover .1; Keyboard; Mouse; RS485 mgm to 1024x768 at 256 colors at 85Hz
Security	lock / selectable boot / secu	re mode (disables keyboard	r and top cover mechanical lo and mouse) / diskette, mouse or read/write access, dial bad	
Systems management Diagnostics Software	power on/off system / monit Light-Path Diagnostics™ I ServerGuide™ (CD-ROM in Lotus® Domino® Application version) plus five client licer	tors temperature, disks, fans,	power supply ailing part (under top cover) / ilities). Inux 64MB SDRAM 100M 128MB SDRAM 100M	Hz ECC DIMM (register) 33L3067 1Hz ECC DIMM (register) 33L3113
UpgradeableEEPROM: Keyboard / mouse Power supply Fans	sBIOS (remote), diagnostics, can be upgraded Tower: IBM 101-key keyb Std: two 250 watt hot-swap; three provide N+1 redundan universal (voltage sensing) Four logical fans / five hotarea, 2 in CPU area) / varia	and Mgmt Processor EEPRo oard / IBM mouse (both blac <i>Max:</i> four 250 watt hot-swap cy for typical config / tool-free / fans in each power supply / swap fans (2 in disk area, 1 i ble speed / PFA / fan failure s Processor / plus fan in each p	256MB SDRAM 100M 512MB SDRAM 100MH: k) Netfinity 250W Hot-Sw Pentium III Xeon 550 Pentium III Xeon 550 Pentium III Xeon 550 Pentium III Xeon 700 signals Pentium III Xeon 700	
	⇒ Black color ⇒ ACPI 1.0 ⇒ Orange compone and labels indicat hot-swap options ⇒ Suppliers Declara ⇒ Vital Product Data ⇒ Backup BIOS Backplane A: 10 SL 3.5" bays or 7 HH 3.5" bays or 7 HH 3.5" bays Disks not supported in 5.25" bays Maximum internal of	3 lbs Slot 2: full, 64-bit 66MHz Slot 3: full, 64-bit 33MHz Slot 5: full, 64-bit 33MHz Slot 5: full, 64-bit 33MHz Slot 5: full, 64-bit 33MHz Slot 6: full, 6	3.3v PCI, not hot, Bus A 5v PCI, not hot, Bus B 6v PCI, not hot, Bus	LIMITED WARRANTY If year parts and labor warranty If year parts and labor warranty In site warranty all 3 years It cities in all states It am - 5 pm, Mon- Fri coverage It lext business day average It esponse time In site warranty upgrade options: 24 hr / 7 day coverage, 4 hour average response time 24 hr / 7 day coverage, 2 hour average response time (in eligible locations) In day IBM Start Up Support It was start up Support I

IBM Netfinity® 7100 (Spring 2000) - withdrawn

IBM® Netfinity®	Tower / NetBAY3 1 x Pentium III Xeon open bay	Rack 1 x Pentium III Xeon open bay	Tower / NetBAY3 1 x Pentium III Xeon open bay	Rack 1 x Pentium III Xeon open bay
Type - model Mechanical Rack / conversion Disk - capacity / bays Planned availability			8666-41Y Tower / kits available to convert rack o w/ trays) / 80-pin SCA-2 conne	
Intel® processor(s) L2 cache Implementation Processor upgrade(s) Mechanical	4-way SMP / to four identicupgrade to Pentium III Xe Each processor has one V	L2 cache integrated in Single I cal Pentium III Xeon™ Slot 2 (S on 900MHz supported	e Memory Board slot, six PCI slo	
Mem - std / max / type Memory - sockets Memory - features Memory - support Chipkill upgrade	One Memory Board std an SDRAM / 100MHz / sixtee Supports registered SDRA	d max / 16 sockets / 12 availa n 168-pin gold-plated DIMM 3. AM ECC DIMMs only (64, 128,		d) / 4-wav memory interleave
Additional cable	No cache / PCI Bus C 32-bg Channel A: one 0.8mm VI Channel B: 68-pin interna Two-drop 16-bit LVD SCS	annels (LVDS 80MB/sec) / eac bit 33MHz / controller on Input/ HDCI external SCSI connector	ne with 16-bit LVD cable to hot- ices in two left bays	swap backplane
Architecture / chip set Active PCI [™] slots Bays	(Frontside Bus interface fr three peer PCI 2.1 buses None standard / upgrade t 14 bays total: 10 hot-sv	om PCI bus to North Bridge) / (A: 64-bit 66MHz, B: 64-bit 33 o 4 Active PCI 64-bit slots (like vap disk bays / three 5.25" H	OSB4 South Bridge (EIDE, ISA MHz, C: 32-bit 33MHz) / NS PO	t 10K2169 (also includes chipkill) " SL bay (diskette) / see below
Ethernet controller CD-ROM / diskette drv Ports Graphics controller	CD-ROM: 40X-17X ⁶ CD-F Serial: Three 9-pin (one for	ROM / IDE (ATAPI) / 1.6" HH / b or Mgmt Processor);	One 25-pin; USB: Two Ver 1.1	ctor / 3 LEDs 44 MB diskette drive / dust cover ; Keyboard; Mouse; RS485 mgmt 1024x768 at 256 colors at 85Hz
Security	lock / selectable boot / sec	ure mode (disables keyboard	and top cover mechanical lock and mouse) / diskette, mouse, (or read/write access, dial back)	CD-ROM disable /
Systems management Diagnostics Software	power on/off system / mon Light-Path Diagnostics™	itors temperature, disks, fans, Panel providing LED map to finstallation and configuration ut verChute Plus / includes	ailing part (under top cover) / In ilities), Netfinity Active PCI/Chip 64MB SDRAM 100MHz 128MB SDRAM 100MH	formation LED Panel in front okill Upgrade Kit 10K2169 ECC DIMM (register) 33L3067 z ECC DIMM (register) 33L3113
UpgradeableEEPROMs Keyboard / mouse Power supply Fans	can be upgraded Tower: IBM 101-key key Std: two 250 watt hot-swat three provide N+1 redunda universal (voltage sensing) Four logical fans / five hot area, 2 in CPU area) / varia	board / IBM mouse (both blact); Max: four 250 watt hot-swapncy for typical config / tool-free / fans in each power supply / -swap fans (2 in disk area, 1 is able speed / PFA / fan failure services or / plus fan in each p	DMS 512MB SDRAM 100MH; 1GB SDRAM 100MHz E Netfinity 250W Hot-Swap Pentium III Xeon 700MH Pentium III Xeon 700MH Pentium III Xeon 900MH Netfinity 8Ux24D Tower signals Netfinity 8Ux24D Rack to	Hz/2MB Proc Upg II 10K2332 Hz/2MB Proc Upg II 19K4635 -to-Rack Kit 37L6859
Rack or Tower Pack or Tower A1 A2 A3 A4 Diskette CD-ROM HH 5.25" HH 5.25" Optional NetBAY3 pe (supports 2 more NetE	⇒ Black color ⇒ ACPI 1.0 ⇒ Orange compone and labels indical hot-swap options ⇒ Suppliers Declar ⇒ Vital Product Dat ⇒ Backup BIOS Backplane A: 10 SL 3.5" bays or 7 HH 3.5" bays or 7 HH 3.5" bays in 5.25" bays Maximum internal	23 lbs Slot 2: full, 64-bit 66MHz Slot 3: full, 64-bit 33MHz Slot 4: full, 64-bit 33MHz Slot 5: full, 64-bit 33MHz Slot 6: full, 64-bit 33MHz Slot 7: full, 64-bit 33MHz Slot 8: Setup Program is avail startup; Diagnostics (PF2 at startup; CTRL+A Removeable top cover Access adapters, mem Predictive failure analy by Adv System Mgmt FDirector for DIMM(s), ppower supply(s), disk(s) disk capacity: 6.4GB SL hot-swap SCSI disk	3.3v PCI, not hot, Bus A 5v PCI, not hot, Bus B 6v PCI, not hot, Bus B 7v PCI, not hot, Bus B 8v PCI, not hot, Bus B 7v PCI, not hot, Bus B 8v PCI, not hot, Bus	LIMITED WARRANTY ear parts and labor warranty ³ ernational Warranty Service ³ site warranty all 3 years cities in all states m - 5 pm, Mon- Fri coverage ct business day average ponse time site warranty upgrade options: 4 hr / 7 day coverage, 4 hour verage response ⁷ time 4 hr / 7 day coverage, 2 hour verage response ⁷ time n eligible locations) I Server Start Up Support I SystemXtra ^{®, 16} hour / 7 day telephone ¹⁴ , fax, ctronic, and Internet ww.pc.ibm.com) support I or reseller warranty/service

IIM Netfinity® 7600 - withdrawn

IBM® Netfinity®:	L2	ECC Disk	SCSI controlle	re Mochanio	al Clote v have	Hot-swap	Available date
Type-model Qnty x Pro 8665-1RY 1 x Xeon™ 8665-2RY 1 x Xeon 70 8665-3RY 1 x Xeon 70 8665-5RY 1 x Xeon 70	550/100 1MB 512MB 50/100 2MB 512MB 00/100 2MB 512MB 00/100 1MB 512MB	Chipkill™ None Chipkill None Chipkill None Chipkill None	ServeRAID™-3HB, ServeRAID-3HB, A ServeRAID-3HB, A ServeRAID-4M, AIG ServeRAID-4M, AIG	AIC-7896 8U rack IC-7896 8U rack IC-7896 8U rack C-7896 8U rack	6 slots x 14 t 6 slots x 14 t 6 slots x 14 t 6 slots x 14 t	pays (10 hs) pays (10 hs) pays (10 hs)	Mar 2000 Mar 2000 Jun 2000 Oct 2000
Intel® processor(s) L2 cache Implementation Processor upgrade(s) Mechanical	1 x Pentium® III Xeon 1MB or 2MB / full spectach processor with E 4-way SMP / to four ion upgrade to Pentium II Each processor has on VRM slots (all removal	TM 550 or 700MHz ¹ ed CC L2 cache integrientical Pentium III i I Xeon 900MHz sune VRM / Processo	with 100MHz Front S rated in Single Edge C Keon™ Slot 2 (SC330) pported r Board has one Mem	contact (SEC) car CPUs / ory Board slot, six	tridge in Intel Slo	t 2	
Mem - std / max / type Memory - sockets Memory - support	· · · · · · · · · · · · · · · · · · ·	nax / Chipkill™ mu led by memory cont d and max / 16 soc xteen 168-pin gold-	Itibit error correction uroller and firmware kets / 12 available (foplated DIMM 3.3 volt	sing ind std ECC ur 128MB DIMMs sockets / PC100-o	standard) / 4-wa	ıy memory ir	nterleave
SCSI controller SCSI channels ServeRAID cache / bus Adaptec cache / bus Connectors and cabling Additional cable IDE controller / cabling Disk - capacity / bays	ServeRAID-3HB: 32 ServeRAID-4M: 64 Adaptec AIC-7896: N ginternal channel of Se External channels of 5 Two-drop 16-bit LVD \$	AIC-7896: Wide Ult fide Ultra160 SCSI of MB std/max with 3: MB ECC std/max bocache / PCI Bus of rveRAID: 68-pin i ServeRAID: two 0.8 SCSI cable included ler / one drop IDE c	ra2 SCSI channels (L channels (LVDS 160M 2MB mirrored battery- pattery-backup cache C 32-bit 33MHz / contint on -3HB, 2 mm VHDCI connector I to support devices in able from one IDE con	VDS 80MB/sec) / MB/sec) / each chibackup cache / P / PCI Bus B 64-biroller on Input/Out on -4M) with 16-tiroller on rear of adapt two left bays nnector to CD-RC	each channel suannel suannel supports 1 CI Bus B 64-bit 3 t 33MHz put Board bit LVD cable to later M	ipports 14 de 4 devices 33MHz not-swap ba	evices É
Mechanical Rack / conversion	EIA 19" rack (8U ⁴) Rack systems suppor ServerWorks® Serve (Frontside Bus interfa three peer PCI 2.1 bu 4 hot-swap PCI slots Active PCI via hot re 14 bays total: 10 hot-	ted in IBM Netfinity rSet III HE / CNB20 ce from PCI bus to ses (A: 64-bit 66MH 10 with power and a blace, hot upgrade,	Rack products / kits DHE North Bridge (PC North Bridge) / OSB4, 1z, B: 64-bit 33MHz, ttention indicator light hot expansion (see b	available to convolute to convo	ert rack to tower y controller) / Clo DE, ISA Bridge, / NS PC97317V control power to	or tower to OB I/O Bridg JSB, SMBus UL Super I/O slot) /	rack je s, IOAPIC) /
Ethernet controller CD-ROM / diskette drv Ports Graphics controller	AMD® Am79C975 / or CD-ROM: 40X-17X6 (Serial: Three 9-pin (o SVGA / PCI Bus C / S	CD-ROM / IDE (ATA one for Mgmt Proce	.PI) / 1.6" HH / bootabl ssor); <i>Parallel:</i> One 2	le; <i>Diskette drive.</i> 5-pin; <i>USB:</i> Two	· 3.5" 1.44 MB dis Ver 1.1; Keyboai	skette drive / d; Mouse; R	S485 mgmt
Security	Power-on password / mgmt security (user lo) / systems
Systems management Diagnostics Software	Netfinity Advanced S processor) / on planar power on/off system / power supply Light-Path Diagnosti failing part (under top ServerGuide™ (CD-R Norton AntiVirus, APC Netfinity Director™ and	/ provides remote of monitors temperatu cs™ Panel providin cover) / Information OM installation and PowerChute Plus /	console and mgmt / ire, disks, fans, g LED map to LED Panel in front configuration utilities),	Pentium III Xeon Pentium III Xeon	100MHz ECC DI 100MHz ECC DI 0MHz ECC DIMN ot-Swap Redunc 550MHz/1MB P 550MHz/2MB P 700MHz/1MB P 700MHz/2MB P	MM (register) MM (register) I (register) I Power Sup roc Upg II roc Upg II roc Upg II roc Upg II	f) 33L3115 f) 33L3117 33L3119 33L3760
Keyboard / mouse Power supply	None since rack syste Std: three 250 watt hot three provide N+1 reduniversal (voltage sen Four logical fans / sev	-swap; <i>Max:</i> four 25 undancy for typical c sing) / fans in each en hot-swap redur	onfig / tool-free install / power supply / PFA ndant fans (3 in	Pentium III Xeon Netfinity 8Ux24D Netfinity 8Ux24D IBM Netfinity Net IBM Netfinity Rac	Tower-to-Rack Rack-to-Tower BAY3	Kit	19K4635 37L6859 37L6860 10L6912 9306900
	disk area, 2 in slot are PFA / fan failure signa Processor / plus fan in	ls Diagnostic LED a	and Mgmt		3 year parts		arranty ³
Dimensions: H 13.8 W 17.3" x D 27.6"; Weight: 91 to 1: Rack	⇒ ACPI 1.0 ⇒ Orange com and labels ir hot-swap op ⇒ Suppliers De ⇒ Vital Produc ⇒ Backup BIO Backplane A: 10 SL 3.5" b or 7 HH 3.5" Disks not supr in 5.25" bays	Slot 2: ful ponents Slot 3: ful dicate Slot 3: ful dicate Slot 4: ful tons Slot 5: ful eclaration Slot 6*: ful to Data S * Occupie S * Setup P startup; F2 at stabays Panente P Access Predictive Adv Sys Director	I,64-bit 66MHz 3.3v Po I,64-bit 66MHz 3.3v Po I,64-bit 33MHz 5v PCI I,64-bit 33MHz 5v PCI I,64-bit 33MHz 5v PCI I,64-bit 33MHz 5v PCI I,64-bit 33MHz 5v PCI d by 64-bit ServeRAII rogram is available by Diagnostics (PC-Docto artup; CTRL+A for SCS sable top cover adapters, memory, CI re failure analysis: ale tem Mgmt Processor I for DIMM(s), processor upply(s), disk(s), and	Cl, not hot, Bus A, hot swap, Bus B, hot swap, Bus B, hot swap, Bus B b, hot swap, Bus B D adapter pressing F1 at proper by pressing SISelect Utility PUs from top rts generated by or Netfinity pr(s), VRM(s),	• 24 hr / 7 da average re (in eligible IBM Server 9 IBM System 24 hour / 7 delectronic, a	anty all 3 yeall states Mon- Fri co ss day avera ne anty upgraday coverage, sponse time ay coverage, sponse time locations) Start Up Sup Xtra 16 lay telephone and Internet n.com) supp	verage ge e options: 4 hour e 2 hour port e e 14, fax, ort

IBM Netfinity® 8500R - withdrawn

IBM® Netfinity®:	Rack 1 x Pentium III Xeon 550MHz open bay	Rack 1 x Pentium III Xeon 550MHz open bay	Rack 1 x Pentium III Xeon 550MHz open bay
Type - model Mechanical Rack / conversion Disk - capacity Disk - bays Avail / withdrawn date	EIA 19" rack models (8U4) x 28" deep	erchangeable between 8500R and EXP	
Intel® processor(s) L2 cache Processor upgrade(s) Features	8-way SMP / up to eight Pentium III Xe Standard: one Processor Board with for	1MB / full speed on processors (same speed/cache size ur Intel Slot 2 sockets and six integrater nd processor bus) / requires two Cache or buses) / Enablement Kits contain two ne Exp Kit' with one Processor Board th	d VRMs (one processor bus) c Coherency Filter Cards (reduces cache filter cards and one Processor Board / nat requires 'Netfinity 4X
Memory - std / max Memory - std DIMMs Memory - type Memory - cards	256MB / 32GB 2 x 128MB DIMM PC100-compliant 3.3v registered 168-p Error Checking and Correcting (ECC) One Memory Card std (one memory bu 16GB max per card / second card supp) memory and memory controller (Profu s) / two cards max (second memory bu	sion Memory Controller MAC and DIB)
SCSI disk controller SCSI channels SCSI implementation SCSI connectors SCSI cabling IDE controller / cabling	Adaptec® AIC-7897 / no integrated RAIL Two Wide Ultra2 SCSI channels (LVDS 64-bit PCI / integrated on I/O Function C One 68-pin connector internal and one One 16-bit LVD cable to two bay backp Enhanced IDE controller in PIIX4E / one	S 80MB/sec) 72.8GB v Card 72.8GB v 8mm VHDCI connector external / each lane / one 16-bit LVD cable from control	ller to external 68-pin VHDCI connector
Architecture I/O Function Card Slots (Active PCI™)	Intel Profusion® chip set / one midpla four PCI 2.2 buses (four PB64) numbe 64-bit 33MHz PCI adapter / includes co PIIX4E (32-bit PCI Intel 82371AB for E 12 hot-swap PCI slots¹0 available with p Hot replace, hot upgrade, hot expans	red 0, 4, 10, 13 to allow hot-swap of P ntrollers for SVGA (32-bit PCI), SCSI, a IDE, ISA Bridge, USB) / Super I/O (NS power and attention indicator lights (Cİ-to-PCİ bridge adapters nd PC97317VUL on 16-bit ISA) off PIIX4E optical sensors control power to slot) /
LAN adapter CD-ROM / Diskette Ports Graphics controller	No standard NIC controller or adapter <i>CD-ROM:</i> 40X-17X ⁶ CD-ROM / IDE into Two 9-pin serial / one 25-pin parallel / ts SVGA / S3 [®] Trio3D / integrated on I/O F	wo USB / one kevboard / one mouse / o	one SVGA (all in rear)
Security			enclosure / selectable drive-startup / kybrd ad-only or read/write access, dial back)
Diagnostics	Netfinity Advanced System Mgmt PC serial, and RS 485 bus connectors / properating system, temperature, disks, facight-Path Diagnostics Intelligent front panel / two 16 charact ServerGuide™ - CD-ROM installation at Lotus® Domino® Application Server Rele Version) plus five client licenses¹8, AntiV PowerChute Plus / includes Netfinity Marchester Relevant PowerChute Plus / includes Netfinity Marchester Relevant Plus / includes Netfinity Plus / inclu	ovides remote console and mgmt / powers, power supply er lines of status informed configuration utilities, ase 5 (Windows NT irus, and APC removed and provided in the construction of the	apter / includes 10/100 ethernet, dual er on/off system / monitors power status, 3 SDRAM DIMM (registered) II 20L0245 B SDRAM DIMM (registered) II 20L0247 B SDRAM DIMM (registered) II 20L0249 B SDRAM DIMM (registered) II 33L3056 B Memory Card (16 sockets) 28L4454 bn 550MHz/512KB Proc Upg 33L5104
Keyboard / mouse Power supplies	None standard (since for rack) Hot-swap / redundant / std and max: th or 550 watts at 110v / two can provide operating at 220 volts / universal (volta: each power supply / each has individua Six hot-swap redundant fans / three fa area / three fans in middle for memory PFA / fan failure signals Diagnostic LED	ree 750 watt at 220v redundancy if gentium III Xec Pentium III	on 550MHz/2MB Proc Upg 33L5105 on 700MHz/1MB Proc Upg 10K2330 on 700MHz/2MB Proc Upg 10K2166 Enablement Kit (1X SRAM) 28L4730 Enablement Kit (4X SRAM) 28L4727 whine Expansion Kit (four proc) 10K2337 celerator Filter (two 1MB filters) 10K2335
Tool-free top, front, Access adapters fro Access memory, pro Access power suppose Setup Program by positive (PC-Doos Six power cords (9' and three 220v) CD	om top ocessors, and disks from front lies from rear ressing F1 at startup each) included (three 110v Two 1.6" high HH 3.5" bays (both hot-swap) Stealth black color 4 removable handles (lif convert to tower) supports up to three NetBAY3 units on bottom Wired for Mgmt 1.1a Slot 3: f Slot 4: f Slot 5: f Slot 6: f Slot 7: f Slot 7: f Slot 8: f Slot 7: f Slot 7: f Slot 8: f Slot 9: f Slot 10: f Slot 10: f Slot 10: f Slot 10: f Slot 10: f Slot 10: f Slot 10: f Slot 5: f Slot 7: f Slot 7: f Slot 8: f Slot 7: f Slot 7: f Slot 8: f Slot 7: f Slot 8: f Slot 7: f Slot 8: f Slot 7: f Slot 8: f Slot 7: f Slot 8: f Slot 7: f Slot 8: f Slot 7: f Slot 8: f Slot 7: f Slot 8: f Slot 7: f Slot 8: f Slot 7: f Slot 8: f Slot 9: f Slo	fullsize, 64-bit 33MHz PCI, hot-swap, Buse fullsize, 64-bit 33MHz PCI, hot-swap, Buse fullsize, 64-bit 33MHz PCI, hot-swap, Buse fullsize, 64-bit 33MHz PCI, hot-swap, Buse fullsize, 64-bit 33MHz PCI, hot-swap, Buse fullsize, 64-bit 66MHz PCI, hot-swap, Buse fullsize, 64-bit 66MHz PCI, hot-swap, Buse fullsize, 64-bit 66MHz PCI, hot-swap, Buse fullsize, 64-bit 33MHz PCI, hot-swap, Buse fullsize, 32-bit 33MHz PCI, not hot-swap, Buse fullsize, 32-bit 33MHz PCI, not hot-swap, Buse fullsize, 32-bit 33MHz PCI, not hot-swap, Buse fullsize, 32-bit 33MHz PCI, not hot-swap, Buse fullsize, 32-bit 33MHz PCI, not hot-swap, Buse fullsize, 32-bit 33MHz PCI, not hot-s	3 year parts and labor warranty³ International Warranty Service³ On site warranty all 3 years All cities in all states 8 am - 5 pm, Mon- Fri coverage Next business day average response time On site warranty upgrade options: • 24 hr / 7 day coverage, 4 hour average response time • 24 hr / 7 day coverage, 2 hour average response time (in eligible locations) ■ "IBM Start Up Support" ■ IBM SystemXtra®. 16 □ 24 hour / 7 day telephone 14, fax, electronic, and Internet

IEM Netfinity® 8500R (Spring 2000) - withdrawn

IBM [®] Netfinity [®] :	Rack 1 x Pentium III Xeon 700MHz open bay	Rack 1 x Pentium III Xeon 7 open bay	700MHz	
Type - model Mechanical Rack / conversion Disk - capacity Disk - bays Avail / withdrawn	8681-7RY EIA 19" rack models (8U ⁴) x 28" deep Supported in NetBAY Enterprise Racks and current racks with extension options / kit available to convert rack to tower None / supports 10,000 rpm disks / converged tray is interchangeable EXP200/300 and later Netfinity systems Hot-swap / no trays included (disks ship with trays) / 80-pin SCA-2 connectors / common tray with 5600 and EXP200 May 2000 / May 2001 May 2000 / May 2001			
Intel® processor(s) L2 cache Processor upgrade(s) Features	1 x Pentium® III Xeon™ 700/100MHz¹ 1 x Pentium III Xeon 700/100MHz 2MB / full speed 8-way SMP / up to eight Pentium III Xeon processors (same speed/cache size) / two 64-bit 100MHz processor buses / Pentium III Xeon 900MHz upgrade available Standard: one Processor Board with four Intel Slot 2 sockets (one processor bus) Maximum: two Processor Boards (second processor bus) / requires two Cache Coherency Filter Cards (reduces cache snoop bus traffic between two processor buses) / 'Mezzanine Exp Kit' has one Processor Board that requires 'Netfinity® 4X Accelerator Filter' containing two 1MB Cache Coherency Filter Cards (one for each Processor Board)			
Memory - std / max Memory - std DIMMs Memory - type Memory - cards	512MB / 32GB 4 x 128MB DIMM PC100-compliant 3.3v registered 168-pin SDRAM RDIMMs / 100MHz / gold connectors Error Checking and Correcting (ECC) memory and memory controller (Profusion Memory Controller MAC and DIB) One Memory Card std (one memory bus) / two cards max (second memory bus) / each card has 16 sockets / 16GB max per card / second card supports two-way cache line interleaving			
SCSI disk controller SCSI channels SCSI implementation SCSI connectors SCSI cabling IDE controller / cabling	Adaptec® AIC-7897 / no integrated RAID Two Wide Ultra2 SCSI channels (LVDS 64-bit PCI / integrated on I/O Function One 68-pin connector internal and one One 16-bit LVD cable to two bay backpl Enhanced IDE controller in PIIX4E / one	S 80MB/sec) Card .8mm VHDCI connector lane / one 16-bit LVD ca	72.8GB with external / each chable from controller	to external 68-pin VHDCI connector
Architecture I/O Function Card Slots (Active PCI TM)	Intel Profusion® chip set / one midplane (interconnects major buses and components) / four PCI 2.2 buses (four PB64) numbered 0, 4, 10, 13 to allow hot-swap of PCI-to-PCI bridge adapters 64-bit 33MHz PCI adapter / includes controllers for SVGA (32-bit PCI), SCSI, and PIIX4E (32-bit PCI Intel 82371AB for EIDE, ISA Bridge, USB) / Super I/O (NS PC97317VUL on 16-bit ISA) off PIIX4E 12 hot-swap PCI slots¹0 available with power and attention indicator lights (optical sensors control power to slot) / Hot replace, hot upgrade, hot expansion / separated by insulative plastic dividers / PCI Hot-Plug Specification 1.0			
LAN adapter CD-ROM / Diskette Ports Graphics controller	No standard NIC controller or adapter CD-ROM: 40X-17X ⁶ CD-ROM / IDE interface off PIIX4E / 1.6" HH / bootable; Diskette drive: 3.5" 1.44MB / dust cover Two 9-pin serial / one 25-pin parallel / two USB / one keyboard / one mouse / one SVGA (all in rear) SVGA / S3 [®] Trio3D / integrated on I/O Function Card / 4MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz			
Security	Power-on and administrator passwords / mountable in an optional secure rack enclosure / selectable drive-startup / keyboard password / Advanced Remote Management security (user log-in password, read-only or read/write access, dial back)			
Diagnostics	Netfinity Advanced System Mgmt PCI Adapter (service processor) / PCI adapter / includes 10/100 ethernet, dual serial, and RS 485 bus connectors / provides remote console and mgmt / power on/off system / monitors power status, operating system, temperature, disks, fans, power supply / NS Light-Path Diagnostics / primary indicator on information panel with LEDs associated with failing components Intelligent front panel / two 16 character lines of status info ServerGuide™ - CD-ROM installation and configuration utilities AntiVirus, and APC PowerChute Plus / includes IBM Director and others Netfinity 128MB SDRAM DIMM (registered) II 20L0245 Netfinity 128MB SDRAM DIMM (registered) II 20L0245 Netfinity 138 SDRAM DIMM (registered) II Netfinity 138 SDRAM DIMM (registered			
Keyboard / mouse Power supplies Fans	None standard (since for rack) Hot-swap / redundant / std and max: three 750 watt at 220v or 550 watts at 110v / universal (voltage sensing) / fans in each power supply / each has individual power cord / PFA Nine fans / six hot-swap redundant (three fans in front for cpu area, three fans in middle for memory and adapter area) / one fan in each power supply / PFA / fan failure signals Diagnostic LED and mgmt processor Hot-swap / redundant / std and max: three 750 watt at 220v Pentium III Xeon 700MHz/2MB Proc Upg 10K25. Pentium III Xeon 700MHz/2MB Proc Upg 10K25. Pentium III Xeon 700MHz/2MB Proc Upg 10K25. Netfinity 8Ux28D Rack-to-Tower Conversn Kit28L470 Netfinity 8Ux28D Rack-to-Tower Conversn Kit28L470 Netfinity 8Ux28D Rack-to-Tower Conversn Kit28L470 Netfinity 4X Accelerator Filter (two 1MB filters) 10K23: Netfinity 4X Accelerator Filter (two 1MB filters) 10K23: Netfinity 4X Accelerator Filter (two 1MB filters) 10K23: Netfinity 4X Accelerator Filter (two 1MB filters) 10K23: Netfinity 4X Accelerator Filter (two 1MB filters) 10K23: Netfinity 4X Accelerator Filter (two 1MB filters) 10K23: Netfinity 4X Accelerator Filter (two 1MB filters) 10K23: Netfinity 4X Accelerator Filter (two 1MB filters) 10K23:			
Tool-free top, front, Access adapters fro Access memory, pro Access power supp Setup Program by p Diagnostics (PC-Doo Six power cords (9' and three 220v) CD Diskette Rack (can convert to To	om top ocessors, and disks from front lies from rear ressing F1 at startup each) included (three 110v Slot 5: f Slot 6: f Slot 6: f Slot 7: f Slot 8: f Slot 9: f Slot 10: f Slo	iullsize, 64-bit 33MHz PCI iullsize, 64-bit 33MHz PCI iullsize, 64-bit 33MHz PCI iullsize, 64-bit 33MHz PCI iullsize, 64-bit 66MHz PCI iullsize, 64-bit 66MHz PCI iullsize, 64-bit 66MHz PCI iullsize, 64-bit 33MHz PCI	, hot-swap, Bus D, hot-swap, Bus D, hot-swap, Bus D, hot-swap, Bus C, hot-swap, Bus C, hot-swap, Bus B, hot-swap, Bus B, hot-swap, Bus A, hot-swap, Bus A, not-swap, Bus A, not-swap, Bus A, not hot-sw, Bus A, not hot-sw, Bus A, not hot-sw, Bus A and hot-sw, Bus A	LIMITED WARRANTY ⇒ 3 year parts and labor warranty³ ⇒ International Warranty Service³ ⇒ On site warranty all 3 years ⇒ All cities in all states ⇒ 8 am - 5 pm, Mon-Fri coverage ⇒ Next business day average response time ⇒ On site warranty upgrade options: • 24 hr / 7 day coverage, 4 hour average response² time • 24 hr / 7 day coverage, 2 hour average response³ time (in eligible locations) ⇒ "IBM Start Up Support" ⇒ IBM SystemXtra®¹5 ⇒ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com/server) support ⇒ IBM or reseller warranty/service

- MHz and GHz only measures internal clock speed (or bus speed where indicated), not application performance. Many factors affect application performance.
- When referring to a hard drive capacity, GB equals one billion bytes, and TB equals one trillion bytes. Total useraccessible capacity depends on operating environment.
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- ⁴ A single "U", or rack unit, is 1.75" or 44.45mm.
- 5 S.M.A.R.T. stands for Self-Monitoring, Analysis and Reporting Technology.
- ⁶ Variable read rate. Actual playback speed will vary and is often less than the maximum possible.
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- ¹⁰ Updated drivers and hot-swap services for certain operating systems may be required to support PCI hot-swap functions.
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- ¹² Intel uses EB to designate the attributes of these processors. E stands for advanced transfer (full speed) cache and B stands for 133MHz front side bus.
- ¹³ On Netfinity 7100 and 7600, 16GB support with availability of 1GB DIMMS. Manufactured to Netfinity server standards; availability cannot be guaranteed.

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- ¹⁷ For Netfinity 5500 M20, detailed information regarding system requirements to support this processor will be provided at a later date.
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