

IBM PC Institute



Personal Systems Reference
IBM Netfinity
1997 to 2001 - withdrawn

September 2001 - Version 229



IBM Netfinity® A100 Web Server Appliance - withdrawn

IBM® Netfinity® Type-model	Qty x disk / rpm / ms interface	Qty x Intel® Processor MHz¹	L2 cache standard	Memory std / max type	Bus slots	Bays	Mechanical	ethernet	Available date
8652-6YY	2 x 9.1GB Wide Ultra2 SCSI 7200	2 x Pentium III 650/100	256KB full spd	1GB / 2GB SDRAM ECC	PCI=2 1 used by SCSI	3 used 0 empty	1U rack	2 x ethernet	May 2000

Processor SMP support Implementation L2 cache	2 x Intel® Pentium® III 650MHz¹ / 100MHz Front Side Bus 2-way SMP via identical processor Processor and L2 cache in Single Edge Contact Cartridge (SECC2) / two Intel Slot 1 sockets on motherboard 256KB std and max / ECC / full speed / integrated in SECC2								
Memory - std / max Memory - sockets Memory - features	1GB std / 2GB max / Error Checking and Correcting (ECC) memory controller 4 sockets / 0 available (all slots occupied with 256MB DIMM) SDRAM / 100MHz / ECC DIMMs / 168-pin gold-plated DIMM 3.3 volt sockets / PC100-compliant								
SCSI disk controller SCSI connectors RAID support IDE controller Cables	Adaptec® AHA-2940UW / Wide Ultra SCSI (40MB/sec) / single channel / 32-bit PCI adapter Internal 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	Intel 440GX AGPset (PCI 2.1 33MHz 32-bit) / PIIX4E for EIDE (Ultra DMA/33), ISA Bridge (BIOS and Super I/O), and USB / Digital® 21152 PCI-to-PCI bridge for two PCI slots / ITE® IT8671F Super I/O for serial, keyboard, mouse								
Mechanical Bays / available Control Panel	EIA 19" Rack (1U) / rack-mount only / supported in IBM Netfinity Rack products (See diagram below): 3 bays / one 5.25" SL bay / two 3.5" SL bays / no hot-swap support Control Panel in front								
Ethernet controllers	2 x Intel 82559 ethernet controllers / on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / redundant ethernet capability through the connection of both ethernet ports to the same LAN								
CD-ROM / diskette Serial / parallel / USB CMBus connectors Systems mgmt	24X-10X ⁶ CD-ROM; CAV (ATAPI); bootable; IDE / no diskette drive <i>Serial:</i> Two 9 pin <i>Parallel:</i> None <i>USB:</i> Two ports (not supported) Two external CMBus connectors for keyboard, mouse, and video / one cable std / one Console Cable Adapter std System Environmental Monitor / two ST Micro® ST72251 monitors board voltages and temperatures								
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 / IEC power card	System does not support customer installation of adapter, disks, memory, processors, or any other devices that must be installed inside the server.							
Prerequisites	Monitor, keyboard/mouse for setup, rack, power distribution unit, console selector switch	Power Distribution Unit	94G7450						
Ready to install	System is preloaded, preconfigured, and ready to install	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)	28L3621						
		104-key with TrackPoint keyboard	01K1260						

<p>Front (view from top)</p> <p>Back</p>	<p>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)</p> <p>Slot 1: fullsize, 32-bit PCI 2.1 (5v) - SCSI adapter installed Slot 2: halfsize, 32-bit PCI 2.1 (5v)</p> <ul style="list-style-type: none"> ⇨ 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 <p>All models: Max int disk capacity: 36.4GB with two 18.2GB SL SCSI disks</p>	<p>LIMITED WARRANTY</p> <ul style="list-style-type: none"> ⇨ 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^{®16} ⇨ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet support (www.pc.ibm.com)
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IBM Netfinity® 1000 - withdrawn

IBM® Netfinity®	Mini-tower Pentium® III 600 10.1GB	Mini-tower Pentium III 650 10.1GB	Mini-tower Pentium III 700 10.1GB																		
Type - model	8477-42Y	8477-51Y	8477-61Y																		
Disk - capacity	10.1GB																				
Disk - features	EIDE / 7200 rpm / 1" high / 9.0ms / ATA-66 / SMART ⁵																				
Rack support	Not supported																				
Avail / withdrawn date	March 2000 / December 2000	June 2000 / December 2000	June 2000 / December 2000																		
Intel® Processor Implementation	Pentium® III 600/100MHz¹ Processor and L2 cache in Single Edge Contact (SEC) cartridge in protective metal case / SEC plugged into Intel Slot 1	Pentium III 650/100MHz	Pentium III 700/100MHz																		
Processor upgrade	No SMP / no upgrades supported																				
L2 cache (std and max)	512KB / half speed / ECC / integrated in SEC	256KB / full speed /ECC integrated in SEC	256KB / full speed / ECC / integrated in SEC																		
Memory - std / max	64MB std / 768MB max																				
Memory - sockets	3 sockets / 2 available (all have Error Checking and Correcting memory controller)																				
Memory - features	SDRAM / 100MHz / ECC / 168 pin gold-plated DIMM 3.3 volt sockets / PC100-compliant																				
Memory - support	Supports SDRAM ECC DIMMs (32,64,128, 256MB) / only 256MB DIMMs are registered (buffered); can not mix registered with non-registered																				
Disk controller	Enhanced IDE (PIIX4E South Bridge) / Ultra DMA/33 (ATA-33) support / two connectors on riser																				
Disk support	Only the IBM 10.1GB IDE disk supported / no other IDE options supported																				
IDE cables	2-drop IDE cable (one drop each to CD-ROM and disk) / a second 2-drop IDE cable ships standard																				
SCSI support	Only support for internal SCSI tape backup with IBM SCSI adapter (see part numbers below) / installation of other internal SCSI adapters or disks not supported																				
Architecture / chipsets	Intel 440BX AGPset / PIIX4E for EIDE (PIO4 or Ultra DMA/33), ISA Bridge, USB / SMC FDC37C673 Super I/O for diskette, parallel, serial, keyboard, mouse																				
PCI implementation	One primary PCI bus																				
Bus slots	PCI 2.1 (33MHz), Accelerated Graphics Port (66MHz; AGP 2X; 533MB/sec), and ISA slots PCI and ISA slots on riser																				
Bays / available	(See diagram below): 6 bays / two 5.25" HH bays (1 used) / four 3.5" SL bay (2 used) / no hot-swap support																				
Status LEDs	Five status LEDs / includes power, ethernet, CD-ROM, diskette, disk in front; two ethernet LEDs in rear																				
Ethernet controller	Intel EtherExpress PRO/100B / PCI 82558 chip on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake on LAN [®]	All models: Max int disk capacity: 30.3GB with three 10.1GB EIDE disks																			
Audio	Crystal CS4235 chip on planar / stereo / ISA bus / FM Synthesis / int speaker																				
Audio connectors	Stereo line in / mic in / line out (all in back) / software volume control																				
CD-ROM	40X-17X[®] CD-ROM / CAV (ATAPI) / bootable / IDE																				
Diskette drive	3.5" 1.44MB diskette drive																				
Serial / parallel / USB	Serial: Two 9 pin / 115Kbps <i>Parallel:</i> One (EPP, ECP) / IEEE 1284 <i>USB:</i> Two ports / Version 1.1																				
Systems mgmt cntrl	National Semiconductor [®] LM80-compatible / chip to monitor temperature, front fan speed and optional disk fan A, voltage (processor/power supply), cover removal																				
Systems mgmt	Alert on LAN / Vital Product Data support (type, model, serial, id) / RFID disabled																				
Graphics controller	SVGA / S3 [™] Trio3D / 4MB std and max / 100MHz SGRAM / AGP 1X / on planar / 2D/3D accelerator / DPMS, DDC2B compliant / up to 1600x1200 at 64K colors at 84Hz or 1024x768 at 16.7M colors at 85Hz																				
Security	Chassis-intrusion detection / cover key lock / U-Bolt support / power-on password / administrator password / boot sequence control / operation without keyboard and mouse / secure disk drive / serial EEPROM with write protect / keyboard and mouse password / mouse disable / diskette I/O control / disk I/O control / serial and parallel port I/O control / secure access openings (vents and louvers) / Vital Product Data stored in on-board FLASH ROM																				
Software	ServerGuide™ (CD-based automated network operating system installation and configuration tool) / includes Netfinity Manager (system hardware mgmt software) and many utilities in ServerGuide																				
BIOS	256KB EEPROM (IBM BIOS) / Flash over LAN support																				
Keyboard / mouse	IBM 104 key keyboard / IBM Enhanced mouse																				
Cooling fans	Three cooling fans (power supply, processor, disk area)																				
Power supply	330 watts / universal / auto-sensing / Wake on LAN / no auto-restart support																				
Other features	Plug and play BIOS 1.0a / ISO 9241 part 3 enabled																				
Slot 1: fullsize, 32-bit PCI 2.1 (3.3v/5v)																					
Slot 2: fullsize, 32-bit PCI 2.1 (3.3v/5v)																					
Slot 3: fullsize, 32-bit PCI 2.1 (3.3v/5v)																					
Slot 4: fullsize, 16-bit ISA																					
Slot 5: fullsize, 16-bit ISA																					
Slot 6: fullsize, 16-bit ISA																					
Slot: fullsize, 32-bit AGP 2X (3.3v) - on motherboard; not riser																					
CD-ROM	Bay ① 5.25", HH 1.6", access, std CD-ROM																				
5.25" HH	Bay ② 5.25", HH 1.6", access, open																				
3.5" SL diskette	Bay ③ 3.5", SL 1", access, open																				
	Bay ④ 3.5", SL 1", access, std diskette																				
	Bay ⑤ 3.5", SL 1", no access, open (disk only)																				
	Bay ⑥ 3.5", SL 1", no access, std disk (disk only)																				
	Bay ⑤ and ⑥ can be combined for HH 1.6" bay																				
	<ul style="list-style-type: none"> ⊕ Removable left side panel ⊕ Four stabilizing feet ⊕ Top handle ⊕ H 19.37" x W 7.87" x D 17.52" ⊕ 33 to 38 pounds 																				
		<ul style="list-style-type: none"> - Configuration/Setup Utility at startup (press F1) in EEPROM - Adv Config and Power Interface (ACPI) 1.0 - PC 97, DMI 2.0, Wired for Management 1.1a - PC-Doctor Diagnostics on diskette - Several hardcopy publications - Supplier's Declaration available 																			
		<p>OPTIONS</p> <table border="0"> <tr> <td>32MB SDRAM ECC 100MHz DIMM</td> <td>01K1133</td> </tr> <tr> <td>64MB SDRAM ECC 100MHz DIMM</td> <td>01K1130</td> </tr> <tr> <td>128MB SDRAM ECC 100MHz DIMM</td> <td>01K1131</td> </tr> <tr> <td>256MB SDRAM ECC 100MHz DIMM (registered)</td> <td>01K1132</td> </tr> <tr> <td>IBM 10.1GB 7200 rpm EIDE disk</td> <td>33L4958</td> </tr> <tr> <td>IBM 10/20GB NS Internal SCSI Tape Drive</td> <td>01K1319</td> </tr> <tr> <td>IBM Fast/Wide Ultra SCSI Adapter</td> <td>02K3454</td> </tr> <tr> <td>IBM 16/4 Token-Ring PCI Adapter 2</td> <td>34L0601</td> </tr> <tr> <td>IBM 16/4 Token-Ring PCI Adapter 2 Wake on LAN</td> <td>34L0701</td> </tr> </table>		32MB SDRAM ECC 100MHz DIMM	01K1133	64MB SDRAM ECC 100MHz DIMM	01K1130	128MB SDRAM ECC 100MHz DIMM	01K1131	256MB SDRAM ECC 100MHz DIMM (registered)	01K1132	IBM 10.1GB 7200 rpm EIDE disk	33L4958	IBM 10/20GB NS Internal SCSI Tape Drive	01K1319	IBM Fast/Wide Ultra SCSI Adapter	02K3454	IBM 16/4 Token-Ring PCI Adapter 2	34L0601	IBM 16/4 Token-Ring PCI Adapter 2 Wake on LAN	34L0701
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		<p>LIMITED WARRANTY</p> <ul style="list-style-type: none"> ⊕ 1 year parts and labor warranty³ ⊕ International Warranty Service³ ⊕ 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 response⁷ time ⊕ Post warranty: on site options available ⊕ 90-day IBM Start Up Support ⊕ IBM SystemXtra^{®16} ⊕ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet support ⊕ IBM or reseller warranty/service 																			

IBM Netfinity® 3000 (Fall 1998) - withdrawn

IBM® Netfinity®	Mini-tower 400/100MHz Pentium II Open bay	9.1GB ²	Mini-tower 450/100MHz Pentium II Open bay	9.1GB
Type - model	8476-30U	8476-31U	8476-40U	8476-41U
Disk - capacity	None	9.1GB	None	9.1GB
Disk - features	<i>All 9.1GB disks: Wide Ultra SCSI / 7200 rpm / 1" high / 8.5ms or less / SMART⁵</i>			
Rack support	Not supported			
Avail / withdrawn date	September 1998 / October 1999			
Processor	Intel® Pentium® II 400/100MHz¹		Pentium II 450/100MHz	
Implementation	Processor and L2 cache in Single Edge Contact (SEC) cartridge in protective metal case / SEC plugged into Intel Slot 1			
Processor upgrade	No SMP / can upgrade by replacing SEC into motherboard Intel Slot 1 CPU connector / Can upgrade to Pentium II 450/100MHz or Pentium III 500/100MHz, 550/100MHz, 600/100MHz			
L2 cache	512KB std / 512KB max / ECC / half speed of processor / integrated in SEC			
Memory - std / max	64MB std / 768MB max			
Memory - sockets	3 sockets / 2 available (all have Error Checking and Correcting memory controller)			
Memory - features	SDRAM / 100MHz / ECC / 168 pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / hardware scrubbing of ECC errors			
Memory - support	Supports SDRAM ECC DIMMs (32,64,128, 256MB) / only 256MB DIMMs are registered; cannot mix reg/non-reg			
SCSI disk controller	Adaptec® AHA-2940uWB / Wide Ultra SCSI (40MB/sec) controller / single channel / 15 devices / PCI adapter			
SCSI connectors	Internal 68 pin (attaches 4 drop cable to SCSI disk) (50 pin conn not supported); <i>External:</i> 68 pin SCSI port on back of adapter			
RAID support	No hardware RAID standard / supports optional Adaptec AAA™-131 UltraSCSI Array PCI Adapter (internal or ext RAID)			
IDE disk controller	Enhanced IDE busmaster (PIIX4E) / Ultra DMA/33 (ATA-33) support / two connectors on riser			
Cables	4 drop 16-bit SCSI cable on internal 68 pin port / one 1 drop IDE cable (one drop to CD-ROM)			
Architecture / chipsets	Intel 440BX AGPset / PIIX4E for EIDE (Ultra DMA/33), ISA Bridge, USB / one primary PCI bus SMC FDC37C673 Super I/O for diskette, parallel, serial, keyboard, mouse / I/O ready			
Bus slots	PCI 2.1 (33MHz), Accelerated Graphics Port (66MHz; AGP-2x; 533MB/sec), and ISA slots PCI and ISA slots on riser (See diagram below): 6 bays / two 5.25" HH bays (1 used) / four 3.5" SL bay (1 or 2 used) / no hot-swap support			
Bays / available	Five status LEDs / includes power, ethernet, CD-ROM, diskette, disk in front; two ethernet LEDs in rear			
Status LEDs				
Ethernet controller	Intel EtherExpress PRO/100B / PCI 82558 chip on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake on LAN® / Alert on LAN™		All models: Max int disk capacity: 72.8GB with four 18.2GB SL SCSI disks; 10K rpm disks not supported; EIDE disks not supported	
Audio	Crystal CS4235 chip on planar / stereo / ISA bus / FM Synthesis / int speaker			
Audio connectors	Stereo line in / mic in / line out (all in back) / software volume control			
CD-ROM	32X-14X⁶ CD-ROM / CAV (ATAPI) / bootable / IDE			
Diskette drive	3.5" 1.44MB diskette drive			
Serial / parallel / USB	<i>Serial:</i> Two 9 pin / 115Kbps <i>Parallel:</i> One (EPP, ECP) / IEEE 1284 <i>USB:</i> Two ports			
Systems mgmt cntrl	National Semiconductor® LM80 compatible / chip to monitor temperature, front fan speed and optional disk fan A, voltage (processor/power supply), cover removal			
Systems mgmt	Alert on LAN / Vital Product Data support (type, model, serial, id) / RFID disabled			
Systems mgmt option	Optional Adv Sys Mgmt Adapter and Power Unit / no SMART card connector on motherboard for this adapter			
Graphics controller	SVGA / S3™ Trio3D / 4MB std / 4MB max / 100MHz SGRAM / AGP on planar / no sideband or split transactions / 2D/3D accelerator / DPMS, DDC2B compliant / up to 1600x1200 at 64K colors at 84Hz or 1024x768 at 16.7M colors at 85Hz			
Security	Chassis-intrusion detection / cover key lock / U-Bolt support / power-on password / administrator password / boot sequence control / operation without keyboard and mouse / secure disk drive / serial EEPROM with write protect / keyboard and mouse password / mouse disable / external SCSI port disable / diskette I/O control / disk I/O control / serial and parallel port I/O control / secure access openings (vents and louvers) / Vital Product Data stored in on-board FLASH ROM			
Software	ServerGuide™ (CD-based automated network operating system installation and configuration tool), Lotus® Domino® Mail Server Release 5 (Windows NT version) plus five client licenses ¹⁸ , Norton AntiVirus, and APC PowerChute Plus / includes Netfinity® Manager 5.1 (system hardware mgmt software) and many utilities in ServerGuide			
BIOS	256KB EEPROM (IBM BIOS) / Flash over LAN support		Pentium II 450MHz/512KB Proc Upg 10L5900	
Keyboard / mouse	IBM 104 key keyboard / IBM Enhanced mouse		Pentium III 500MHz/512KB Proc Upg 36L9673	
Cooling fans	Two or three cooling fans (power supply, processor; a third fan may be installed in disk area A by AAP partner)		Pentium III 550/MHz/512KB Proc Upg 33L5112	
Power supply	330 watts / universal / auto-sensing / Wake on LAN / auto-restart support		Pentium III 600/MHz/512KB Proc Upg 33L5106	
Other features	Plug and play BIOS 1.0a / ISO 9241 part 3 enabled PC Doctor Diagnostics on diskette		32MB SDRAM ECC 100MHz DIMM 01K1133	
			64MB SDRAM ECC 100MHz DIMM 01K1130	
			128MB SDRAM ECC 100MHz DIMM 01K1131	
			256MB SDRAM ECC 100MHz DIMM (registered) 01K1132	
			IBM ServeRAID II Ultra SCSI Adapter not supported	
			Advanced Systems Management Adapter (ISA) 94G7578	
			Advanced Systems Management Power Unit 94G5571	
			IBM Ultrastar 2XP 9.1GB SL Wide Ultra SCSI Disk 01K1328	
Slot 1: fullsize, 32-bit PCI 2.1 (3.3v/5v) - Adaptec PCI Ultra SCSI adapter installed				
Slot 2: fullsize, 32-bit PCI 2.1 (3.3v/5v)				
Slot 3: fullsize, 32-bit PCI 2.1 (3.3v/5v)				
Slot 4: fullsize, 16-bit ISA				
Slot 5: fullsize, 16-bit ISA				
Slot 6: fullsize, 16-bit ISA				
Slot: fullsize, 32-bit AGP-2x (3.3v) - on motherboard; not riser				
CD-ROM	Bay ① 5.25", HH 1.6", access, open or std CD-ROM			
5.25" HH	Bay ② 5.25", HH 1.6", access, open			
3.5" SL diskette	Bay ③ 3.5", SL 1", access, open			
	Bay ④ 3.5", SL 1", access, std diskette			
	Bay ⑤ 3.5", SL 1", no access, open (disk only)			
	Bay ⑥ 3.5", SL 1", no access, std disk in some models (disk only)			
	Bay ⑤ and ⑥ can be combined for HH 1.6" bay			
	<ul style="list-style-type: none"> ▷ Removable left side panel ▷ Four stabilizing feet ▷ Top handle ▷ H 19.37" x W 7.87" x D 17.52" ▷ 33 to 38 pounds 			
Mini-tower Stealth gray	<ul style="list-style-type: none"> - Configuration/Setup Utility at startup (press F1) - SCSISelect near startup by pressing CTRL+A - Adv Config and Power Interface (ACPI) 1.0 - DMI 2.0 - PC 97 - Wired for Management 1.1a - Several hardcopy publications - Supplier's Declaration available 			
	WARRANTY SERVICE SUPPORT			
	<ul style="list-style-type: none"> ▷ 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 			

IBM Netfinity® 3000 (1999) - withdrawn

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	<= 8476-50U	<= 8476-51U	<= 8476-60U	<= 8476-61U	8476-70U	8476-71U
Disk - capacity	None	9.1GB	None	9.1GB	None	9.1GB
Disk - features	Wide Ultra SCSI / 7200 rpm / 1" high / 8.5ms or less / SMART ⁵			Wide Ultra2 SCSI / 7200 rpm / 1" / 7.5ms		
Rack support	Not supported			Not supported		
Avail / withdrawn date	March 1999 / April 2000			June 1999 / April 2000		
Processor	Intel® Pentium® III 500/100MHz ¹		Intel Pentium III 550/100MHz		Intel Pentium III 600/100MHz	
Implementation	Processor and L2 cache in Single Edge Contact (SEC) cartridge in protective metal case / SEC plugged into Intel Slot 1					
Processor upgrade	No SMP / can upgrade by replacing SEC into motherboard Intel Slot 1 CPU connector to supported processor upgrades					
L2 cache	512KB std / 512KB max / ECC / half speed of processor / integrated in SEC					
Memory - std / max	64MB std / 768MB max					
Memory - sockets	3 sockets / 2 available (all have Error Checking and Correcting memory controller)					
Memory - features	SDRAM / 100MHz / ECC / 168 pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / hardware scrubbing of ECC errors					
Memory - support	Supports SDRAM ECC DIMMs (32,64,128, 256MB) / only 256MB DIMMs are registered (buffered); can not mix registered with non-registered					
SCSI disk controller	Adaptec® AHA-2940UW / Wide Ultra SCSI (40MB/sec) / single channel / 15 devices / PCI adapter					
SCSI connectors	Internal 68 pin (attaches 4 drop cable to SCSI disk) (50 pin conn not supported); <i>External</i> : 68 pin SCSI port on back of adptr					
RAID support	No hardware RAID standard / supports optional Adaptec AAA™-131 UltraSCSI Array PCI Adapter (internal or ext RAID)					
IDE disk controller	Enhanced IDE busmaster (PIIX4E) / Ultra DMA/33 (ATA-33) support / two connectors on riser					
Cables	4 drop 16-bit SCSI cable on internal 68 pin port / one 1 drop IDE cable (one drop to CD-ROM)					
Architecture / chipsets	Intel 440BX AGPset / PIIX4E for EIDE (Ultra DMA/33), ISA Bridge, USB / SMC FDC37C673 Super I/O for diskette, parallel, serial, keyboard, mouse / I ₂ O ready					
PCI implementation	One primary PCI bus					
Bus slots	PCI 2.1 (33MHz), Accelerated Graphics Port (66MHz; AGP-2x; 533MB/sec), and ISA slots PCI and ISA slots on riser					
Bays / available	(See diagram below): 6 bays / two 5.25" HH bays (1 used) / four 3.5" SL bay (1 or 2 used) / no hot-swap support					
Status LEDs	Five status LEDs / includes power, ethernet, CD-ROM, diskette, disk in front; two ethernet LEDs in rear					
Ethernet controller	Intel EtherExpress PRO/100B / PCI 82558 chip on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake on LAN® / Alert on LAN™				All models: Max int disk capacity: 72.8GB with four 18.2GB SL SCSI disks; 10K rpm disks not supported; EIDE disks not supported	
Audio	Crystal CS4235 chip on planar / stereo / ISA bus / FM Synthesis / int speaker					
Audio connectors	Stereo line in / mic in / line out (all in back) / software volume control					
CD-ROM	32X-14X⁶ CD-ROM / CAV (ATAPI) / bootable / IDE (models 70U and 71U have 40X-17X ⁶ CD-ROM)					
Diskette drive	3.5" 1.44MB diskette drive					
Serial / parallel / USB	Serial: Two 9 pin / 115Kbps Parallel: One (EPP, ECP) / IEEE 1284 USB: Two ports					
Systems mgmt cntrl	National Semiconductor® LM80-compatible / chip to monitor temperature, front fan speed and optional disk fan A, voltage (processor/power supply), cover removal					
Systems mgmt	Alert on LAN / Vital Product Data support (type, model, serial, id) / RFID disabled					
Systems mgmt option	Optional Adv Sys Mgmt Adapter and Power Unit / no SMART card connector on motherboard for this adapter					
Graphics controller	SVGA / S3™ Trio3D / 4MB std / 4MB max / 100MHz SGRAM / AGP on planar / no sideband or split transactions / 2D/3D accelerator / DPMS, DDC2B compliant / up to 1600x1200 at 64K colors at 84Hz or 1024x768 at 16.7M colors at 85Hz					
Security	Chassis-intrusion detection / cover key lock / U-Bolt support / power-on password / administrator password / boot sequence control / operation without keyboard and mouse / secure disk drive / serial EEPROM with write protect / keyboard and mouse password / mouse disable / external SCSI port disable / diskette I/O control / disk I/O control / serial and parallel port I/O control / secure access openings (vents and louvers) / Vital Product Data stored in on-board FLASH ROM					
Software	ServerGuide™ (CD-based automated network operating system installation and configuration tool), Lotus® Domino® Mail Server Release 5 (Windows NT version) plus five client licenses ¹⁰ , Norton AntiVirus, and APC PowerChute Plus / includes Netfinity® Manager (system hardware mgmt software) and many utilities in ServerGuide					
BIOS	256KB EEPROM (IBM BIOS) / Flash over LAN support			Pentium III 550MHz/512KB Proc Upg		33L5112
Keyboard / mouse	IBM 104 key keyboard / IBM Enhanced mouse			Pentium III 600MHz/512KB Proc Upg		33L5106
Cooling fans	Two or three cooling fans (power supply, processor; a third fan may be installed in disk area A by AAP partner)			32MB SDRAM ECC 100MHz DIMM		01K1133
Power supply	330 watts / universal / auto-sensing / Wake on LAN / auto-restart support			64MB SDRAM ECC 100MHz DIMM		01K1130
Other features	Plug and play BIOS 1.0a / ISO 9241 part 3 enabled			128MB SDRAM ECC 100MHz DIMM		01K1131
				256MB SDRAM ECC 100MHz DIMM (registered)		01K1132
				IBM ServeRAID-3HB Ultra2 SCSI Adapter		37L6086
				Advanced Systems Management Adapter (ISA)		94G7578
				Advanced Systems Management Power Unit		94G5571
				IBM Ultrastar 2XP 4.51GB SL Wide Ultra SCSI Disk		01K1327
				IBM Ultrastar 2XP 9.1GB SL Wide Ultra SCSI Disk		01K1328
				IBM 18.2GB Wide Ultra2 SCSI Disk		20L0554
Slot 1: fullsize, 32-bit PCI 2.1 (3.3v/5v) - Adaptec PCI Ultra SCSI adapter installed						
Slot 2: fullsize, 32-bit PCI 2.1 (3.3v/5v)						
Slot 3: fullsize, 32-bit PCI 2.1 (3.3v/5v)						
Slot 4: fullsize, 16-bit ISA						
Slot 5: fullsize, 16-bit ISA						
Slot 6: fullsize, 16-bit ISA						
Slot: fullsize, 32-bit AGP-2x (3.3v) - on motherboard; not riser						
	 <p>Bay ① 5.25", HH 1.6", access, open or std CD-ROM Bay ② 5.25", HH 1.6", access, open Bay ③ 3.5", SL 1", access, open Bay ④ 3.5", SL 1", access, std diskette Bay ⑤ 3.5", SL 1", no access, open (disk only) Bay ⑥ 3.5", SL 1", no access, std disk in some models (disk only)</p> <p>Bay ⑤ and ⑥ can be combined for HH 1.6" bay</p> <ul style="list-style-type: none"> ⊜ Removable left side panel ⊜ Four stabilizing feet ⊜ Top handle ⊜ H 19.37" x W 7.87" x D 17.52" ⊜ 33 to 38 pounds 			<ul style="list-style-type: none"> - Configuration/Setup Utility at startup (press F1) in EEPROM - SCSISelect near startup by pressing CTRL+A - Adv Config and Power Interface (ACPI) 1.0 - PC 97, DMI 2.0, Wired for Management 1.1a - PC-Doctor Diagnostics on diskette - Several hardcopy publications - Supplier's Declaration available 		
	<p>Mini-tower Stealth gray</p>					
						<p>LIMITED WARRANTY</p> <ul style="list-style-type: none"> ⊜ 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 average response time ⊜ On site warranty upgrade option: 24 hr / 7 day coverage, 4 hr average response⁷ time ⊜ 90-day IBM Start Up Support ⊜ IBM SystemXtra^{®16} ⊜ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet support (www.pc.ibm.com) ⊜ IBM or reseller warranty/service

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IBM Netfinity® 3000 (Spring 2000) - withdrawn

IBM® Netfinity®	Mini-tower Pentium III 650MHz Open bay	Mini-tower Pentium III 650MHz 9.1GB²	Mini-tower Pentium III 700MHz Open bay	Mini-tower Pentium III 700MHz 9.1GB
Type - model	8476-80U	8476-81U	8476-90U	8476-91U
Disk - capacity	None	9.1GB	None	9.1GB
Disk - features	Wide Ultra2 SCSI / 7200 rpm / 1" high / 7.5ms / SMART ⁵			
Rack support	Not supported			
Avail / withdrawn date	March 2000 / December 2000			
Processor	Intel® Pentium® III 650/100MHz¹		Intel Pentium III 700/100MHz	
Implementation	Processor and L2 cache in Single Edge Contact (SEC) cartridge in protective metal case / SEC plugged into Intel Slot 1			
Processor upgrade	No SMP / can upgrade by replacing SEC into motherboard Intel Slot 1 CPU connector to supported processor upgrades			
L2 cache	256KB std and max / ECC / full speed of processor / integrated in SEC			
Memory - std / max	64MB std / 768MB max	128MB std / 768MB max	64MB std / 768MB max	128MB std / 768MB max
Memory - sockets	3 sockets / 2 available (all have Error Checking and Correcting memory controller)			
Memory - features	SDRAM / 100MHz / ECC / 168 pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / hardware scrubbing of ECC errors			
Memory - support	Supports SDRAM ECC DIMMs (32,64,128, 256MB) / only 256MB DIMMs are registered (buffered); can not mix registered with non-registered			
SCSI disk controller	Adaptec® AHA-2940U2B / Wide Ultra2 SCSI (80MB/sec) / single channel / 15 devices / PCI adapter			
SCSI connectors	Internal 68-pin (attaches 4-drop cable to SCSI disk); <i>External</i> : 68-pin SCSI port on back of adapter			
RAID support	No hardware RAID standard			
IDE disk controller	Enhanced IDE busmaster (PIIX4E) / Ultra DMA/33 (ATA-33) support / two connectors on riser			
Cables	4-drop 16-bit LVD SCSI cable on internal 68 pin port / one 2-drop IDE cable (one drop to CD-ROM)			
Architecture / chipsets	Intel 440BX AGPset / PIIX4E for EIDE (Ultra DMA/33), ISA Bridge, USB / SMC FDC37C673 Super I/O for diskette, parallel, serial, keyboard, mouse / I ₂ O ready			
PCI implementation	One primary PCI bus			
Bus slots	PCI 2.1 (33MHz), Accelerated Graphics Port (66MHz; AGP-2x; 533MB/sec), and ISA slots PCI and ISA slots on riser			
Bays / available	(See diagram below): 6 bays / two 5.25" HH bays (1 used) / four 3.5" SL bay (1 or 2 used) / no hot-swap support			
Status LEDs	Five status LEDs / includes power, ethernet, CD-ROM, diskette, disk in front; two ethernet LEDs in rear			
Ethernet controller	Intel EtherExpress PRO/100B / PCI 82558 chip on planar / 10BaseT, 100BaseTX / full duplex / PCI bus		All models: Max int disk capacity: 72.8GB with four 18.2GB SL SCSI disks	
Audio	Crystal CS4235 chip on planar / stereo / ISA bus / FM Synthesis / int speaker			
Audio connectors	Stereo line in / mic in / line out (all in back) / software volume control			
CD-ROM	40X-17X⁶ CD-ROM / CAV (ATAPI) / bootable / IDE			
Diskette drive	3.5" 1.44MB diskette drive			
Serial / parallel / USB	<i>Serial</i> : Two 9 pin / 115Kbps <i>Parallel</i> : One (EPP, ECP) / IEEE 1284 <i>USB</i> : Two ports (Version 1.1)			
Systems mgmt cntrl	National Semiconductor® LM80-compatible / chip to monitor temperature, front fan speed and disk fan, voltage (processor/power supply), cover removal			
Systems mgmt	Alert on LAN / Vital Product Data support (type, model, serial, id) / RFID disabled			
Systems mgmt option	Optional Adv Sys Mgmt Adapter and Power Unit / no SMART card connector on motherboard for this adapter			
Graphics controller	SVGA / S3™ Trio3D / 4MB std and max / 100MHz SGRAM / AGP 1X / on planar / no sideband or split transactions / 2D/3D accelerator / DPMS, DDC2B compliant / up to 1600x1200 at 64K colors at 84Hz or 1024x768 at 16.7M colors at 85Hz			
Security	Chassis-intrusion detection / cover key lock / U-Bolt support / power-on password / administrator password / boot sequence control / operation without keyboard and mouse / secure disk drive / serial EEPROM with write protect / keyboard and mouse password / mouse disable / external SCSI port disable / diskette I/O control / disk I/O control / serial and parallel port I/O control / secure access openings (vents and louvers) / Vital Product Data stored in on-board FLASH ROM			
Software	ServerGuide™ (CD-based automated network operating system installation and configuration tool), Lotus® Domino® Application Server R5 (Windows NT or Linux version) plus five client licenses ¹⁹ , Norton AntiVirus, and APC PowerChute Plus / includes Netfinity Manager (system hardware mgmt software) and many utilities in ServerGuide			
BIOS	256KB EEPROM (IBM BIOS) / Flash over LAN support		Pentium III 700MHz/256KB Proc Upg 10K2165	
Keyboard / mouse	IBM 104 key keyboard / IBM Enhanced mouse		32MB SDRAM ECC 100MHz DIMM 01K1133	
Cooling fans	Three cooling fans (drive bays, processor, power supply)		64MB SDRAM ECC 100MHz DIMM 01K1130	
Power supply	330 watts / universal / auto-sensing / Wake on LAN / auto-restart support		128MB SDRAM ECC 100MHz DIMM 01K1131	
Other features	Plug and play BIOS 1.0a / ISO 9241 part 3 enabled		256MB SDRAM ECC 100MHz DIMM (registered) 01K1132	
Slot 1: fullsize, 32-bit PCI 2.1 (3.3v/5v) - Used by SCSI adapter	Bay ① 5.25", HH 1.6", access, open or std CD-ROM		IBM ServeRAID-3HB Ultra2 SCSI Adapter 37L6086	
Slot 2: fullsize, 32-bit PCI 2.1 (3.3v/5v)	Bay ② 5.25", HH 1.6", access, open		Advanced Systems Management Adapter (ISA) 94G5758	
Slot 3: fullsize, 32-bit PCI 2.1 (3.3v/5v)	Bay ③ 3.5", SL 1", access, open		Advanced Systems Management Power Unit 94G5571	
Slot 4: fullsize, 16-bit ISA	Bay ④ 3.5", SL 1", access, std diskette		IBM Ultrastar 2XP 4.51GB SL Wide Ultra SCSI Disk 01K1327	
Slot 5: fullsize, 16-bit ISA	Bay ⑤ 3.5", SL 1", no access, open (disk only)		IBM Ultrastar 2XP 9.1GB SL Wide Ultra SCSI Disk 01K1328	
Slot 6: fullsize, 16-bit ISA	Bay ⑥ 3.5", SL 1", no access, std disk in some models (disk only)		IBM 9.1GB SL Wide Ultra2 SCSI Disk 20L0553	
Slot: fullsize, 32-bit AGP-2x (3.3v) - on motherboard; not riser	Bay ⑤ and ⑥ can be combined for HH 1.6" bay		IBM 18.2GB Wide Ultra2 SCSI Disk 20L0554	
	<ul style="list-style-type: none"> ⊖ Removable left side panel ⊖ Four stabilizing feet ⊖ Top handle ⊖ H 19.37" x W 7.87" x D 17.52" ⊖ 33 to 38 pounds 		<ul style="list-style-type: none"> - Configuration/Setup Utility at startup (press F1) in EEPROM - SCSISelect near startup by pressing CTRL+A - Adv Config and Power Interface (ACPI) 1.0 - PC 97, DMI 2.0, Wired for Management 1.1a - PC-Doctor Diagnostics on diskette - Several hardcopy publications - Supplier's Declaration available 	

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IBM 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	>= 8644-10U	>= 8644--20U	>= 8644--21U	>= 8644--30U
Disk - capacity	None	None	1 x 4.33GB ² / 1" high / 8.5ms	None
Disk - features	N/A	N/A	Wide Ultra SCSI / 5400 rpm	N/A
Rack support	Supported in NetBAY22			
Avail / withdrawn date	February 1998 / withdrawn effective October 1998			2nd quarter 1998 / Feb 1999
Processor(s)	1 x Pentium® II 233/66MHz ¹	1 x Pentium II 266/66MHz		1 x Pentium II 333/66MHz
Implementation	Processor and L2 cache in Single Edge Contact (SEC) cartridge in protective metal case / SEC plugged into Intel Slot 1			
Processor upgrade	SMP via second identical processor / upgrade via SEC into second motherboard Intel® Slot 1 CPU connector / MPS 1.4			
L2 cache	512KB std / 512KB max / ECC / 1/2 speed of processor / integrated in SEC			
Memory - std / max	32MB std / 512MB max	64MB std / 512MB max		
Memory - sockets	4 sockets / 3 available (all have Error Checking and Correcting memory controller)			All models: Max int disk capacity: 22.7G with two 9.1 GBHH + one 4.51GB SL
Memory - features	SDRAM / 66MHz / ECC / four 168 pin gold-plated DIMM 3.3 volt sockets			
Memory - support	Supports SDRAM ECC DIMMs (32,64,128MB)			
SCSI disk controller	Adaptec® AHA-7895 / dual channel Wide UltraSCSI controller / on planar / PCI 2.1			
SCSI connectors	<i>Chan A:</i> 68 pin (attaches 4 drop cable to SCSI disk); <i>Chan B:</i> 68 pin cable std to external SCSI port (50 pin conn not supp)			
RAID support	Supports PCI RAID adapters / slot 2 has a RAIDport™ connector for opt Adaptec ARO-11130SA-B (RAID 0,1,5)			
IDE disk controller	Enhanced IDE busmaster (PIIX4) / Ultra DMA/33 (ATA-33) support / two connectors on planar			
Cables	4 drop 16-bit cable on Channel A; 16-bit cable to ext port on Channel B; one 2 drop IDE cable (CD-ROM)			
Bus slots	PCI 2.1 (33MHz), Accelerated Graphics Port (66MHz; AGP-2x; 533MB/sec), and ISA slots (8.33MHz) / see below			
Architecture / chipsets	Intel® 440LX AGPset / PIIX4 for EIDE (Ultra DMA/33), ISA Bridge, USB / National Semiconductor® PC87307 Super I/O for diskette, parallel, serial, keyboard, mouse / I₂O ready			
PCI implementation	One primary PCI bus			
Bays / available	(See diagram below): 6 bays / two 5.25" HH bays (1 used) / four 3.5" SL bay (1 or 2 used) / no hot-swap support			
Status LEDs	Five status LEDs / includes power, ethernet, CD-ROM, diskette, disk			
Ethernet controller	Intel EtherExpress PRO/100B / PCI 82557 chip on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake-on-LAN			
Audio	Crystal CS4236B chip on planar / stereo / ISA bus / FM Synthesis / int speaker			
Audio connectors	Stereo line in / mic in / line out (all in back) / software volume control			
CD-ROM	24X® CD-ROM / CAV (ATAPI) / bootable / IDE			
Diskette drive	3.5" 1.44MB diskette drive			
Serial / parallel / USB	<i>Ser:</i> Two 9 pin / 115Kbps <i>Par:</i> One (EPP, ECP) / IEEE 1284 <i>USB:</i> Two ports			
SMART card connector	None			
Systems management	Optional Adv Sys Mgmt Adp and Power Unit to power on/off system, read VPD, monitor temperature, monitor fan rotation, monitor voltage at ISA slot			
Systems mgmt cntrl	National Semiconductor® LM78 compatible / hardware chip to monitor temperature, front fan speed, voltage (processor/ power supply), system cover removal / I2C			
Graphics controller	SVGA / Number Nine® Reality 334® / S3d Virge™ GX2 / 2D/3D accelerator / AGP adapter / DPMS and DDC2B compliant / 4MB std / 4MB max 100MHz SGRAM / 60Hz to 150Hz vertical refresh; 35.5 to 90KHz horizontal scan rate			
Security	Chassis-intrusion detection / cover key lock / U-Bolt support / power-on password / administrator password / boot sequence control / operation without keyboard and mouse / secure disk drive / serial EEPROM with write protect / keyboard and mouse password / mouse disable / external SCSI port disable / diskette I/O control / disk I/O control / serial and parallel port I/O control / secure access openings (vents and louvers) / vital product data stored in on-board FLASH ROM			
Software	ServerGuide™ - CD-based automated network operating system installation and configuration tool including license for Lotus® Domino® Server Release 4.6 (single processor edition), Lotus Domino Intranet Starter Pack, IBM AntiVirus, and APC PowerChute Plus / includes Netfinity™ Manager (system hardware mgmt software) and many utilities in ServerGuide			
BIOS	256KB in Flash EEPROM / Flash over LAN support IBM 101 key keyboard / IBM Enhanced mouse		Netfinity 233MHz Pentium II/512KB Upgrade	01K6599
Keyboard / mouse	Four cooling fans (power supply, drive bay area, microprocessor, adapters)		Netfinity 266MHz Pentium II/512KB Upgrade	01K6600
Cooling fans	330 watts / universal / manual switch / Wake-on-LAN / auto-restart support		Netfinity 333MHz Pentium II/512KB Upgrade	01K8025
Power supply	Plug and play BIOS 1.0a / ISO 9241 part 3 enabled / DMI support		32MB SDRAM ECC DIMM	04K0073
Other features			64MB SDRAM ECC DIMM	04K0074
			128MB SDRAM ECC DIMM	04K0075
			IBM ServeRAID II Ultra SCSI Adapter	76H3584
			IBM ServeRAID II 8MB/Battery-Backup Cache	76H5401
			Advanced Systems Management Adapter (ISA)	94G7578
			Advanced Systems Management Power Unit	94G5571
			IBM Ultrastar 2ES 4.33GB Wide Ultra SCSI Disk	76H5815
			IBM Ultrastar 2XP 4.51GB Wide Ultra SCSI Disk	76H2687
			IBM Ultrastar 2ES 9.1GB Wide Ultra SCSI Disk	76H2689

Slot 1: fullsize, 32-bit AGP (3.3v) - used by AGP graphics adapter
 Slot 2: halfsize, 32-bit PCI 2.1 (3.3v/5v) - Adaptec RAIDport connector
 Slot 3: fullsize, 32-bit PCI 2.1 (3.3v/5v)
 Slot 4: fullsize, 32-bit PCI 2.1 (3.3v/5v)
 Slot 5: fullsize, 16-bit ISA or 32-bit PCI 2.1 (3.3v/5v)
 Slot 6: fullsize, 16-bit ISA

CD-ROM	Bay ① 5.25", HH 1.6", access, CD-ROM
5.25" HH	Bay ② 5.25", HH 1.6", access, open
3.5" SL diskette	Bay ③ 3.5", SL 1", access, open
	Bay ④ 3.5", SL 1", access, diskette
3.5" SL disk	Bay ⑤ 3.5", SL 1", no access, open
	Bay ⑥ 3.5", SL 1", no access, disk/open

**Mini-tower
Stealth gray**

- Four cooling fans
- Four stabilizing feet
- Handle grips on top and bottom
- H 19.37" x W 7.87" x D 17.52"
- 33 to 38 pounds

Removable left side panel

- Configuration/Setup Utility invoked by pressing F1 at startup
- SCSISelect near startup by pressing CTRL+A
- Vital Product Data support (type, model, serial, id)
- **Adv Config and Power Interface (ACPI) 1.0**
- Several hardcopy publications
- Supplier's Declaration available

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 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

IBM 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	8655-11Y	8655-12Y	8655-21Y	8655-22Y	8655-31Y	8655-32Y
Disk - capacity	None	1 x 9.1GB / 1" high	None	1 x 9.1GB / 1" high	None	1 x 9.1GB / 1" high
Disk - features	N/A	Wide Ultra2 SCSI 7200 rpm / 7.5ms	None	Wide Ultra2 SCSI 7200 rpm / 7.5ms	None	Wide Ultra2 SCSI 7200 rpm / 7.5ms
Rack support	Not supported					
Avail / withdrawn date	August 1999 / July 2000					
Intel® processor(s)	1 x Pentium® III 500/100MHz ¹		1 x Pentium III 550/100MHz		1 x Pentium III 600/100MHz	
Implementation	Processor and L2 cache in Single Edge Contact (SEC) cartridge in protective metal case / SEC plugged into Intel Slot 1					
Processor upgrade	2-way SMP via second identical processor / upgrade via SEC into second motherboard Intel Slot 1 connector / MPS 1.4					
L2 cache	512KB std / 512KB max / ECC / half speed of processor / integrated in SEC					
Memory - std / max	64MB std / 1GB		128MB std / 1GB max			
Memory - sockets	4 sockets / 3 available / ECC (Error Checking and Correcting) DIMMs and ECC memory controller					
Memory - features	SDRAM / 100MHz / four 168 pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / hardware scrubbing of ECC errors					
Memory - support	Supports SDRAM ECC DIMMs (64, 128, 256MB) / only 256MB DIMMs are registered (buffered); can not mix reg/non-reg					
SCSI disk controller	Adaptec® AHA-7895 / dual channel Wide Ultra SCSI controller (40MB/sec) / on planar / PCI 2.1					
SCSI connectors	Channel A: 68-pin (attaches 4-drop cable to disk) and a 50-pin (not used) Channel B: 68-pin cable std to external port					
RAID support	Supports PCI RAID adapters / slot 2 has a RAIDport™ connector for optional Adaptec ARO-1130CA-B (RAID 0,1)					
IDE disk controller	Enhanced IDE busmaster / Ultra DMA/33 (ATA-33) support / two connectors on planar					
Cables	4-drop 16-bit cable on Channel A; 16-bit cable to ext port on Channel B; one 2-drop IDE cable (one drop to CD-ROM)					
Bus slots	PCI 2.1 (33MHz), Accelerated Graphics Port (66MHz; AGP 2X; 533MB/sec), and shared ISA slot / see below					
Architecture / chipsets	Intel® 440BX AGPset / PIIX4E for EIDE (Ultra DMA/33), ISA Bridge, USB / National Semiconductor® PC87307 Super I/O for diskette, parallel, serial, keyboard, mouse / I ₂ O ready					
PCI implementation	One primary PCI bus					
Bays / available	(See diagram below): 6 bays / two 5.25" HH bays (1 used) / four 3.5" SL bay (1 or 2 used) / no hot-swap support					
Status LEDs	Five status LEDs / includes power, ethernet, CD-ROM, diskette, disk					
100/10Mbps ethernet	Intel EtherExpress PRO/100B / PCI 82558 chip on planar / 10BaseT, 100BaseTX / full duplex / PCI bus					
Audio	Not supported because not tested / Crystal CS4235 chip on planar / stereo / ISA bus / FM Synthesis / internal speaker					
Audio connectors	Stereo line in / mic in / line out (all in back) / software volume control					
CD-ROM	40X-17X ⁶ CD-ROM / CAV (ATAPI) / bootable / IDE					
Diskette drive	3.5" 1.44MB diskette drive					
Serial / parallel / USB	Ser: Two 9 pin / 115Kbps Par: One (EPP, ECP) / IEEE 1284 USB: Two ports				Maximum internal SCSI disk capacity: 72.8GB (4 disks x 18.2GB)	
Systems management	Preboot eXecution Environment (PXE) and Wake on LAN® support / no support for ISA-based Adv Systems Mgmt Adapter (94G7578) or Netfinity Adv System Mgmt PCI Adapter (01K7209)					
Systems mgmt cntrl	National Semiconductor® LM81-compatible / hardware chip to monitor temperature, fan speeds, voltage, system cover removal / I2C bus					
Graphics controller	SVGA / Number Nine® SR9 AGP 2X Adapter with S3 Savage4 / 2D/3D accelerator / DPMS and DDC2B compliant / 8MB std / 8MB max / 110MHz SDRAM / 60Hz to 160Hz vertical refresh; 16.7 million colors at 1600x1200					
Security	Chassis-intrusion detection / cover key lock / U-Bolt support / power-on password / administrator password / boot sequence control / operation without keyboard and mouse / secure disk drive / serial EEPROM with write protect / keyboard and mouse password / mouse disable / external SCSI port disable / diskette I/O control / disk I/O control / serial and parallel port I/O control / secure access openings (vents and louvers) / vital product data stored in onboard FLASH ROM					
Software	ServerGuide™ (CD-based automated network operating system installation and configuration tool), Lotus® Domino® Mail Server Release 5 (Windows NT version) plus five client licenses ¹⁸ , Norton AntiVirus™, and APC PowerChute Plus / includes Netfinity Manager (system hardware mgmt software) and many utilities in ServerGuide					
BIOS	512KB in Flash EEPROM / Flash over LAN support			Pentium III 500MHz/512KB Proc Upg		36L9673
Keyboard / mouse	IBM 101 key keyboard / IBM Enhanced mouse			Pentium III 550MHz/512KB Proc Upg		33L5112
Cooling fans	Four cooling fans (power supply, drive bay area, microprocessor, adapters)			Pentium III 600MHz/512KB Proc Upg		33L5106
Power supply	330 watts / universal / manual switch / auto-restart support			64MB SDRAM ECC DIMM 100MHz		01K1130
	Plug and play BIOS 1.0a / ISO 9241 part 3 enabled / DMI support			128MB SDRAM ECC DIMM 100MHz		01K1131
Other features				256MB SDRAM ECC DIMM Registered		01K1132
				Netfinity ServerRAID-3HB Ultra2 SCSI Adapter		37L6086
				IBM 9.1GB Wide Ultra2 SCSI Hard HDD		20L0553
				IBM 18.2GB Wide Ultra2 SCSI Hard HDD		20L0554
			IBM 9.1GB 10K Wide Ultra2 SCSI Hard HDD		20L0539	
			IBM 18.2GB 10K Wide Ultra2 SCSI Hard HDD		20L0540	

- Slot 1: fullsize, 32-bit AGP (3.3v) - used by AGP graphics adapter
- Slot 2: fullsize, 32-bit PCI 2.1 (5v) - supports optional Adaptec RAIDport
- Slot 3: fullsize, 32-bit PCI 2.1 (5v)
- Slot 4: fullsize, 32-bit PCI 2.1 (5v)
- Slot 5: fullsize, 32-bit PCI 2.1 (5v)
- Slot 6: fullsize, 16-bit ISA or 32-bit PCI 2.1 (5v)

CD-ROM	Bay ① 5.25", HH 1.6", access, CD-ROM
5.25" HH	Bay ② 5.25", HH 1.6", access, open
3.5" SL	Bay ③ 3.5", SL 1", access, open
diskette	Bay ④ 3.5", SL 1", access, diskette
disk	Bay ⑤ 3.5", HH 1.6", no access, disk/open
3.5" SL	Bay ⑥ 3.5", SL 1", no access, open
Mini-tower	Bay ⑤ and ⑥ can be combined for HH 1.6" bay
Stealth black	<ul style="list-style-type: none"> Four stabilizing feet Handle grips on top and bottom H 19.37" x W 7.87" x D 17.52" 33 to 38 pounds (17.3kg) H 492mm x W 200mm x D 445mm

- Removable left side panel
- Configuration/Setup Utility (in flash memory) invoked by pressing F1 at startup
- SCSISelect near startup by pressing CTRL+A
- PC-Doctor on Enhanced Diagnostics CD
- Server Design Guide 1.0-compliant
- Wired for Management 1.1a
- Adv Config Power Interface (ACPI) 1.0
- Support for DMI technology (includes MIF browser) with DMI Service Layer 2.0, DMI BIOS 2.1, and DMI software; DMI 2.0-compliant
- Plug-and-Play 1.0a
- ISO 9241-3 capable
- Vital Product Data support (type, model, serial, id)

LIMITED WARRANTY

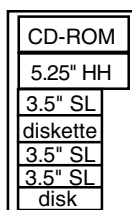
- ↔ 3 year parts and labor warranty³
- ↔ International Warranty Service³
- ↔ On site warranty all 3 years
- ↔ All cities in all states
- ↔ 8 am - 5 pm Mon - Fri coverage
- ↔ Next day average response time
- ↔ On site warranty upgrade option: 24 hr / 7 day coverage, 4 hr average response⁷ time
- ↔ 90-day IBM Start Up Support
- ↔ IBM SystemXtra^{®16}
- ↔ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet support (www.pc.ibm.com)
- ↔ IBM or reseller warranty/service

IBM 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	8657-21Y	8657-22Y	8657-31Y	8657-32Y	8657-41Y	8657-42Y
Disk - capacity	None	1 x 9.1GB / 1" high	None	1 x 9.1GB / 1" high	None	1 x 9.1GB / 1" high
Disk - features	N/A	Wide Ultra2 SCSI 7200 rpm / 7.5ms	None	Wide Ultra2 SCSI 7200 rpm / 7.5ms	None	Wide Ultra2 SCSI 7200 rpm / 7.5ms
Rack support	Not supported					
Avail / withdrawn date	May 2000 / December 2000					
Intel® processor(s)	1 x Pentium III 667/133MHz ¹		1 x Pentium III 733/133MHz		1 x Pentium III 800EB/133MHz	
L2 cache	256KB std and max / ECC / at processor speed / processor and L2 cache in Flip-Chip Pin Grid Array (FC-PGA)					
Implementation	Motherboard contains two Intel PGA370 sockets (one used and one with terminator), one VRM socket (one VRM integrated), four DIMM sockets, 5 PCI slots, and integrated subsystems					
SMP support	2-way SMP via second identical processor / upgrade via FC-PGA into second PGA370 socket (370-pin ZIF sockets)					
Memory - std / max	128MB std / 2GB max					
Memory - sockets	4 sockets / 3 available / ECC (Error Checking and Correcting) DIMMs and ECC memory controller					
Memory - features	SDRAM / 133MHz / four 168-pin gold-plated DIMM 3.3 volt sockets / PC133-compliant					
Memory - support	Supports registered SDRAM ECC DIMMs					
SCSI disk controller	Adaptec® AHA-7892 / single channel Wide Ultra160 SCSI controller (160MB/sec) / on planar / 64-bit 33MHz PCI 2.1					
SCSI connectors	One 68-pin internal connector (attaches 5-drop cable to disk) / no external SCSI connector					
RAID support	Supports optional PCI RAID adapters					
IDE disk controller	Enhanced IDE busmaster / Ultra DMA/33 (ATA-33) support / one connector on planar					
Cables	SCSI: 5-drop 16-bit LVD cable; IDE: one 2-drop IDE cable (one drop to CD-ROM)					
Bus slots (see below)	PCI 2.1 (33MHz) / dual peer PCI / 64-bit PCI (three PCI slots, SCSI controller) / 32-bit PCI (two PCI slots, graphics, ethernet, South Bridge, USB)					
Architecture / chipsets	ServerWorks® ServerSet III LE chip set / NB6635 North Bridge 3.0LE / IB6566 South Bridge for IDE, USB, ISA bus for Super I/O National Semiconductor® PC97317VUL (diskette, parallel, serial, keyboard, mouse)					
Bays / available	(See diagram below): 7 bays / no hot-swap support					
Status LEDs	Five status LEDs / includes power, ethernet, CD-ROM, diskette, disk					
100/10Mbps ethernet	Intel 82559 / on planar / 10BaseT, 100BaseTX / full duplex / 32-bit 33MHz PCI bus / RJ-45 connector					
CD-ROM / diskette	40X-17X ⁶ CD-ROM / CAV (ATAPI) / bootable / IDE Diskette: 3.5" 1.44MB diskette drive					
Serial / parallel / USB	Serial: Two 9 pin Parallel: One (EPP, ECP) / IEEE 1284 USB: Two ports (Version 1.1)					
Systems mgmt cntrl	Two ADM1024 chips / monitors processor temperature, fan speeds, and voltage					
Graphics controller	SVGA / S3 Savage4 / on planar / 8MB SDRAM std and max / 32-bit PCI / DPMS and DDC2B compliant / 60Hz to 160Hz vertical refresh; 16.7 million colors at 1600x1200 / 15-pin D-Sub connector					
Security	Cover key lock / U-Bolt support / power-on password / boot sequence control / operation without keyboard and mouse / secure disk drive / keyboard and mouse password / mouse disable / diskette I/O control / disk I/O control / serial and parallel port I/O control / secure access openings (vents and louvers) / vital product data stored in onboard FLASH ROM					
Software	ServerGuide™ (CD-based automated network operating system installation and configuration tool), Lotus® Domino® Application Server R5 (Windows NT or Linux version) plus five client licenses ¹⁹ , Norton AntiVirus™, and APC PowerChute Plus / includes Netfinity Director (system hardware mgmt software) and many utilities in ServerGuide					
BIOS	2MB in Flash EEPROM		Pentium III 667MHz/256KB Proc Upg		10K3804	
Keyboard / mouse	IBM 101 key keyboard / IBM Enhanced mouse		Pentium III 733MHz/256KB Proc Upg		10K3805	
Cooling fans	Four cooling fans (power supply, drive bay area, microprocessor, adapters) / air baffle		Pentium III 800EBMHz/256KB Proc Upg		10K3817	
Power supply	330 watts / universal / auto switch / auto-restart support		128MB SDRAM ECC DIMM 133MHz RDIMM II		33L3123	
			256MB SDRAM ECC DIMM 133MHz RDIMM II		33L3125	
			512MB SDRAM ECC DIMM 133MHz RDIMM II		33L3127	
			IBM 9.1GB Ultra160 SCSI HDD		00N8204	
			IBM 18.2GB Ultra160 SCSI HDD		00N8205	
			IBM 36.4GB Ultra160 SCSI HDD		00N8206	
			IBM 9.1GB 10K Ultra160 SCSI HDD		00N8207	
			IBM 18.2GB 10K Ultra160 SCSI HDD		00N8208	
			IBM 36.4GB 10K Ultra160 SCSI HDD		00N8209	
			IBM Netfinity ServeRAID-4L Ultra160 SCSI Controller		37L6091	
			IBM Netfinity ServeRAID-4M Ultra160 SCSI Controller		37L6080	

Slot 1: fullsize, 32-bit 33MHz, PCI 2.1 (5v)
 Slot 2: fullsize, 32-bit 33MHz, PCI 2.1 (5v)
 Slot 3: fullsize, 64-bit 33MHz, PCI 2.1 (5v)
 Slot 4: fullsize, 64-bit 33MHz, PCI 2.1 (5v)
 Slot 5: fullsize, 64-bit 33MHz, PCI 2.1 (5v)

Maximum internal SCSI disk capacity:
 145.6GB (4 disks x 36.4GB)



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

Mini-tower
 Stealth
 black

- ↪ Four stabilizing feet
- ↪ Handle grips on top and bottom
- ↪ H 19.37" x W 7.87" x D 18.10"
- ↪ H 492mm x W 200mm x D 460mm
- ↪ 37 to 46 pounds (16.8 to 20.9kg)

- Removable left side panel
- Configuration/Setup Utility (in flash memory) invoked by pressing F1 at startup
- SCSISelect near startup by pressing CTRL+A
- Diagnostics (PC-Doctor) by pressing F2 at startup
- Adv Config Power Interface (ACPI) 1.0
- ISO 9241-3 capable

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 day average response time
- ↪ On site warranty upgrade option: 24 hr / 7 day coverage, 4 hr average response⁷ time
- ↪ IBM Server Start Up Support
- ↪ IBM SystemXtra^{®16}
- ↪ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet support (www.pc.ibm.com)
- ↪ IBM or reseller warranty/service

IBM Netfinity® 4000R - withdrawn

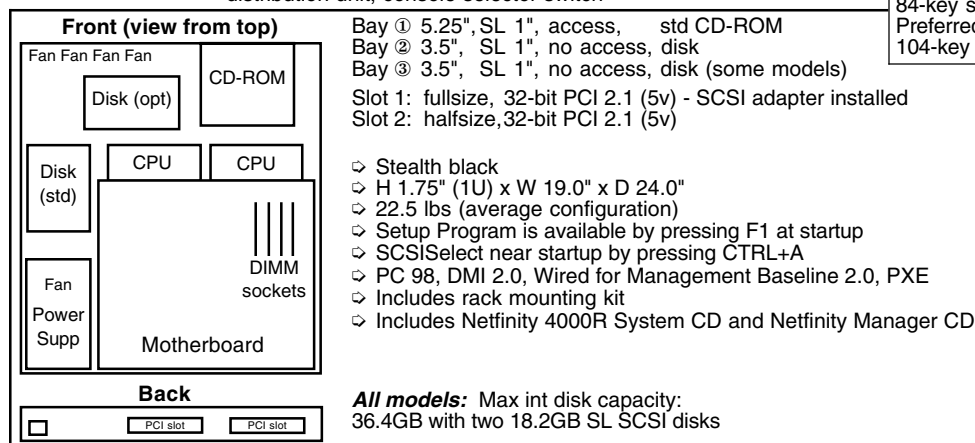
IBM® Netfinity®	1U Rack 1 x Pentium III 500 1 x 9.1GB ²	1U Rack 2 x Pentium III 500 2 x 9.1GB	1U Rack 2 x Pentium III 500 2 x 9.1GB
Type - model	8652-11Y	8652-21Y	8652-22Y
Disk - qty x capacity	1 x 9.1GB	2 x 9.1GB	2 x 9.1GB
Disk - features	Wide Ultra2 SCSI / 7200 rpm / 1" high / 7.5ms or less / SMART ⁵		
Mechanical	EIA 19" Rack (1U⁴)		
Rack support	Rack-mount only / supported in IBM Netfinity Rack products		
Avail / withdrawn date	September 1999 / June 2000		
Intel® processor	1 x Pentium® III 500/100MHz ¹	2 x Pentium III 500/100MHz	2 x Pentium III 500/100MHz
SMP support	2-way SMP standard with some models		
Implementation	Processor and L2 cache in Single Edge Contact Cartridge (SECC2) / two Intel Slot 1 sockets on motherboard		
L2 cache	512KB std / 512KB max / ECC / half speed of processor		
Memory - std / max	256MB std / 2GB max (2 sockets used)	512MB std / 2GB max (4 socket used)	1GB std / 2GB max (4 sockets used)
Memory - sockets	4 sockets / 0 or 2 available (all have Error Checking and Correcting memory controller)		
Memory - features	SDRAM / 100MHz / ECC / 168-pin gold-plated DIMM 3.3 volt sockets / PC100-compliant		
SCSI disk controller	Adaptec® AHA-2940UW/B / Wide Ultra SCSI (40MB/sec) / single channel / 32-bit PCI adapter		
SCSI connectors	Internal 68-pin (attaches 2 drop cable to SCSI disk); <i>External:</i> 68-pin SCSI port on back of adapter (limited to one ext device)		
RAID support	No hardware RAID standard		
IDE controller	Enhanced IDE (PIIX4E) / Ultra DMA/33 (ATA-33) support / two connectors (one ind std / one combined signal/power)		
Cables	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	Intel 440GX AGPset (PCI 2.1 33MHz 32-bit) / PIIX4E for EIDE (Ultra DMA/33), ISA Bridge (BIOS and Super I/O), and USB / Digital [®] 21152 PCI-to-PCI bridge for two PCI slots / ITE [®] IT8671F Super I/O for serial, keyboard, mouse (See diagram below): 3 bays / one 5.25" SL bay / two 3.5" SL bays / no hot-swap support		
Bays / available	Control Panel in front / includes monitoring and reporting the status of cooling systems through a status indicator		
Ethernet controllers	2 x Intel 82559 ethernet controllers / on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / redundant ethernet capability through the connection of both ethernet ports to the same LAN		
Audio	One internal piezo speaker		
CD-ROM	24X-10X ⁶ CD-ROM / CAV (ATAPI) / bootable / IDE		
Diskette drive	None		
Serial / parallel / USB	<i>Serial:</i> Two 9 pin <i>Parallel:</i> None <i>USB:</i> Two ports (not supported)		
CMBus connectors	Two external CMBus connectors for keyboard, mouse, and video / one cable std / one Console Cable Adapter std		
Systems mgmt	System Environmental Monitor / two ST Micro [®] ST72251 monitors board voltages and temperatures / four Maxim [®] MAX161 provide remote and local temperature sensors		
Graphics controller	SVGA / Chips and Technology [®] B69000 HiQVideo accelerator / 2MB SDRAM std and max / AGP 2X / up to 1280x1024x256 colors at 75Hz		
Security	Power-on password / administrator password		
Software	Netfinity 4000R System CD and Netfinity Manager CD		
BIOS	2MB EEPROM (AMI [®] BIOS) / Flash over LAN support		
Keyboard / mouse	None standard		
Cooling fans	Six or seven fans (four in front / one in power supply / one per CPU)		
Power supply	150 watt / universal / auto-sensing / auto-restart support		
Prerequisites	Monitor, keyboard/mouse for setup, rack, operating system		
	<div style="border: 1px solid black; padding: 5px;"> All models: Max int disk capacity: 36.4GB with two 18.2GB SL SCSI disks </div>		

<p>Front (view from top)</p> <p>Back</p>	<p>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)</p> <ul style="list-style-type: none"> ⇨ Stealth black ⇨ H 1.75" (1U) 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) 	<p>LIMITED WARRANTY</p> <ul style="list-style-type: none"> ⇨ 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^{®16} ⇨ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet support (www.pc.ibm.com)
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IBM Netfinity® 4000R (Spring 2000) - withdrawn

IBM® Netfinity® Type-model	Qty x disk / rpm / ms interface	Processor MHz ¹	Qnty x Intel® Processor MHz ¹	L2 cache standard	Memory std / max type	Bus slots	Bays	Mechanical	ethernet	Available date
8652-51Y	1 x 9.1GB ² 7200 7.5ms Wide Ultra2 SCSI	1 x Pentium® III 650/100	256KB full spd	256MB / 2GB SDRAM ECC	PCI=2 1 used by SCSI	2 used 1 empty	1U rack	ethernet	Mar 2000	
8652-61Y	2 x 9.1GB 7200 7.5ms Wide Ultra2 SCSI	2 x Pentium III 650/100	256KB full spd	512MB / 2GB SDRAM ECC	PCI=2 1 used by SCSI	3 used 0 empty	1U rack	ethernet	Mar 2000	
8652-62Y	2 x 9.1GB 7200 7.5ms Wide Ultra2 SCSI	2 x Pentium III 650/100	256KB full spd	1GB / 2GB SDRAM ECC	PCI=2 1 used by SCSI	3 used 0 empty	1U rack	ethernet	Mar 2000	
8652-63Y	2 x 9.1GB 7200 7.5ms Wide Ultra2 SCSI	2 x Pentium III 650/100	256KB full spd	2GB / 2GB SDRAM ECC	PCI=2 1 used by SCSI	3 used 0 empty	1U rack	ethernet	Mar 2000	
8652-64Y	2 x 18.2GB 7200 7.5ms Wide Ultra2 SCSI	2 x Pentium III 650/100	256KB full spd	2GB / 2GB SDRAM ECC	PCI=2 1 used by SCSI	3 used 0 empty	1U rack	ethernet	Mar 2000	
8652-31Y	1 x 9.1GB 7200 7.5ms Wide Ultra2 SCSI	1 x Pentium III 750/100	256KB full spd	256MB / 2GB SDRAM ECC	PCI=2 1 used by SCSI	2 used 0 empty	1U rack	ethernet	Mar 2000	
8652-41Y	2 x 9.1GB 7200 7.5ms Wide Ultra2 SCSI	2 x Pentium III 750/100	256KB full spd	512MB / 2GB SDRAM ECC	PCI=2 1 used by SCSI	3 used 0 empty	1U rack	ethernet	Mar 2000	
8652-42Y	2 x 9.1GB 7200 7.5ms Wide Ultra2 SCSI	2 x Pentium III 750/100	256KB full spd	1GB / 2GB SDRAM ECC	PCI=2 1 used by SCSI	3 used 0 empty	1U rack	ethernet	Mar 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 SCSI	3 used 0 empty	1U rack	ethernet	Mar 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 SCSI	3 used 0 empty	1U rack	ethernet	Mar 2000	

Processor SMP support Implementation L2 cache	One or two Intel® Pentium® III 650 or 750MHz¹ / 100MHz Front Side Bus 2-way SMP via identical processor Processor and L2 cache in Single Edge Contact Cartridge (SECC2) / two Intel Slot 1 sockets on motherboard 256KB std and max / ECC / full speed / integrated in SECC2	
Memory - std / max Memory - sockets Memory - features	256MB, 512MB, 1GB, or 2GB std / 2GB max / Error Checking and Correcting (ECC) memory controller 4 sockets / 0 or 2 available (models with 512MB, 1GB, and 2GB standard have all slots occupied) SDRAM / 100MHz / ECC DIMMs / 168-pin gold-plated DIMM 3.3 volt sockets / PC100-compliant	
SCSI disk controller SCSI connectors RAID support IDE controller Cables	Adaptec® AHA-2940UW / Wide Ultra SCSI (40MB/sec) / single channel / 32-bit PCI adapter Internal 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	Intel 440GX AGPset (PCI 2.1 33MHz 32-bit) / PIIX4E for EIDE (Ultra DMA/33), ISA Bridge (BIOS and Super I/O), and USB / Digital® 21152 PCI-to-PCI bridge for two PCI slots / ITE® IT8671F Super I/O for serial, keyboard, mouse	
Mechanical Bays / available Control Panel	EIA 19" Rack (1U) / rack-mount only / supported in IBM Netfinity Rack products (See diagram below): 3 bays / one 5.25" SL bay / two 3.5" SL bays / no hot-swap support Control Panel in front / includes monitoring and reporting the status of cooling systems through a status indicator	
Ethernet controllers	2 x Intel 82559 ethernet controllers / on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / redundant ethernet capability through the connection of both ethernet ports to the same LAN	
CD-ROM / diskette Serial / parallel / USB CMBus connectors Systems mgmt	24X-10X⁶ CD-ROM ; CAV (ATAPI); bootable; IDE / no diskette drive <i>Serial</i> : Two 9 pin <i>Parallel</i> : None <i>USB</i> : Two ports (not supported) Two external CMBus connectors for keyboard, mouse, and video / one cable std / one Console Cable Adapter std System Environmental Monitor / two ST Micro® ST72251 monitors board voltages and temperatures / four Maxim® MAX161 provide remote and local temperature sensors	
Graphics controller Security Software	SVGA / Chips and Technology® B69000 HiQVideo accelerator / 2MB SDRAM std and max / AGP 2X Power-on password Netfinity 4000R System CD, Diagnostic CD, and Netfinity Manager CD	System does not support customer installation of adapter, disks, memory, processors, or any other devices that must be installed inside the server.
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 / IEC power card	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) 28L3621 104-key with TrackPoint keyboard 01K1260
Prerequisites	Monitor, keyboard/mouse for setup, rack, operating system, power distribution unit, console selector switch	



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^{®16}
- 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet support (www.pc.ibm.com)

IBM Netfinity® 4500R - withdrawn

IBM® Netfinity®: Type-model	Qty x Processor	Memory	Disk	SCSI controller	Mechanical	Slots x bays	Hot-swap disk bays	Ethernet	Available date
8656-2RY	1 x Pentium® III 667/133	128MB	None	2 x Ultra160	3U rack	5 slots x 7 bays	3 hot-swap	10/100 ethernet	April 2000
8656-1RY	1 x Pentium III 733/133	128MB	None	2 x Ultra160	3U rack	5 slots x 7 bays	3 hot-swap	10/100 ethernet	April 2000
8656-3RY	1 x Pentium III 800/133	128MB	None	2 x Ultra160	3U rack	5 slots x 7 bays	3 hot-swap	10/100 ethernet	May 2000
8656-4RY	1 x Pentium III 866/133	128MB	None	2 x Ultra160	3U rack	5 slots x 7 bays	3 hot-swap	10/100 ethernet	May 2000
8656-5RY	1 x Pentium III 933/133	128MB	None	2 x Ultra160	3U rack	5 slots x 7 bays	3 hot-swap	10/100 ethernet	June 2000
Intel® processor(s) L2 cache Implementation	1 x Pentium® III 667, 733, 800EB, 866, or 933MHz¹ with 133MHz Front Side Bus 256KB std and max / ECC / at processor speed / processor and L2 cache in Single Edge Cartridge (SECC2) Motherboard contains two Intel Slot 1 connectors for SECC2 cartridges (open Slot 1 used by terminator), one VRM socket (one VRM integrated), four DIMM sockets, PCI slots, and integrated subsystems								
SMP support	2-way SMP via second identical processor / upgrade via SECC2 into second Slot 1 CPU connector								
Memory - std / max Memory - sockets Memory - features Memory - support	128MB std / 4GB max 4 sockets / 3 available / ECC / (all have Error Checking and Correcting (ECC) memory controller) / non-interleaved SDRAM / 133MHz / four 168-pin gold-plated DIMM 3.3 volt sockets / PC133-compliant Supports registered SDRAM ECC DIMMs only (128, 256, 512MB, and 1GB)								
SCSI disk controller	Adaptec® AHA-7899 / dual channel Wide Ultra160 SCSI controller (LVD 160MB/sec) / Ultra 160/m / on planar / 64-bit PCI / no hardware RAID standard								
SCSI channels	Two internal 16-bit channels / both internal (no external) <i>SCSI Channel A:</i> 16-bit 68-pin LVD cable from controller to backplane <i>Channel B:</i> 16-bit 68-pin interface (not used)								
IDE controller / cable	Single Primary IDE / one connector on planar / one 1 drop IDE cable (CD-ROM)								
Disk - capacity	None standard / supports 7200-10000 rpm disks / 1 backplane / SAF-TE 1.0-compliant								
Disk - bays	Three hot-swap / 80-pin SCA-2 connectors / common tray with EXP200 and later systems like 5600, 8500R								
Mechanical Rack support Bus slots (see below)	EIA 19" Rack (3U*) x 26-inch deep Rack systems supported in IBM Netfinity Racks PCI 2.1 (33MHz) / dual peer PCI / 64-bit PCI (three PCI slots, SCSI controller) / 32-bit PCI (two PCI slots, graphics, ethernet, South Bridge)							<i>All models:</i> Max int disk capacity: 218.4GB² with six 36.4GB SL disks	
Chip set	ServerWorks® ServerSet III LE chip set / NB6635 North Bridge 3.0LE / IB6566 South Bridge for IDE, USB, ISA bus for Service Processor and Super I/O National Semiconductor® PC97317VUL (diskette, parallel, serial, keyboard, mouse)								
Bays / available Status LEDs	(See diagram below): 7 bays / three hot-swap bays Operator Information Panel (in front) / includes power-on, disk, ethernet, information, system error								
10/100 ethernet CD-ROM / diskette Serial / parallel / USB Graphics controller	AMD® Am79C975 / on planar / 10BaseT, 100BaseTX / full duplex / RJ-45 connector / 2 front LEDs 24X-10X ⁹ CD-ROM / multisession / IDE interface / bootable; <i>Diskette:</i> 3.5" 1.44MB diskette drive <i>Serial:</i> Three 9-pin (one for Mgmt Processor) <i>Parallel:</i> One (EPP, ECP) / IEEE 1284 <i>USB:</i> Two ports (Version 1.1) SVGA / PCI 2.1 bus / S3 [®] Savage4 (on planar) / 8MB SDRAM std/max / 1280x1024 at 16M colors at 100Hz / DDC2B								
Security	Power-on password / administrator password / system owner's name / hinged bezel to cover disk bays, power button, and reset button / unattended boot / selectable boot / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode								
Systems management	Netfinity Advanced System Mgmt Processor / on planar / provides remote console and mgmt / allows diagnostic, reset, POST, and auto recovery functions / monitors temperature, fans, and power supplies								
Diagnostics	Diagnostics LED Panel (under cover) / Light Path Diagnostics™ provides an LED map to failing component / system board error LEDs / diagnostics in ROM by pressing F2 at startup for PC-Doctor								
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server R5 (Windows NT or Linux version) plus five client licenses ¹⁹ , AntiVirus software, and APC PowerChute Plus / includes Netfinity Director, others								
Keyboard / mouse Power supply	None standard <i>Std:</i> one 270 watt hot-swap; <i>Max:</i> two 270 watt hot-swap / front access / redundant with two power supplies / worldwide / voltage-sensing / auto-restart / fans in each power supply	Pentium III 667/133MHz/256KB Proc Upg Pentium III 733/133MHz/256KB Proc Upg Pentium III 800EB/133MHz/256KB Proc Upg Pentium III 866/133MHz/256KB Proc Upg Pentium III 933/133MHz/256KB Proc Upg Pentium III 1GHz/133MHz/256KB Proc Upg						00N7949 00N7943 10K2338 19K4630 19K4631 19K4640	
Fans	Three (two in middle, one in rear) / hot-swap / redundant (any single fan can fail while maintaining cooling) / PFA / fan failure signals Diagnostic LED and Mgmt Processor / fan in each power supply	128MB SDRAM ECC DIMM 133MHz (RDIMM II) 256MB SDRAM ECC DIMM 133MHz (RDIMM II) 512MB SDRAM ECC DIMM 133MHz (RDIMM II) 1GB SDRAM ECC DIMM 133MHz (RDIMM II) Netfinity 270W Hot-Swap Redundant Pwr Supply Netfinity 3-Pack Ultra160 Hot-Swap Exp Kit						33L3123 33L3125 33L3127 33L3129 37L6880 33L5050	
Prerequisites	Monitor, disk, network oper system, keyboard, mouse, rack								

Slot 1: fullsize, 32-bit 33MHz PCI 2.1 (5v), Bus A
 Slot 2: fullsize, 32-bit 33MHz PCI 2.1 (5v), Bus A
 Slot 3: fullsize, 64-bit 33MHz PCI 2.1 (5v), Bus B
 Slot 4: fullsize, 64-bit 33MHz PCI 2.1 (5v), Bus B
 Slot 5: fullsize, 64-bit 33MHz PCI 2.1 (5v), Bus B



Bay ① 3.5", US 0.8", access, diskette
 Bay ② 3.5", US 0.8", access, CD-ROM
 Bay ③ 3.5", SL 1", access, hot swap
 Bay ④ 3.5", SL 1", access, hot swap
 Bay ⑤ 3.5", SL 1", access, hot swap
 Bay ⑥ 5.25", HH 1.6", access*
 Bay ⑦ 5.25", HH 1.6", access*

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

- ⇨ Rail system enables devices (CD-ROM, diskette, tape drives) to snap in and out without screws
- ⇨ Configuration/Setup Utility invoked by pressing F1 at startup
- ⇨ SCSISelect near startup by pressing CTRL+A
- ⇨ Several hardcopy publications
- ⇨ Predictive failure analysis on disk options, memory, processors, VRMs, power supplies, and fans in conjunction with Netfinity Director can alert the system administrator of an imminent component failure
- ⇨ Rack: H 5.25" x W 16.3" x D 26.0"
- ⇨ 44 to 62 pounds
- ⇨ Stealth black color
- ⇨ Two 5.25" bays use rails (no screws) for devices

LIMITED WARRANTY

- ⇨ 3 year parts and labor limited 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 x 7 day coverage, 4 hour response⁷ time
 - 24 hr / 7 day coverage, 2 hour response⁷ time (in eligible locations)
- ⇨ IBM Start Up Support
- ⇨ 24 hour x 7 day telephone¹⁴, fax, electronic, and Internet support

• = Hot-swap
 2RY withdrawn effective December 2000; 1RY and 3RY effective March 2001;
 4RY effective June 2001; 5RY effective September 2001

No warranties are expressed or implied in this summary
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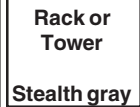
IBM Netfinity® 5000 - withdrawn

IBM® Netfinity®:	Tower	Rack	Tower	Rack	Tower	Rack
	1 x Pentium II 350 Open bay	1 x Pentium II 350 Open bay	1 x Pentium II 400 Open bay	1 x Pentium II 400 Open bay	1 x Pentium II 450 Open bay	1 x Pentium II 450 Open bay
Type - model	8659-12Y	8659-1SY	8659-22Y	8659-2SY	8659-31Y	8659-3RY
Mechanical	Tower	EIA 19" Rack (5U ⁴)	Tower	EIA 19" Rack (5U)	Tower	EIA 19" Rack (5U)
Disk - capacity	None / supports 7200-10000 rpm disks					
Disk - bays	Hot-swap / no trays included (disks ship w/ trays) / 80-pin SCA-2 connectors / 1 backplanes (bank) / SAF-TE 1.0-compliant					
Rack support	Rack systems supported in Netfinity NetBAY22 and Netfinity Rack					
Avail / withdrawn date	October 1998 / April 1999			October 1998 / October 1999		
Intel® processor(s)	1 x Pentium® II 350/100MHz ¹		1 x Pentium II 400/100MHz		1 x Pentium II 450/100MHz	
L2 cache	512KB std / 512KB max / ECC / half speed of processor / processor and L2 cache in Single Edge Contact (SEC) cartridge					
Implementation	Motherboard contains two Intel Slot 1 connectors for SEC cartridge in protective metal case / open slot used by terminator					
Processor upgrade	Can upgrade to Pentium II 400/100, 450/100MHz, or Pentium III 500/100, 550/100MHz (can not upgrade to 600MHz)					
SMP support	SMP via second identical processor / upgrade via SEC into second motherboard Slot 1 CPU connector / MPS 1.4					
Memory - std / max	64MB std / 2GB max / non-interleaved					
Memory - sockets	4 sockets / 3 available (all have Error Checking and Correcting memory controller)					
Memory - features	SDRAM / 100MHz / four 168-pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / hardware scrubbing of ECC errors					
Memory - support	Supports registered SDRAM ECC DIMMs only (64,128, 256, and 512MB)					
SCSI disk controller	Adaptec® AHA-7895 / dual channel Wide UltraSCSI controller / on planar / PCI 2.1 / two channels (one internal/one ext)					
SCSI connectors and cables	SCSI Channel A: 16-bit 68-pin cable from controller to backplane / cable has another drop for device in open 5.25" bay SCSI Channel B: 16-bit 68-pin cable to external SCSI port					
RAID support	Supports PCI ServeRAID adapters					
IDE controller / cable	Single Primary IDE (ROSB3) South Bridge / one connector on planar / one 1 drop IDE cable (CD-ROM)					
Bus slots (see below)	PCI 2.1 (33MHz) / dual peer PCI / ISA slots (8.33MHz) / no hot-swap PCI slots				All models: Max int disk capacity: 45.5GB ² with five 9.1GB SL disks	
Architecture / chipsets	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 / I ₂ O ready					
Bays / available	(See diagram below): 8 bays / two 5.25" HH bays (1 used) / one diskette bay / five hot-swap bays					
Status LEDs	Ten status LEDs / includes power, ethernet, security, disk, processor(s), POST, unattended					
10/100 ethernet	AMD Am79C972 / on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake on LAN / RJ-45 connector / 3 LEDs					
CD-ROM	32X-14X ⁶ CD-ROM / multisession / IDE interface / 1.6" HH / bootable					
Diskette drive	3.5" 1.44MB diskette drive / dust cover / diskette cable has a second drop with card edge connector					
Serial / parallel / USB	Serial: Three 9-pin (one for Mgmt Processor) Parallel: One (EPP, ECP) / IEEE 1284 USB: Two ports					
Graphics controller	SVGA / PCI 2.1 bus / S3® Trio64V2 GX (on planar) / 1MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz					
Security	Power-on password / privileged access password / hinged and lockable front door (tower only) / unattended boot / selectable boot / secure mode (disables power on and reset button, keyboard, mouse) / U-bolt capability / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode					
Systems management	Netfinity Advanced System Mgmt Processor / on planar / provides remote console and mgmt / allows diagnostic, reset, POST, and auto recovery functions / monitors temperature, disks, fans, power supply					
Diagnostics	Light Path diagnostics / operator diagnostic panel / system board error LEDs / diagnostics in ROM					
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Server Mail Server Release 5 (Windows NT version) plus five client licenses ¹⁸ , AntiVirus software, and APC PowerChute Plus / includes Netfinity Manager, others					
Upgradeable EEPROMs	BIOS (remote), diagnostics (remote), and Mgmt Processor on motherboard can be upgraded					
Keyboard / mouse	Tower only: IBM 101-key keyboard / IBM mouse (both black)		Pentium II 350MHz/512KB Proc Upg		10L5883	
Power supply	Std: one 350 watt (consists of two 175-watt modules) / built-in redundancy (dependent upon configuration) / worldwide / voltage-sensing / auto-restart; Max: second 175 watt (second is required for redundancy when 175 watts are exceeded) / fans in each power supply		Pentium II 400MHz/512KB Proc Upg		10L5884	
Fans	Two fans / easy removal / PFA / fan failure signals Diagnostic LED and Mgmt Processor / power supply fans		Pentium II 450MHz/512KB Proc Upg		10L5900	
Other features	Plug and play BIOS / I2C diagnostic bus		Pentium III 500MHz/512KB Proc Upg		36L9673	
			Pentium III 550MHz/512KB Proc Upg		33L5112	
			64MB SDRAM ECC DIMM 100MHz (registered)		01K7241	
			128MB SDRAM ECC DIMM 100MHz (registered)		01K7262	
			256MB SDRAM ECC DIMM 100MHz (registered)		01K8043	
			512MB SDRAM ECC DIMM 100MHz (registered)		01K7263	
			Netfinity 5000 Rack-to-Tower Conversion Kit		10L6972	
			Netfinity 5000 Tower-to-Rack Conversion Kit		10L7006	
			Netfinity 175 watt Redundant Power Supply		10L7007	
			IBM SCA-2 SL 9.1GB 10K Wide Ultra SCSI Disk		01K8010	
			Netfinity Two-Drop Internal SCSI cable		36L9636	

Slot 1: fullsize, 16-bit ISA or 32-bit PCI 2.1 (5v), Bus 1	<ul style="list-style-type: none"> - Removable, easy release left side panel - Removable, easy release front cover - Quick release adapter slots (no screws) - Quick release motherboard removal - 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 	<h3>WARRANTY SERVICE SUPPORT</h3> <ul style="list-style-type: none"> ↔ 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: <ul style="list-style-type: none"> • 24 hr / 7 day coverage, 4 hour response⁷ time • 24 hr / 7 day coverage, 2 hour resp⁷ time (in eligible locations) ↔ 90-day IBM Start Up Support ↔ IBM SystemXtra^{®16} ↔ 24 hour / 7 day telephone¹⁴, bulletin board, fax, electronic, and Internet (www.pc.ibm.com) support ↔ IBM or reseller warranty/service
Slot 2: fullsize, 16-bit ISA or 32-bit PCI 2.1 (5v), Bus 1		
Slot 3: fullsize, 32-bit PCI 2.1 (5v), Bus 1		
Slot 4: fullsize, 32-bit PCI 2.1 (5v), Bus 1		
Slot 5: fullsize, 32-bit PCI 2.1 (5v), Bus 0		
<p>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 ⑤ 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 ⑧ 3.5", SL 1", access, hot swap</p> <p>Bays 4 through 8 support 5 SL disks or 2 HH and 1 SL disk</p> <ul style="list-style-type: none"> ↔ 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 <p>Rack or Tower</p> <p>Stealth gray</p>		

IBM Netfinity® 5000 (1999) - withdrawn

IBM® Netfinity®:	Tower	Rack	Tower	Rack	Tower	Rack
	1 x Pentium III 500 Open bay	1 x Pentium III 500 Open bay	1 x Pentium III 550 Open bay	1 x Pentium III 550 Open bay	1 x Pentium III 600 Open bay	1 x Pentium III 600 Open bay
Type - model	< 8659-41Y Tower	< 8659-4RY EIA 19" Rack (5U ⁴)	< 8659-51Y Tower	< 8659-5RY EIA 19" Rack (5U ⁴)	< 8659-61Y Tower	< 8659-6RY EIA 19" Rack (5U ⁴)
Mechanical	None / supports 7200-10000 rpm disks					
Disk - capacity	Hot-swap / no trays included (disks ship w/ trays) / 80-pin SCA-2 connectors / 1 backplane / SAF-TE 1.0-compliant					
Disk - bays	Rack systems supported in Netfinity NetBAY22 and Netfinity Rack					
Rack support	March 1999 / April 2000					
Avail / withdrawn date	June 1999 / April 2000			August 1999 / July 2000		
Intel® processor(s)	1 x Pentium® III 500/100MHz ¹		1 x Pentium III 550/100MHz		1 x Pentium III 600/100MHz	
SMP support	2-way SMP via second identical processor / upgrade via SEC into second motherboard Slot 1 CPU connector / MPS 1.4					
Implementation	Motherboard contains two Intel Slot 1 connectors for SEC cartridge in protective metal case / open slot used by terminator					
Processor upgrade	Can upgrade to 1- or 2-way Pentium III 500 or 550MHz (not 600MHz)			To 2-way SMP with Pentium 600MHz		
L2 cache	512KB std / 512KB max / ECC / half speed of processor / processor and L2 cache in Single Edge Contact (SEC) cartridge					
Memory - std / max	128MB std / 2GB max / non-interleaved					
Memory - sockets	4 sockets / 3 available (all have Error Checking and Correcting memory controller)					
Memory - features	SDRAM /100MHz / four 168-pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / hardware scrubbing of ECC errors					
Memory - support	Supports registered SDRAM ECC DIMMs only (64, 128, 256, and 512MB)					
SCSI disk controller	Adaptec® AHA-7895 / dual channel Wide Ultra SCSI controller (40MB/sec) / on planar / 32-bit 33MHz PCI 2.1 / two channels (one internal/one external)				All models: Max int disk capacity: 91GB ² with five 18.2GB SL disks	
SCSI connectors and cables	SCSI Channel A: 16-bit 68-pin cable from controller to backplane / cable has another drop for device in open 5.25" bay					
RAID support	SCSI Channel B: 16-bit 68-pin cable to external SCSI port					
IDE controller / cable	Supports PCI ServeRAID adapters					
	Single Primary IDE (ROSB3) South Bridge / one connector on planar / one 1 drop IDE cable (to CD-ROM)					
Bus slots (see below)	PCI 2.1 (33MHz) / dual peer PCI / ISA slots (8.33MHz) / no hot-swap PCI slots					
Architecture / chipsets	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 / I ₂ O ready					
Bays / available	(See diagram below): 8 bays / two 5.25" HH bays (1 used) / one diskette bay / five hot-swap bays					
Status LEDs	Ten status LEDs / includes power, ethernet, security, disk, processor(s), POST, unattended					
10/100 ethernet	AMD Am79C972 / on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake on LAN® / RJ-45 connector / 3 LEDs					
CD-ROM	32X-14X ⁶ CD-ROM / multisession / IDE interface / 1.6" HH / bootable					
Diskette drive	3.5" 1.44MB diskette drive / dust cover / diskette cable has a second drop with card edge connector					
Serial / parallel / USB	Serial: Three 9-pin (one for Mgmt Processor) Parallel: One (EPP, ECP) / IEEE 1284 USB: Two ports					
Graphics controller	SVGA / PCI 2.1 bus / S3® Trio64V2 GX (on planar) / 1MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz					
Security	Power-on password / privileged access password / hinged and lockable front door (tower only) / unattended boot / selectable boot / secure mode (disables power on and reset button, keyboard, mouse) / U-bolt capability / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode					
Systems management	Netfinity Advanced System Mgmt Processor / on planar / provides remote console and mgmt / allows diagnostic, reset, POST, and auto recovery functions / monitors temperature, disks, fans, power supply					
Diagnostics	Light-Path Diagnostics / operator diagnostic panel / system board error LEDs / diagnostics in ROM					
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Mail Server Release 5 (Windows NT version) plus five client licenses ¹⁸ , AntiVirus software, and APC PowerChute Plus / includes Netfinity Manager, others					
Upgradeable EEPROMs	BIOS (remote), diagnostics (remote), and Mgmt Processor on motherboard can be upgraded					
Keyboard / mouse	Tower only: IBM 101-key keyboard / IBM mouse (both black)		Pentium III 500MHz/512KB Proc Upg		36L9673	
Power supply	Std: one 350 watt (consists of two 175-watt modules) / built-in redundancy (dependent upon configuration) / worldwide / voltage-sensing / auto-restart		Pentium III 550MHz/512KB Proc Upg		33L5112	
	Max: optional second 175 watt (second is required for redundancy when 175 watts are exceeded) / fans in each power supply		Pentium III 600MHz/512KB Proc Upg		33L5106	
Fans	Two fans / easy removal / PFA / fan failure signals Diagnostic LED and Mgmt Processor / power supply fans		64MB SDRAM ECC DIMM 100MHz (registered)		01K7241	
Other features	Plug and play BIOS / I2C diagnostic bus		128MB SDRAM ECC DIMM 100MHz (registered)		01K7262	
			256MB SDRAM ECC DIMM 100MHz (registered)		01K8043	
			512MB SDRAM ECC DIMM 100MHz (registered)		01K7263	
			Netfinity 5000 Rack-to-Tower Conversion Kit		10L6972	
			Netfinity 5000 Tower-to-Rack Conversion Kit		10L7006	
			Netfinity 175 watt Redundant Power Supply		10L7007	
			Netfinity 18.2GB 10K-3 Wide Ultra SCSI HS SL		36L9807	
			Netfinity 36.4GB 10K-3 Wide Ultra SCSI HS HH		36L9808	
			Netfinity Two-Drop Internal SCSI cable		36L9636	

Slot 1: fullsize, 16-bit ISA or 32-bit PCI 2.1 (5v), Bus 1	- Removable, easy release left side panel	LIMITED WARRANTY ⇨ 3 year parts and labor warranty ³ ⇨ International Warranty Service ³ ⇨ 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 or reseller warranty/service
Slot 2: fullsize, 16-bit ISA or 32-bit PCI 2.1 (5v), Bus 1	- Removable, easy release front cover	
Slot 3: fullsize, 32-bit PCI 2.1 (5v), Bus 1	- Quick release adapter slots (no screws)	
Slot 4: fullsize, 32-bit PCI 2.1 (5v), Bus 1	- Quick release motherboard removal	
Slot 5: fullsize, 32-bit PCI 2.1 (5v), Bus 0	- Setup Utility is available by pressing F1 at startup; Diagnostics (PC Doctor) by pressing F2 at startup (both in EEPROM)	
 <p>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 ⑤ 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 ⑧ 3.5", SL 1", access, hot swap</p>	- SCSISelect near startup by pressing CTRL+A	
 <p>Rack or Tower</p> <p>Stealth gray</p> <p>Bays 4 through 8 support 5 SL disks or 2 HH and 1 SL disk</p> <p>⇨ 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</p>	- 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	

IBM Netfinity® 5000 (2000) - withdrawn

	Tower	Rack	Tower	Rack
IBM® Netfinity®:	1 x Pentium III 650	1 x Pentium III 650	1 x Pentium III 700	1 x Pentium III 700
Type - model	8659-71Y	8659-7RY	8659-81Y	8659-8RY
Mechanical	Tower	EIA 19" Rack (5U ⁴)	Tower	EIA 19" Rack (5U ⁴)
Disk - capacity	None / supports 7200-10000 rpm disks			
Disk - bays	Hot-swap / no trays included (disks ship w/ trays) / 80-pin SCA-2 connectors / 1 backplane / SAF-TE 1.0-compliant			
Rack support	Rack systems supported in Netfinity NetBAY22 and Netfinity Rack			
Avail / withdrawn date	January 2000 / July 2000			
Intel® processor(s)	1 x Pentium® III 650/100MHz ¹		1 x Pentium III 700/100MHz	
SMP support	2-way SMP via second identical processor / upgrade via SECC2 into second motherboard Slot 1 CPU connector			
Implementation	Motherboard contains two Intel Slot 1 connectors for SEC cartridge in protective metal case / open slot used by terminator			
Processor upgrade	Support for second identical processor / 650MHz models can upgrade to 700MHz			
L2 cache	256KB std and max / ECC / at processor speed / processor and L2 cache in Single Edge Contact Cartridge (SECC2)			
Memory - std / max	128MB std / 2GB max / non-interleaved			
Memory - sockets	4 sockets / 3 available (all have Error Checking and Correcting memory controller)			
Memory - features	SDRAM / 100MHz / four 168-pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / hardware scrubbing of ECC errors			
Memory - support	Supports registered SDRAM ECC DIMMs only (64, 128, 256, and 512MB)			
SCSI disk controller	Adaptec® AHA-7895 / dual channel Wide Ultra SCSI controller (40MB/sec) / on planar / 32-bit 33MHz PCI 2.1 / two channels (one internal/one external)			All models: Max int disk capacity: 91GB ² with five 18.2GB SL disks
SCSI connectors and cables	SCSI Channel A: 16-bit 68-pin cable from controller to backplane / cable has another drop for device in open 5.25" bay SCSI Channel B: 16-bit 68-pin cable to external SCSI port			
RAID support	Supports PCI ServerRAID adapters			
IDE controller / cable	Single Primary IDE (ROSB3) South Bridge / one connector on planar / one 1 drop IDE cable (to CD-ROM)			
Bus slots (see below)	PCI 2.1 (33MHz) / dual peer PCI / ISA slots (8.33MHz) / no hot-swap PCI slots			
Architecture / chipsets	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 / I ₂ O ready			
Bays / available	(See diagram below): 8 bays / two 5.25" HH bays (1 used) / one diskette bay / five hot-swap bays			
Status LEDs	Ten status LEDs / includes power, ethernet, security, disk, processor(s), POST, unattended			
10/100 ethernet	AMD Am79C972 / on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake on LAN® / RJ-45 connector / 3 LEDs			
CD-ROM	32X-14X ⁶ CD-ROM / multisession / IDE interface / 1.6" HH / bootable			
Diskette drive	3.5" 1.44MB diskette drive / dust cover / diskette cable has a second drop with card edge connector			
Serial / parallel / USB	Serial: Three 9-pin (one for Mgmt Processor) Parallel: One (EPP, ECP) / IEEE 1284 USB: Two ports			
Graphics controller	SVGA / PCI 2.1 bus / S3® Trio64V2 GX (on planar) / 1MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz			
Security	Power-on password / privileged access password / hinged and lockable front door (tower only) / unattended boot / selectable boot / secure mode (disables power on and reset button, keyboard, mouse) / U-bolt capability / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode			
Systems management	Netfinity Advanced System Mgmt Processor / on planar / provides remote console and mgmt / allows diagnostic, reset, POST, and auto recovery functions / monitors temperature, disks, fans, power supply			
Diagnostics	Light-Path Diagnostics™ / operator diagnostic panel / system board error LEDs / diagnostics in ROM			
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server R5 (Windows NT or Linux version) plus five client licenses ¹⁹ , AntiVirus software, and APC PowerChute Plus / includes Netfinity Manager, others			
Upgradeable EEPROMs	BIOS (remote), diagnostics (remote), and Mgmt Processor on motherboard can be upgraded			
Keyboard / mouse	Tower only: IBM 101-key keyboard / IBM mouse (both black)		Pentium III 650/100MHz/256KB Proc Upg 10K2164	
Power supply	Std: one 350 watt (consists of two 175-watt modules) / built-in redundancy (dependent upon configuration) / worldwide / voltage-sensing / auto-restart		Pentium III 700/100MHz/256KB Proc Upg 10K2165	
	Max: optional second 175 watt (second is required for redundancy when 175 watts are exceeded) / fans in each power supply		64MB SDRAM ECC DIMM 100MHz (registered) 01K7241	
Fans	Two fans / easy removal / PFA / fan failure signals Diagnostic LED and Mgmt Processor / power supply fans		128MB SDRAM ECC DIMM100MHz (registered) 01K7262	
Other features	Plug and play BIOS / I2C diagnostic bus		256MB SDRAM ECC DIMM100MHz (registered) 01K8043	
			512MB SDRAM ECC DIMM100MHz (registered) 01K7263	
			Netfinity 5000 Rack-to-Tower Conversion Kit 10L6972	
			Netfinity 5000 Tower-to-Rack Conversion Kit 10L7006	
			Netfinity 175 watt Redundant Power Supply 10L7007	
			Netfinity 18.2GB 10K-3 Wide Ultra SCSI HS SL 36L9807	
			Netfinity 36.4GB 10K-3 Wide Ultra SCSI HS HH 36L9808	
			Netfinity Two-Drop Internal SCSI cable 36L9636	

<p>Slot 1: fullsize, 16-bit ISA or 32-bit PCI 2.1 (5v), Bus 1 Slot 2: fullsize, 16-bit ISA or 32-bit PCI 2.1 (5v), Bus 1 Slot 3: fullsize, 32-bit PCI 2.1 (5v), Bus 1 Slot 4: fullsize, 32-bit PCI 2.1 (5v), Bus 1 Slot 5: fullsize, 32-bit PCI 2.1 (5v), Bus 0</p> <p>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 ⑤ 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 ⑧ 3.5", SL 1", access, hot swap</p> <p>Bays 4 through 8 support 5 SL disks or 2 HH and 1 SL disk</p> <p>Stealth gray</p> <ul style="list-style-type: none"> ⇨ 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 	<ul style="list-style-type: none"> - 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 	<p style="text-align: center;">LIMITED WARRANTY</p> <ul style="list-style-type: none"> ⇨ 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: <ul style="list-style-type: none"> • 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^{®16} ⇨ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com) support ⇨ IBM or reseller warranty/service
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 • = Hot Swap

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IBM Netfinity® 5100 - withdrawn

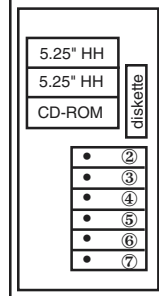
	Tower	Rack	Tower	Rack
IBM® Netfinity®:	1 x Pentium® III 667MHz Open bay	1 x Pentium III 667MHz Open bay	1 x Pentium III 733MHz Open bay	1 x Pentium III 733MHz Open bay
Type - model	8658-11Y	8658-1RY	8658-21Y	8658-2RY
Mechanical	Tower	EIA 19" Rack (5U ⁴)	Tower	EIA 19" Rack (5U ⁴)
Disk - capacity	None standard / supports 7200-10000 rpm disks / 1 backplane / SAF-TE 1.0-compliant			
Disk - bays	Six hot-swap / 80-pin SCA-2 connectors / common tray with EXP200 and later systems like 5600, 8500R			
Rack support	Rack systems supported in IBM NetfinityRacks / kit available to convert tower to rack (no rack to tower conversion)			
Avail / withdrawn date	April 2000 / December 2000			
Intel® processor(s)	1 x Pentium® III 667/133MHz ¹		1 x Pentium III 733/133MHz	
L2 cache	256KB std and max / ECC / at processor speed / processor and L2 cache in Single Edge Cartridge (SECC2)			
Implementation	Motherboard contains two Intel Slot 1 connectors for SECC2 cartridges (open Slot 1 used by terminator), one VRM socket (one VRM integrated), four DIMM sockets, PCI slots, and integrated subsystems			
SMP support	2-way SMP via second identical processor / upgrade via SECC2 into second Slot 1 CPU connector			
Processor upgrades	Planned upgrade to faster Intel processors will be provided at a later date			
Memory - std / max	128MB std / 4GB max			
Memory - sockets	4 sockets / 3 available / ECC / (all have Error Checking and Correcting (ECC) memory controller) / non-interleaved			
Memory - features	SDRAM / 133MHz / four 168-pin gold-plated DIMM 3.3 volt sockets / PC133-compliant			
Memory - support	Supports registered SDRAM ECC DIMMs only (128, 256, 512MB, and 1GB)			
SCSI disk controller	Adaptec® AHA-7899 / dual channel Wide Ultra160 SCSI controller (LVD 160MB/sec) / Ultra 160/m / on planar / 64-bit PCI / supports IBM ServeRAID adapters (no hardware RAID standard)			
SCSI channels	Two internal 16-bit channels / both internal (no external)			
IDE controller / cable	SCSI Channel A: 16-bit 68-pin LVD cable from controller to backplane Channel B: 16-bit 68-pin interface (not used) Single Primary IDE (ROSB4) South Bridge / one connector on planar / one 1 drop IDE cable (CD-ROM)			
	All models: Max int disk capacity: 218.4GB ² with six 36.4GB SL disks			
Bus slots (see below)	PCI 2.1 (33MHz) / dual peer PCI / 64-bit PCI (three PCI slots, SCSI controller) / 32-bit PCI (two PCI slots, graphics, ethernet, South Bridge) / no hot-swap slots			
Chip set	ServerWorks® ServerSet™ III LE chip set / NB6635 North Bridge 3.0LE / IB6566 South Bridge for IDE, USB, ISA bus for Service Processor and Super I/O National Semiconductor® PC97317VUL (diskette, parallel, serial, keyboard, mouse)			
Bays / available	(See diagram below): 10 bays / three 5.25" HH bays (1 used by CD-ROM) / one diskette bay / six hot-swap bays			
Status LEDs	Operator Information Panel (in front) / includes Info Light, System Error Light, Processor Activity, Ethernet Speed, others			
10/100 ethernet	AMD® Am79C975 / on planar / 10BaseT, 100BaseTX / full duplex / RJ-45 connector / 3 front LEDs			
CD-ROM / diskette	40X-17X ³ CD-ROM / multisession / IDE interface / 1.6" HH / bootable; Diskette: 3.5" 1.44MB diskette drive / dust cover			
Serial / parallel / USB	Serial: Three 9-pin (one for Mgmt Processor) Parallel: One (EPP, ECP) / IEEE 1284 USB: Two ports (Version 1.1)			
Graphics controller	SVGA / PCI 2.1 bus / S3® Savage4 (on planar) / 8MB SDRAM std/max / 1280x1024 at 16M colors at 100Hz / DDC2B			
Security	Power-on password / administrator password / system owner's name / hinged and lockable front door to cover disk bays, power button, and reset button (tower only) / unattended boot / selectable boot / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode			
Systems management	Netfinity Advanced System Mgmt Processor / on planar / provides remote console and mgmt / allows diagnostic, reset, POST, and auto recovery functions / monitors temperature, fans, and power supplies			
Diagnostics	Diagnostics LED Panel (under cover) / Light-Path Diagnostics™ provides an LED map to failing component / system board error LEDs / diagnostics in ROM by pressing F2 at startup for PC-Doctor			
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server R5 (Windows NT or Linux version) plus five client licenses ¹⁹ , AntiVirus software, and APC PowerChute Plus / includes Netfinity Director, others			
Upgradeable EEPROMs	BIOS (remote), diagnostics (remote), and Mgmt Processor on motherboard can be upgraded			
Keyboard / mouse	Tower only: IBM 101-key keyboard / IBM mouse (both black)			
Power supply	Std: one 250 watt hot-swap; Max: three 250 watt hot-swap with optional Exp Kit 37L6881 / redundant with two power supplies / worldwide / voltage-sensing / auto-restart / fans in each power supply			
Fans	Two (fan in rear, blower in front) / not hot-swap / PFA / fan failure signals Diagnostic LED and Mgmt Processor / fan in each power supply			
Prerequisites	Monitor, disk, network operating system, keybd/mouse (rack)			
Slot 1: fullsize, 32-bit 33MHz PCI 2.1 (5v), Bus A	➤ Removable, easy release left/top side panel			
Slot 2: fullsize, 32-bit 33MHz PCI 2.1 (5v), Bus A	➤ Quick release adapter slots (no screws)			
Slot 3: fullsize, 64-bit 33MHz PCI 2.1 (5v), Bus B	➤ Rail system enables devices (CD-ROM, diskette, tape drives) to snap in and out without screws			
Slot 4: fullsize, 64-bit 33MHz PCI 2.1 (5v), Bus B	➤ Configuration/Setup Utility invoked by pressing F1 at startup			
Slot 5: fullsize, 64-bit 33MHz PCI 2.1 (5v), Bus B	➤ SCSISelect near startup by pressing CTRL+A			
Slot 7: fullsize, 64-bit 33MHz PCI 2.1 (5v), Bus B	➤ Several hardcopy publications			
	➤ Predictive failure analysis on disk options, memory, processors, VRMs, power supplies, and fans in conjunction with Netfinity Director can alert the system administrator of an imminent component failure			
	➤ Tower: H 16.8" x W 8.6" x D 26.0"			
	➤ Rack: H 8.6" x W 16.8" x D 24.8"			
	➤ 55.7 to 82.7 pounds			
	➤ Stealth black color			
	➤ All non-hot-swaps bays use rails (no screws) for devices			
	<div style="border: 1px solid black; padding: 5px;"> <p>Bay 1 3.5", SL 1", access, diskette</p> <p>Bay 2 3.5", SL 1", access, hot swap</p> <p>Bay 3 3.5", SL 1", access, hot swap</p> <p>Bay 4 3.5", SL 1", access, hot swap</p> <p>Bay 5 3.5", SL 1", access, hot swap</p> <p>Bay 6 3.5", SL 1", access, hot swap</p> <p>Bay 7 3.5", SL 1", access, hot swap</p> <p>Bay 8 5.25", HH 1.6" access, open</p> <p>Bay 9 5.25", HH 1.6" access, open</p> <p>Bay 10 5.25", HH 1.6" access, CD-ROM</p> <p>Bays 2 through 7 support 6 SL disks or 3 HH hot-swap disks via SCA-2 connectors; Bays 8 and 9 support 3.5" disks via Media Bay Conversion Kit</p> </div>			
	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">LIMITED WARRANTY</p> <p>➤ 3 year parts and labor warranty³</p> <p>➤ International Warranty Service³</p> <p>➤ On site warranty all 3 years</p> <p>➤ All cities in all states</p> <p>➤ 8 am - 5 pm, Mon-Fri coverage</p> <p>➤ Next business day average response time</p> <p>➤ On site warranty upgrade options:</p> <ul style="list-style-type: none"> • 24 hr / 7 day coverage, 4 hour average response⁷ time • 24 hr / 7 day coverage, 2 hour average response⁷ time (in eligible locations) <p>➤ 90-day IBM Start Up Support</p> <p>➤ IBM SystemXtra^{®16}</p> <p>➤ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com) support</p> <p>➤ IBM or reseller warranty/service</p> </div>			
Rack or Tower (tower shown above)				

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• = Hot Swap

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IBM Netfinity® 5100 (Spring 2000) - withdrawn

IBM® Netfinity®: Type-model	Qty x Processor	Memory	Disk	SCSI controller	Mechanical	Slots x bays	Hot-swap disk bays	ethernet	Available date
8658-31Y	1 x Pentium® III 800/133	128MB	None	2 x Ultra160	Tower	5 slots x 10 bays	6 hot-swap	10/100 ethernet	May 2000
8658-3RY	1 x Pentium III 800/133	128MB	None	2 x Ultra160	5U rack	5 slots x 10 bays	6 hot-swap	10/100 ethernet	May 2000
8658-41Y	1 x Pentium III 866/133	128MB	None	2 x Ultra160	Tower	5 slots x 10 bays	6 hot-swap	10/100 ethernet	May 2000
8658-4RY	1 x Pentium III 866/133	128MB	None	2 x Ultra160	5U rack	5 slots x 10 bays	6 hot-swap	10/100 ethernet	May 2000
8658-51Y	1 x Pentium III 933/133	128MB	None	2 x Ultra160	Tower	5 slots x 10 bays	6 hot-swap	10/100 ethernet	June 2000
8658-5RY	1 x Pentium III 933/133	128MB	None	2 x Ultra160	5U rack	5 slots x 10 bays	6 hot-swap	10/100 ethernet	June 2000
Intel® processor(s) L2 cache Implementation	1 x Pentium® III 800EB, 866, or 933MHz¹ with 133MHz Front Side Bus 256KB std and max / ECC / at processor speed / processor and L2 cache in Single Edge Cartridge (SECC2)								
SMP support	Motherboard contains two Intel Slot 1 connectors for SECC2 cartridges (open Slot 1 used by terminator), one VRM socket (one VRM integrated), four DIMM sockets, PCI slots, and integrated subsystems								
Processor upgrades	2-way SMP via second identical processor / upgrade via SECC2 into second Slot 1 CPU connector Models with 800EB and 866MHz can not upgrade to 933MHz; only 933MHz models can upgrade to 1GHz								
Memory - std / max	128MB std / 4GB max								
Memory - sockets	4 sockets / 3 available / ECC (all have Error Checking and Correcting (ECC) memory controller) / non-interleaved								
Memory - features	SDRAM / 133MHz / four 168-pin gold-plated sockets / PC133-compliant / supports registered SDRAM ECC DIMMs only								
SCSI disk controller	Adaptec® AHA-7899 / dual channel Wide Ultra160 SCSI controller (LVD 160MB/sec) / Ultra 160/m / on planar / 64-bit PCI / supports IBM ServeRAID adapters (no hardware RAID standard)								
SCSI channels	Two internal 16-bit channels / both internal (no external) <i>Channel A:</i> 16-bit 68-pin LVD cable from controller to backplane <i>Channel B:</i> 16-bit 68-pin interface (not used)								
IDE controller / cable	Single Primary IDE (ROSB4) South Bridge / one connector on planar / one 1 drop IDE cable (CD-ROM)								
Disk - capacity	None standard / supports 7200-10000 rpm disks / 1 backplane								All models: Max int disk capacity: 218.4GB ² with six 36.4GB SL disks
Disk - bays	Six hot-swap / 80-pin SCA-2 connectors / common tray with EXP200 and later systems like 5600, 8500R								
Mechanical	Tower or EIA 19" Rack (5U¹)								
Rack support	Rack systems supported in IBM NetfinityRacks / kit available to convert tower to rack (no rack to tower conversion)								
Bus slots (see below)	PCI 2.1 (33MHz) / dual peer PCI / 64-bit PCI (three PCI slots, SCSI controller) / 32-bit PCI (two PCI slots, graphics, ethernet, South Bridge) / no hot-swap slots								
Chip set	ServerWorks® ServerSet III™ LE chip set / NB6635 North Bridge 3.0LE / IB6566 South Bridge for IDE, USB, ISA bus for Server Processor and Super I/O National Semiconductor® PC97317VUL (diskette, parallel, serial, keyboard, mouse)								
Bays / available	(See diagram below): 10 bays / three 5.25" HH bays (1 used by CD-ROM) / one diskette bay / six hot-swap bays								
10/100 ethernet	AMD® Am79C975 / on planar / 10BaseT, 100BaseTX / full duplex / RJ-45 connector / 3 front LEDs								
CD-ROM / diskette	40X-17X ⁶ CD-ROM / multisession / IDE interface / 1.6" HH / bootable; <i>Diskette:</i> 3.5" 1.44MB diskette drive / dust cover								
Serial / parallel / USB	<i>Serial:</i> Three 9-pin (one for Mgmt Processor) <i>Parallel:</i> One (EPP, ECP) / IEEE 1284 <i>USB:</i> Two ports (Version 1.1)								
Graphics controller	SVGA / PCI 2.1 bus / S3® Savage4 (on planar) / 8MB SDRAM std/max / 1280x1024 at 16M colors at 100Hz / DDC2B								
Security	Power-on password / administrator password / system owner's name / hinged and lockable front door to cover disk bays, power button, and reset button (tower only) / unattended boot / selectable boot / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode								
Systems mgmt	Netfinity Advanced System Mgmt Processor / on planar / provides remote console and mgmt / allows diagnostic, reset, POST, and auto recovery functions / monitors temperature, fans, and power supplies								
Diagnostics	Diagnostics LED Panel (under cover) / Light Path Diagnostics™ provides an LED map to failing component / system board error LEDs / diagnostics in ROM by pressing F2 at startup for PC-Doctor								
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server R5 (Windows NT or Linux version) plus five client licenses ¹⁹ , AntiVirus software, and APC PowerChute Plus / includes Netfinity Director, others								
Keyboard / mouse	<i>Tower only:</i> IBM 101-key keyboard / IBM mouse (both black)								
Power supply	Std: one 250 watt hot-swap; Max: three 250 watt hot-swap with optional Exp Kit 37L6881 / redundant with two power supplies / worldwide / voltage-sensing / auto-restart / fans in each power supply								
Fans	Two (fan in rear, blower in front) / not hot-swap / PFA / fan failure signals Diagnostic LED and Mgmt Processor / fan in each power supply								
Prerequisites	Monitor, disk, network operating system, keybd/mouse (rack)								
Slot 1: fullsize, 32-bit 33MHz PCI 2.1 (5v), Bus A	⇨ Removable, easy release left/top side panel								
Slot 2: fullsize, 32-bit 33MHz PCI 2.1 (5v), Bus A	⇨ Quick release adapter slots (no screws)								
Slot 3: fullsize, 64-bit 33MHz PCI 2.1 (5v), Bus B	⇨ Rail system enables devices (CD-ROM, diskette, tape drives) to snap in and out without screws								
Slot 4: fullsize, 64-bit 33MHz PCI 2.1 (5v), Bus B	⇨ Configuration/Setup Utility invoked by pressing F1 at startup								
Slot 5: fullsize, 64-bit 33MHz PCI 2.1 (5v), Bus B	⇨ SCSISelect near startup by pressing CTRL+A								
Slot 6: fullsize, 64-bit 33MHz PCI 2.1 (5v), Bus B	⇨ Operator Information Panel (in front)								
	⇨ Predictive failure analysis on disk options, memory, processors, VRMs, power supplies, and fans in conjunction with Netfinity Director can alert the system administrator of an imminent component failure								
	⇨ Tower: H 16.8" x W 8.6" x D 26.0"								
	⇨ Rack: H 8.6" x W 16.8" x D 24.8"								
	⇨ 55.7 to 82.7 pounds								
	⇨ Stealth black color								
	⇨ All non-hot-swaps bays use rails (no screws) for devices								
	LIMITED WARRANTY								
	⇨ 3 year parts and labor limited 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 x 7 day coverage, 4 hour response⁷ time								
	• 24 hr x 7 day coverage, 2 hour response⁷ time (in eligible locations)								
	⇨ IBM Start Up Support								
	⇨ 24 hour x 7 day telephone¹⁴, fax, electronic, and Internet support								



Rack or Tower (tower shown above)

• = Hot-swap

Models 3xx withdrawn effective December 2000; 4xx models withdrawn effective June 2001;

Models 5xx withdrawn effective September 2001

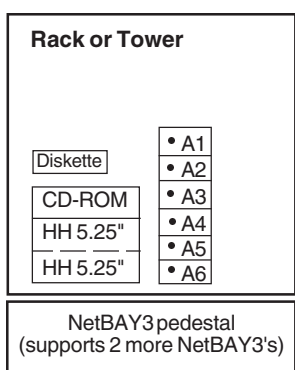
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IBM Netfinity® 5500 - withdrawn

	Rack	Tower / NetBAY3	Rack	Tower / NetBAY3
IBM® Netfinity®:	1 x Pentium II 350/100 open bay	1 x Pentium II 350/100 open bay	1 x Pentium II 400/100 open bay	1 x Pentium II 400/100 open bay
Type - model	8660-1RU	8660-11U	8660-4RU	8660-41U
Mechanical	EIA 19" rack model (8U ⁴)	Tower	EIA 19" rack model (8U)	Tower
Rack / conversion	Rack systems supported in IBM Netfinity Rack products / kits available to convert rack to tower or tower to rack			
Disk - capacity	None standard			
Disk - bays	Hot-swap / no trays included (disks ship w/ trays) / 80 pin SCA-2 connectors / 1 backplanes (bank) / SAF-TE 1.0 compliant			
Avail / withdrawn date	June 1998 / April 1999		June 1998 / May 1999	
Processor(s) / L2 cache	1 x Pentium® II 350/100MHz ¹ / 512KB L2 cache		1 x Pentium II 400/100MHz / 512KB L2 cache	
Processor upgrade(s)	2 way SMP via to identical Pentium II or Pentium III processors (Processor Card contains two Intel Slot 1 connectors) Upgrade to two-way identical Pentium II Xeon™ or Pentium III Xeon Slot 2 CPUs (with Netfinity Upg Kit for Pent II Xeon) Upgrade to four-way identical Pentium II Xeon or PIII Xeon Slot 2 CPUs (with Netfinity Four-Way Proc Upg Kit)			
Processor Card	Processor Card contains two Slot 1's, 440BX Host Bridge, 4 DIMM sockets, PCI-to-PCI bridge, two I2C thermal monitors			
L2 cache - features	512KB std / 512KB max / ECC / half speed of processor / integrated in Single Edge Contact (SEC) cartridge			
Mem - std / max / type	128MB std / 1GB max / Error Checking and Correction (ECC)			
Memory - sockets	4 sockets / 3 available (all have Error Checking and Correcting memory controller)			
Memory - capacity	SDRAM / 100MHz / four 168 pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / hardware scrubbing of ECC errors			
Memory - support	Supports SDRAM ECC DIMMs (64, 128, 256MB) / only 256MB DIMMs are registered (buffered); can not mix reg/non-reg			
SCSI controller / RAID	Wide Ultra SCSI PCI RAID / dual channel / RAID 0, 1, 5		All models: Maximum internal disk capacity:	
Adapter vendor / chip	IBM / ServeRAID II / on motherboard / PCI primary bus		54.6GB with six 9.1GB SL HS Wide Ultra SCSI disks;	
Cache	4MB std/max / write-through or write-back		234.6GB with optional EXP10 in NetBAY3 w/ ten 18GB disks	
Channels	Two channels (internal) / each uses Adaptec AIC-7880P			
Connectors	Each channel: 1 internal (16-bit) / no external connector, but 3 external knockouts for optional cable from internal connector			
SCSI cabling	16-bit cable from ServeRAID II to backplane / two drop 16-bit SCSI cable included to support devices in two open left bays			
IDE controller / cabling	Enhanced IDE controller / one drop IDE cable from IDE controller to CD-ROM			
Architecture / chip sets	Intel® 440BX AGPset / PIIX4E 82371EB (EIDE (Ultra DMA/33), ISA Bridge, USB) / IBM ServeRAID II (SCSI RAID) / IBM PCI-to-PCI Bridge (27-82353); four hot-swap PCI slots off secondary bus; all other PCI slots/devices off primary bus / NS PC9731 7VUL Super I/O / PCI 2.1 (33MHz) / I/O ready			
Bus slots	7 slots available: 4 hot-swap PCI slots ¹⁰ with power and attention indicator lights (optical sensors control power to slot/ PCI adapters); replace or add; separated by insulative plastic dividers / 2 PCI slots / 1 ISA slot (see below)			
Bays / available	10 bays total: 6 hot-swap disk bays / three 5.25" HH bays (1 used) / one 3.5" SL bay (diskette) / see below Tower models: NetBAY3 on bottom (3U pedestal for rack-based EXP10 disks, routers, UPS) / supports 2 more NetBAY3			
Ethernet controller	AMD Am79C971 / on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake-on-LAN / RJ-45 connector / 3 LEDs			
CD-ROM / diskette	32X-14X ⁶ CD-ROM / IDE interface / bootable; Diskette 3.5" 1.44 MB diskette drive / diskette cable has a second drop			
Serial / parallel / USB	Serial: Three 9 pin (one for Mgmt Processor) Parallel: One (EPP, ECP) / IEEE 1284 USB: Two ports			
Graphics controller	SVGA / PCI 2.1 primary bus / S3® Trio64V2 GX (on planar) / 1MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz			
Security	Power-on password / administrator password / door and top cover mechanical lock (tower only) / NetBAY3 bezel lock / selectable boot / secure mode (disables power on and reset button, keyboard, mouse) / diskette, mouse, CD-ROM disable / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode			
Systems management	Netfinity Advanced Remote Mgmt Processor (service processor) / on planar / provides remote console and mgmt		64MB SDRAM 100MHz ECC DIMM 01K8022	
Diagnostics	Light Path Diagnostics Panel providing LED map to failing part		128MB SDRAM 100MHz ECC DIMM 01K8023	
Serviceability	Slide out shuttle drawer for Proc Card, planar, and I/O adptrs		256MB SDRAM 100MHz ECC DIMM (register) 01K8043	
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server Release 5 (Windows NT version) plus five client licenses ¹⁸ , Norton AntiVirus, and APC PowerChute Plus / includes Netfinity® Manager and others		Pentium II 350MHz/512KB Proc Upg 10L5883	
Upgradeable EEPROMs	BIOS (remote), diagnostics (remote), Mgmt Processor, and ServeRAID II EEPROMs on motherboard can be upgraded		Pentium II 400MHz/512KB Proc Upg 10L5884	
Keyboard / mouse	Tower: IBM 101 key keyboard / IBM mouse (both black)		Pentium III 500MHz/512KB Proc Upg 36L9673	
Power supply	Std: one 400 watt hot-swap; Max: two 400 watt hot-swap		Pentium III 550MHz/512KB Proc Upg 33L5112	
Fans	Requires minimum of one / second is redundant / tool-free install		Netfinity Upg Kit for Pentium II Xeon (2-way) 01K8049	
Other features	Universal (voltage sensing) / fans in each power supply / PFA		Netfinity Four-Way Processor Upgrade Kit 28L1014	
	Three hot-swap redundant fans / variable speed / under top cover / each fan unique / PFA / fan failure signals Diagnostic LED and Mgmt Processor / power supply fan		Pentium III Xeon 500MHz/512KB Proc Upg 33L5053	
	Plug and play BIOS / I2C diagnostic bus		Pentium III Xeon 500MHz/1MB Proc Upg 33L5054	
			Pentium III Xeon 550MHz/512KB Proc Upg (not supported in Netfinity Four-Way Proc Upg Kit) 33L5110	
			Pentium III Xeon 550MHz/512KB Proc Upg* 33L5107	
			Pentium III Xeon 550MHz/1MB Proc Upg* 33L5108	
			*only supported in Four-Way Proc Upg Kit	
			Netfinity 400W Hot-Swap Redundant Power II 01K7951	
			Netfinity SCSI Controller Cable (to cut out) 03K9313	

- ◇ Tower dim: H 20.9" x W 19" x D 27.6"; 85 to 120 lbs
- ◇ Rack dimen: H 14" x W 17.3" x D 25.6"; 85 to 120 lbs



- ◇ Black color
- ◇ ACPI 1.0
- ◇ Orange components/ labels indicate hot-swap options
- ◇ 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

- Slot 1: fullsize, 32-bit PCI 2.1, Hot-swap, sec**
- Slot 2: fullsize, 32-bit PCI 2.1, Hot-swap, sec**
- Slot 3: fullsize, 32-bit PCI 2.1, Hot-swap, sec**
- Slot 4: fullsize, 32-bit PCI 2.1, Hot-swap, sec**
- Slot 5: fullsize, 32-bit PCI 2.1, primary PCI bus
- Slot 6: fullsize, 32-bit PCI 2.1, primary PCI bus
- Slot 7: fullsize, 16-bit ISA
- ** 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

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 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

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• = Hot Swap

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IBM Netfinity® 5500 (Fall 1998) - withdrawn

IBM® Netfinity®	Tower / NetBAY3	Rack	Tower / NetBAY3	Rack	Tower / NetBAY3	Rack
	1 x Pentium II 400 open bay	1 x Pentium II 400 open bay	1 x Pentium II 450 open bay	1 x Pentium II 450 open bay	1 x Pentium II 450 open bay	1 x Pentium II 450 open bay
Type - model	8660-42U	8660-4SU	8660-51U	8660-5RU	8660-52U	8660-5SU
Mechanical	Tower	EIA 19" rack (8U*)	Tower	EIA 19" rack (8U)	Tower	EIA 19" rack (8U)
Rack / conversion	Rack systems supported in IBM Netfinity Rack products / kits available to convert rack to tower or tower to rack					
Disk - capacity	None standard / supports 10K rpm disks					
Disk - bays	Hot-swap / no trays included (disks ship w/ trays) / 80 pin SCA-2 connectors / 1 backplanes (bank) / SAF-TE 1.0 compliant					
Avail / withdrawn date	September 1998 / May 1999			September 1998 / October 1999		
Intel® processor / L2 Processor upgrade(s)	1 x Pentium® II 400/100MHz² / 512KB			1 x Pentium II 450/100MHz / 512KB L2 cache		
Processor Card	2 way SMP via to identical Pentium II or Pentium III processors (Processor Card contains two Intel Slot 1 connectors) Upgrade to two-way identical Pentium II Xeon™ or Pentium III Xeon Slot 2 CPUs (with Netfinity Upg Kit for Pent II Xeon) Upgrade to four-way identical Pentium II Xeon or PIII Xeon Slot 2 CPUs (with Netfinity Four-Way Proc Upg Kit)					
L2 cache - features	Processor Card contains two Slot 1's, 440BX Host Bridge, 4 DIMM sockets, PCI-to-PCI bridge, two I2C thermal monitors 512KB std / 512KB max / ECC / 1/2 speed of processor / integrated in Single Edge Contact (SEC) cartridge					
Mem - std / max / type	256MB registered std / 1GB max / ECC			128MB std / 1GB max / ECC		
Memory - sockets	4 sockets / 3 available (all have Error Checking and Correcting memory controller)					
Memory - features	SDRAM / 100MHz / four 168 pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / hardware scrubbing of ECC errors					
Memory - support	Supports SDRAM ECC DIMMs (64, 128, 256MB) / only 256MB DIMMs are registered (buffered); can not mix reg/non-reg					
SCSI controller / RAID	Wide Ultra SCSI PCI RAID / dual channel / RAID 0, 1, 5			All models: Maximum internal disk capacity:		
Adapter vendor / chip	IBM / ServeRAID II / on motherboard / PCI primary bus			54.6GB with six 9.1GB SL HS Wide Ultra SCSI disks;		
Cache	4MB std/max / write-through or write-back			234.6GB with optional EXP10 in NetBAY3 w/ ten 18GB disks		
Channels	Two channels (internal) / each uses Adaptec AIC-7880P					
Connectors	<i>Each channel:</i> 1 internal (16-bit) / no external connector, but 3 external knockouts for optional cable from internal connector					
SCSI cabling	16-bit cable from ServeRAID II to backplane / two drop 16-bit SCSI cable included to support devices in two open left bays					
IDE controller / cabling	Enhanced IDE controller / one drop IDE cable from IDE controller to CD-ROM					
Architecture / chip sets	Intel 440BX AGPset / PIIX4E 82371EB (EIDE (Ultra DMA/33), ISA Bridge, USB) / IBM ServeRAID II (SCSI RAID) / IBM PCI-to-PCI Bridge (27-82353); four hot-swap PCI slots off secondary bus; all other PCI slots/devices off primary bus / NS PC9731 7VUL Super I/O / PCI 2.1 (33MHz) / I/O ready					
Bus slots	7 slots available: 4 hot-swap PCI slots¹⁰ with power and attention indicator lights (optical sensors control power to slot/ PCI adapters); <i>replace or add</i> ; separated by insulative plastic dividers / 2 PCI slots / 1 ISA slot (see below)					
Bays / available	10 bays total: 6 hot-swap disk bays / three 5.25" HH bays (1 used) / one 3.5" SL bay (diskette) / see below <i>Tower models:</i> NetBAY3 on bottom (3U pedestal for rack-based EXP10 disks, routers, UPS) / supports 2 more NetBAY3					
Ethernet controller	AMD® Am79C971 / on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake on LAN® / RJ-45 connector / 3 LEDs					
CD-ROM / diskette	32X-14X® CD-ROM / IDE interface / bootable; <i>Diskette</i> 3.5" 1.44 MB diskette drive / diskette cable has a second drop					
Serial / parallel / USB	<i>Serial:</i> Three 9 pin (one for Mgmt Processor) <i>Parallel:</i> One (EPP, ECP) / IEEE 1284 <i>USB:</i> Two ports					
Graphics controller	SVGA / PCI 2.1 primary bus / S3® Trio64V2 GX (on planar) / 1MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz					
Security	Power-on password / administrator password / door and top cover mechanical lock (tower only) / NetBAY3 bezel lock / selectable boot / secure mode (disables power on and reset button, keyboard, mouse) / diskette, mouse, CD-ROM disable / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode					
Systems management	Netfinity Advanced Remote Mgmt Processor (service processor) / on planar / provides remote console and mgmt			64MB SDRAM 100MHz ECC DIMM 01K8022		
Diagnostics	Light Path Diagnostics Panel providing LED map to failing part			128MB SDRAM 100MHz ECC DIMM 01K8023		
Serviceability	Slide out shuttle drawer for Proc Card, planar, and I/O adptrs			256MB SDRAM 100MHz ECC DIMM (register) 01K8043		
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server Release 5 (Windows NT version) plus five client licenses ¹⁸ , Norton AntiVirus, and APC PowerChute Plus / includes Netfinity® Manager and others			Pentium II 400MHz/512KB Proc Upg 10L5884		
Upgradeable EPROMs	BIOS (remote), diagnostics (remote), Mgmt Processor, and ServeRAID II EEPROMs on motherboard can be upgraded			Pentium II 450MHz/512KB Proc Upg 10L5900		
Keyboard / mouse	<i>Tower:</i> IBM 101 key keyboard / IBM mouse (both black)			Pentium III 500MHz/512KB Proc Upg 36L9673		
Power supply	Std: one 400 watt hot-swap; Max: two 400 watt hot-swap Requires minimum of one / second is redundant / tool-free install			Pentium III 550MHz/512KB Proc Upg 33L5112		
Fans	Universal (voltage sensing) / fans in each power supply / PFA			Netfinity Upg Kit for Pentium II Xeon (2-way) 01K8049		
Other features	Three hot-swap redundant fans / variable speed / under top cover / each fan unique / PFA / fan failure signals Diagnostic LED and Mgmt Processor / power supply fan			Netfinity Four-Way Processor Upgrade Kit 28L1014		
	Plug and play BIOS / I2C diagnostic bus			Pentium III Xeon 500MHz/512KB Proc Upg 33L5053		
				Pentium III Xeon 550MHz/512KB Proc Upg (not supported in Netfinity Four-Way Proc Upg Kit) 33L5110		
				Pentium III Xeon 550MHz/512KB Proc Upg* 33L5107		
				Pentium III Xeon 550MHz/1MB Proc Upg* 33L5108		
				*only supported in Four-Way Proc Upg Kit		
				Netfinity 400W Hot-Swap Redundant Power II 01K7951		
				IBM 10/100 Netfinity Fault Tolerant Adapter 08L3341		

<p>⊖ Tower dim: H 20.9" x W 19" x D 27.6"; 85 to 120 lbs</p> <p>⊖ Rack dimen: H 14" x W 17.3" x D 25.6"; 85 to 120 lbs</p>	<p>Slot 1: fullsize, 32-bit PCI 2.1, Hot-swap, sec**</p> <p>Slot 2: fullsize, 32-bit PCI 2.1, Hot-swap, sec**</p> <p>Slot 3: fullsize, 32-bit PCI 2.1, Hot-swap, sec**</p> <p>Slot 4: fullsize, 32-bit PCI 2.1, Hot-swap, sec**</p> <p>Slot 5: fullsize, 32-bit PCI 2.1, primary PCI bus</p> <p>Slot 6: fullsize, 32-bit PCI 2.1, primary PCI bus</p> <p>Slot 7: fullsize, 16-bit ISA</p> <p>** secondary PCI bus</p> <p>⊖ Setup Program is available by pressing F1 at startup; Diagnostics (PC Doctor) by pressing F2 at startup</p> <p>⊖ Lockable hinged, removable door to access front panel and removable media</p> <p>⊖ Removeable top cover and two side covers</p> <p>⊖ Access adapters, memory, CPUs from top</p> <p>⊖ 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</p>	<p>WARRANTY SERVICE SUPPORT</p> <p>⊖ 3 year parts and labor warranty³</p> <p>⊖ International Warranty Service³</p> <p>⊖ On site warranty all 3 years</p> <p>⊖ All cities in all states</p> <p>⊖ 8 am - 5 pm, Mon-Fri coverage</p> <p>⊖ Next business day response time</p> <p>⊖ On site warranty upgrade options:</p> <ul style="list-style-type: none"> • 24 hr / 7 day coverage, 4 hour response⁷ time • 24 hr / 7 day coverage, 2 hour response⁷ time (in eligible locatns) <p>⊖ 90-day IBM Start Up Support</p> <p>⊖ IBM SystemXtra®</p> <p>⊖ 24 hour / 7 day telephone¹⁴, bulletin board, fax, electronic, and Internet (www.pc.ibm.com/server) support</p> <p>⊖ IBM or reseller warranty/service</p>
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IBM Netfinity® 5500 (1999) - withdrawn

IBM® Netfinity®	Tower / NetBAY3	Rack	Tower / NetBAY3	Rack
	1 x Pentium III 500 open bay	1 x Pentium III 500 open bay	1 x Pentium III 550 open bay	1 x Pentium III 550 open bay
Type - model	8660-61U	8660-6RU	8660-72U	8660-7SU
Mechanical	Tower	EIA 19" rack (8U⁴)	Tower	EIA 19" rack (8U⁴)
Rack / conversion	Rack systems supported in IBM Netfinity Rack products / kits available to convert rack to tower or tower to rack			
Disk - capacity	None standard / supports 10K rpm disks			
Disk - bays	Hot-swap / no trays included (disks ship w/ trays) / 80 pin SCA-2 connectors / 1 backplanes (bank) / SAF-TE 1.0 compliant			
Avail / withdrawn date	March 1999 / April 2000		June 1999 / April 2000	
Intel® processor / L2 Processor upgrade(s)	1 x Pentium® III 500/100MHz¹ 2 way SMP via to identical Pentium III processors (Processor Card contains two Intel Slot 1 connectors) Upgrade to two-way identical Pentium III Xeon™ Slot 2 CPUs (with Netfinity Upg Kit for Pentium II Xeon) Upgrade to four-way identical Pentium III Xeon Slot 2 CPUs (with Netfinity Four-Way Proc Upg Kit)		1 x Pentium III 550/100MHz	
Processor Card	Processor Card contains two Slot 1's, 440BX Host Bridge, 4 DIMM sockets, PCI-to-PCI bridge, two I2C thermal monitors			
L2 cache	512KB std / 512KB max / ECC / half speed of processor / integrated in Single Edge Contact (SEC) cartridge			
Mem - std / max / type	128MB std / 1GB max / ECC		256MB std / 1GB max / ECC	
Memory - sockets	4 sockets / 3 available (all have Error Checking and Correcting memory controller)			
Memory - features	SDRAM / 100MHz / four 168 pin gold-plated DIMM 3.3v sockets / PC100-compliant / hardware scrubbing of ECC errors			
Memory - support	Supports registered (buffered) SDRAM ECC DIMMs (128, 256MB) only			
SCSI controller / RAID	Wide Ultra SCSI PCI RAID / dual channel / RAID 0, 1, 5		All models: Maximum internal disk capacity:	
Adapter vendor / chip	IBM / ServeRAID II / on motherboard / PCI primary bus		109.2GB with six 18.2GB SL Hot-Swap Wide Ultra SCSI disks;	
Cache	4MB std/max / write-through or write-back		234.6GB with optional EXP15 in NetBAY3 w/ ten 18GB disks	
Channels	Two channels (internal) / each uses Adaptec AIC-7880P			
Connectors	<i>Each channel:</i> 1 internal (16-bit) / optional external connector (3 external knockouts) via optional cable from int connector			
SCSI cabling	16-bit cable from ServeRAID II to backplane / two drop 16-bit SCSI cable included to support devices in two open left bays			
IDE controller / cabling	Enhanced IDE controller / one drop IDE cable from IDE controller to CD-ROM			
Architecture / chip sets	Intel 440BX AGPset / PIIX4E 82371EB (EIDE (Ultra DMA/33), ISA Bridge, USB) / IBM ServeRAID II (SCSI RAID) / IBM PCI-to-PCI Bridge (27-82353); four hot-swap PCI slots off secondary bus; all other PCI slots/devices off primary bus / NS PC9731 7VUL Super I/O / PCI 2.1 (33MHz) / I/O ready			
Bus slots	7 slots available: 4 hot-swap PCI slots¹⁰ with power and attention indicator lights (optical sensors control power to slot/ PCI adapters); <i>replace or add</i> ; separated by insulative plastic dividers / 2 PCI slots / 1 ISA slot (see below)			
Bays / available	10 bays total: 6 hot-swap disk bays / three 5.25" HH bays (1 used) / one 3.5" SL bay (diskette) / see below <i>Tower models:</i> NetBAY3 on bottom (3U pedestal for rack-based EXP10 disks, routers, UPS) / supports 2 more NetBAY3			
Ethernet controller	AMD® Am79C971 / on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake-on-LAN / RJ-45 connector / 3 LEDs			
CD-ROM / diskette	<i>CD-ROM:</i> 32X-14X ⁶ CD-ROM / multisession / IDE interface / 1.6" HH / bootable; <i>Diskette drive:</i> 3.5" 1.44 MB			
Serial / parallel / USB	<i>Serial:</i> Three 9 pin (one for Mgmt Processor) <i>Parallel:</i> One (EPP, ECP) / IEEE 1284 <i>USB:</i> Two ports			
Graphics controller	SVGA / PCI 2.1 primary bus / S3® Trio64V2 GX (on planar) / 1MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz			
Security	Power-on password / administrator password / door and top cover mechanical lock (tower only) / NetBAY3 bezel lock / selectable boot / secure mode (disables power on and reset button, keyboard, mouse) / diskette, mouse, CD-ROM disable / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode			
Systems management	Netfinity Advanced System Mgmt Processor (service processor) / on planar / provides remote console and mgmt / power on/off system / monitors temperature, disks, fans, power supply / NS LM78 hardware monitor (voltage, temp, 3 fans)			
Diagnostics	Light-Path Diagnostics Panel providing LED map to failing part (under top cover) / Information LED Panel in front			
Serviceability	Slide out shuttle drawer for Proc Card, planar, and I/O adptrs			
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server Release 5 (Windows NT version) plus five client licenses ¹⁸ , Norton AntiVirus, and APC PowerChute Plus / includes Netfinity Manager and others		128MB SDRAM 100MHz ECC DIMM (register) 01K7262 256MB SDRAM 100MHz ECC DIMM (register) 01K8043 Pentium III 500MHz/512KB Proc Upg 36L9673 Pentium III 550MHz/512KB Proc Upg 33L5112 Netfinity Upg Kit for Pentium II Xeon (2-way) 01K8049 Netfinity Four-Way Processor Upgrade Kit 28L1014 Pentium III Xeon 500MHz/512KB Proc Upg 33L5053 Pentium III Xeon 500MHz/1MB Proc Upg 33L5054 Pentium III Xeon 550MHz/512KB Proc Upg (not supported in Netfinity Four-Way Proc Upg Kit) 33L5110 Pentium III Xeon 550MHz/512KB Proc Upg* 33L5107 Pentium III Xeon 550MHz/1MB Proc Upg* 33L5108 *only supported in Four-Way Proc Upg Kit	
Upgradeable EEPROMs	BIOS (remote), diagnostics (remote), Mgmt Processor, and ServeRAID II EEPROMs on motherboard can be upgraded		Netfinity 400W Hot-Swap Redundant Power II 01K7951 Netfinity SCSI Controller Cable (to cut out) 03K9313	
Keyboard / mouse	<i>Tower:</i> IBM 101 key keyboard / IBM mouse (both black)			
Power supply	Std: one 400 watt hot-swap; Max: two 400 watt hot-swap Requires one minimum / second is redundant / tool-free install Universal (voltage sensing) / fans in each power supply / PFA			
Fans	Three hot-swap redundant fans / variable speed / under top cover / each fan unique / PFA / fan failure signals Diagnostic LED and Mgmt Processor / power supply fan			
Other features	Plug and play BIOS / I2C diagnostic bus			

<ul style="list-style-type: none"> ◇ Tower dim: H 20.9" x W 19" x D 27.6"; 85 to 120 lbs ◇ Rack dimen: H 14" x W 17.3" x D 25.6"; 85 to 120 lbs 	<ul style="list-style-type: none"> Slot 1: fullsize, 32-bit PCI 2.1, Hot-swap, sec** Slot 2: fullsize, 32-bit PCI 2.1, Hot-swap, sec** Slot 3: fullsize, 32-bit PCI 2.1, Hot-swap, sec** Slot 4: fullsize, 32-bit PCI 2.1, Hot-swap, sec** Slot 5: fullsize, 32-bit PCI 2.1, primary PCI bus Slot 6: fullsize, 32-bit PCI 2.1, primary PCI bus Slot 7: fullsize, 16-bit ISA 	<p>LIMITED WARRANTY</p> <ul style="list-style-type: none"> ◇ 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: <ul style="list-style-type: none"> • 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[®],¹⁶ ◇ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com/server) support ◇ IBM or reseller warranty/service
<p>Rack or Tower</p> <p>NetBAY3 pedestal (supports 2 more NetBAY3's)</p>	<ul style="list-style-type: none"> ◇ Black color ◇ ACPI 1.0 ◇ Orange components/ labels indicate hot-swap options ◇ Suppliers Declaration ◇ Vital Product Data ◇ Backup BIOS <p><i>Backplane A:</i> 6 SL 3.5" bays or 3 HH 3.5" bays</p> <p>Disks not supported in 5.25" bays</p>	<ul style="list-style-type: none"> ** 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 System Mgmt Processor for Netfinity Mgr for DIMM(s), processor(s), VRM(s), power supply(s), disk(s), and fans

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• = Hot Swap

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IBM Netfinity® 5500 M10 - withdrawn

IBM® Netfinity®	Tower / NetBAY3	Rack	Rack	Rack	Tower / NetBAY3	Rack
	1 x Xeon 400 open bay	1 x Xeon 400 open bay	1 x Xeon 400 open bay	1 x Xeon 450 open bay	1 x Xeon 450 open bay	1 x Xeon 450 open bay
Type - model	8661-11Y	8661-1RY	8661-2RY	8661-3RY	8661-31Y	8661-4RY
Mechanical	Tower	EIA 19" rack (8U ⁴)	EIA 19" rack (8U)	EIA 19" rack (8U)	Tower	EIA 19" rack (8U)
Rack / conversion	Rack systems supported in IBM Netfinity Rack products / kits available to convert rack to tower or tower to rack					
Disk - capacity	None standard / supports 4/9/18/36GB (7200-10000 rpm) disks					
Disk - bays	Hot-swap / no trays included (disks ship w/ trays) / 80 pin SCA-2 connectors / 1 backplanes (bank) / SAF-TE 1.0 compliant					
Avail / withdrawn date	October 1998 / February 1999			February 1999 / October 1999		
Intel® processor(s)	1 x Pentium® II Xeon™ 400/100MHz ¹			1 x Pentium II Xeon 450/100MHz		
L2 cache	512KB / full speed			1MB / full speed		
Implementation	Each processor with ECC L2 cache integrated in Single Edge Contact (SEC) cartridge in Slot 2 / in Processor Shuttle					
Processor upgrade(s)	2-way SMP / to two identical Pentium II Xeon™ or Pentium III Xeon Slot 2 CPUs / MPS 1.4					
Processor Card	Upgrade to four-way identical Pentium II Xeon or PIII Xeon Slot 2 CPUs (with Netfinity Four-Way Proc Upg Kit) Processor Card contains two Intel® Slot 2 connectors, 440GX Host Bridge, 4 DIMM sockets, 4 VRM sockets, PCI-to-PCI bridge, two I2C thermal monitors / one slot used by standard processor in SEC cartridge and other slot used by terminator					
Mem - std / max / type	128MB std / 2GB max / ECC					
Memory - sockets	4 sockets / 3 available (all have Error Checking and Correcting memory controller)					
Memory - features	SDRAM / 100MHz / four 168 pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / hardware scrubbing of ECC errors					
Memory - support	Supports registered SDRAM ECC DIMMs only (128, 256, and 512MB)					
SCSI controller / RAID	Wide Ultra SCSI PCI RAID / dual channel / RAID 0, 1, 5			All models: Maximum internal disk capacity:		
Adapter vendor / chip	IBM / ServeRAID II / on motherboard / PCI primary bus			109.2GB ² with six 18.2GB SL HS Wide Ultra SCSI disks		
Cache	4MB std/max / write-through or write-back					
Channels	Two channels (internal) / each uses Adaptec AIC-7880P					
Connectors	<i>Each channel:</i> 1 internal (16-bit) / no external connector, but 3 external knockouts for optional cable from internal connector					
SCSI cabling	16-bit cable from ServeRAID II to backplane / two drop 16-bit SCSI cable included to support devices in two open left bays					
IDE controller / cabling	Enhanced IDE controller / one drop IDE cable from IDE controller to CD-ROM					
Architecture / chip sets	Intel 440GX AGPset / PIIX4E 82371EB (EIDE (Ultra DMA/33), ISA Bridge, USB) / IBM ServeRAID II (SCSI RAID) / IBM PCI-to-PCI Bridge (27-82353); four hot-swap PCI slots off secondary bus; all other PCI slots/devices off primary bus / NS PC97317VUL Super I/O / PCI 2.1 (33MHz) / I/O ready					
Bus slots	7 slots available: 4 hot-swap PCI slots¹⁰ with power and attention indicator lights (optical sensors control power to slot) hot replace, hot upgrade, hot expansion; separated by insulative plastic dividers / 2 PCI slots / 1 ISA slot (see below)					
Bays / available	10 bays total: 6 hot-swap disk bays / three 5.25" HH bays (1 used) / one 3.5" SL bay (diskette) / see below <i>Tower models:</i> NetBAY3 on bottom (3U pedestal for rack-based EXP15 disks, routers, UPS) / supports 2 more NetBAY3					
Ethernet controller	AMD® Am79C971 / on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake-on-LAN / RJ-45 connector / 3 LEDs					
CD-ROM / diskette drive	CD-ROM: 32X-14X ⁶ CD-ROM / IDE (ATAPI) / 1.6" HH / bootable; <i>Diskette drive:</i> 3.5" 1.44 MB diskette drive / dust cover					
Serial / parallel / USB	<i>Serial:</i> Three 9 pin (one for Mgmt Processor) <i>Parallel:</i> One (EPP, ECP) / IEEE 1284 <i>USB:</i> Two ports					
Graphics controller	SVGA / PCI 2.1 primary bus / S3® Trio64V2 GX (on planar) / 1MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz					
Security	Power-on password / administrator password / door and top cover mechanical lock (tower only) / NetBAY3 bezel lock / selectable boot / secure mode (disables power on and reset button, keyboard, mouse) / diskette, mouse, CD-ROM disable / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode					
Systems management	Netfinity Advanced System Mgmt Processor (service processor) / on planar / provides remote console and mgmt			128MB SDRAM 100MHz ECC DIMM (register) 01K7262		
Diagnostics	Light-Path Diagnostics Panel providing LED map to failing part			256MB SDRAM 100MHz ECC DIMM (register) 01K8043		
Serviceability	Slide out shuttle drawer for Proc Card, planar, and I/O adptrs			512MB SDRAM 100MHz ECC DIMM (register) 01K7263		
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server Release 5 (Windows NT version) plus five client licenses ¹⁸ , Norton AntiVirus, APC PowerChute Plus / includes Netfinity® Manager and others			Pentium II Xeon 400MHz/512KB Proc Upg 01K7264		
Upgradeable EEPROMs	BIOS (remote), diagnostics (remote), Mgmt Processor, and ServeRAID II EEPROMs on motherboard can be upgraded			Pentium II Xeon 400MHz/1MB Proc Upg 10L5894		
Keyboard / mouse	<i>Tower:</i> IBM 101 key keyboard / IBM mouse (both black)			Pentium II Xeon 450MHz/512KB Proc Upg 10L5901		
Power supply	Std: one 400 watt hot-swap; Max: two 400 watt hot-swap Requires minimum of one / second is redundant / tool-free install			Pentium II Xeon 450MHz/1MB Proc Upg 10L5902		
Fans	Universal (voltage sensing) / fans in each power supply / PFA Three hot-swap redundant fans / variable speed / under top cover / each fan unique / PFA / fan failure signals Diagnostic LED and Mgmt Processor / power supply fan			Pentium III 500/512KB Proc Upg 36L9673		

<ul style="list-style-type: none"> Tower dim: H 20.9" x W 19" x D 27.6"; 88 to 123 lbs Rack dimen: H 14" x W 17.3" x D 25.6"; 88 to 123 lbs 	<ul style="list-style-type: none"> Slot 1: fullsize, 32-bit PCI 2.1, Hot-swap, sec** Slot 2: fullsize, 32-bit PCI 2.1, Hot-swap, sec** Slot 3: fullsize, 32-bit PCI 2.1, Hot-swap, sec** Slot 4: fullsize, 32-bit PCI 2.1, Hot-swap, sec** Slot 5: fullsize, 32-bit PCI 2.1, primary PCI bus Slot 6: fullsize, 32-bit PCI 2.1, primary PCI bus Slot 7: fullsize, 16-bit ISA 	<p>WARRANTY SERVICE SUPPORT</p> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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[®],¹⁶ 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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• = Hot Swap
No warranties are expressed or implied in this summary (N55M10) © IBM Corp. October 1999

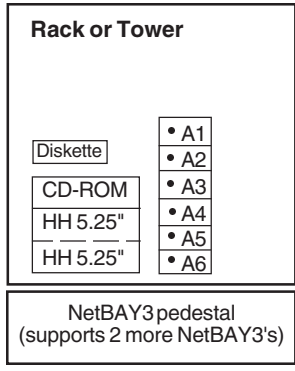
IBM Netfinity® 5500 M10 (Summer 1999) - withdrawn

IBM® Netfinity®	Tower / NetBAY3 1 x Pentium III Xeon open bay	Rack 1 x Pentium III Xeon open bay
Type - model	8661-51Y	8661-5RY
Mechanical	Tower	EIA 19" rack (8U⁴)
Rack / conversion	Rack systems supported in IBM Netfinity Rack products / kits available to convert rack to tower or tower to rack	
Disk - capacity	None standard / supports 4/9/18/36GB (7200-10000 rpm) disks	
Disk - bays	Hot-swap / no trays included (disks ship w/ trays) / 80 pin SCA-2 connectors / 1 backplanes (bank) / SAF-TE 1.0 compliant	
Avail / withdrawn date	July 1999 / April 2000	
Intel® processor(s)	1 x Pentium® III Xeon™ 550/100MHZ¹	
L2 cache	512KB / full speed	
Implementation	Each processor with ECC L2 cache integrated in Single Edge Contact (SEC) cartridge in Slot 2 / in Processor Shuttle	
Processor upgrade(s)	2-way SMP / to two identical Pentium III Xeon™ Slot 2 CPUs / MPS 1.4	
Processor Card	Upgrade to four-way identical Pentium III Xeon Slot 2 CPUs (with Netfinity Four-Way Proc Upg Kit) Processor Card contains two Intel® Slot 2 connectors, 440GX Host Bridge, 4 DIMM sockets, 4 VRM sockets, PCI-to-PCI bridge, two I2C thermal monitors / one slot used by standard processor in SEC cartridge and other slot used by terminator	
Mem - std / max / type	256MB std / 2GB max / ECC	
Memory - sockets	4 sockets / 3 available (all have Error Checking and Correcting memory controller)	
Memory - features	SDRAM / 100MHz / four 168 pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / hardware scrubbing of ECC errors	
Memory - support	Supports registered SDRAM ECC DIMMs only (128, 256, and 512MB)	
SCSI controller / RAID	Wide Ultra SCSI PCI RAID / dual channel / 40MB/sec / RAID 0, 1, 5	
Adapter vendor / chip	IBM / ServeRAID II / on motherboard / PCI primary bus	
Cache	4MB std/max / write-through or write-back	
Channels	Two channels (internal) / each uses Adaptec AIC-7880P	
Connectors	<i>Each channel:</i> 1 internal (16-bit) / no external connector, but 3 external knockouts for optional cable from internal connector	
SCSI cabling	16-bit cable from ServeRAID II to backplane / two drop 16-bit SCSI cable included to support devices in two open left bays	
IDE controller / cabling	Enhanced IDE controller / one drop IDE cable from IDE controller to CD-ROM	
Architecture / chip sets	Intel 440GX AGPset / PIIX4E 82371EB (EIDE (Ultra DMA/33), ISA Bridge, USB) / IBM ServeRAID II (SCSI RAID) / IBM PCI-to-PCI Bridge (27-82353); four hot-swap PCI slots off secondary bus; all other PCI slots/devices off primary bus / NS PC97317VUL Super I/O / PCI 2.1 (33MHz) / I/O ready	
Bus slots	7 slots available: 4 hot-swap PCI slots¹⁰ with power and attention indicator lights (optical sensors control power to slot) hot replace, hot upgrade, hot expansion; separated by insulative plastic dividers / 2 PCI slots / 1 ISA slot (see below)	
Bays / available	10 bays total: 6 hot-swap disk bays / three 5.25" HH bays (1 used) / one 3.5" SL bay (diskette) / see below <i>Tower models:</i> NetBAY3 on bottom (3U pedestal for rack-based EXP15 disks, routers, UPS) / supports 2 more NetBAY3	
Ethernet controller	AMD® Am79C971 / on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake-on-LAN / RJ-45 connector / 3 LEDs	
CD-ROM / diskette drive	CD-ROM: 32X-14X ⁶ CD-ROM / IDE (ATAPI) / 1.6" HH / bootable; <i>Diskette drive:</i> 3.5" 1.44 MB diskette drive / dust cover	
Serial / parallel / USB	<i>Serial:</i> Three 9 pin (one for Mgmt Processor) <i>Parallel:</i> One (EPP, ECP) / IEEE 1284 <i>USB:</i> Two ports	
Graphics controller	SVGA / PCI 2.1 primary bus / S3® Trio64V2 GX (on planar) / 1MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz	
Security	Power-on password / administrator password / door and top cover mechanical lock (tower only) / NetBAY3 bezel lock / selectable boot / secure mode (disables power on and reset button, keyboard, mouse) / diskette, mouse, CD-ROM disable / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode	
Systems management	Netfinity Advanced System Mgmt Processor (service processor) / on planar / provides remote console and mgmt / power on/off system / monitors temperature, disks, fans, power supply / NS LM78 hardware monitor (voltage, temp, 3 fans)	
Diagnostics	Light-Path Diagnostics Panel providing LED map to failing part (under top cover) / Information LED Panel in front	
Serviceability	Slide-out shuttle drawer for Proc Card, planar, and I/O adptrs	
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server Release 5 (Windows NT version) plus five client licenses ¹⁸ , Norton AntiVirus, APC PowerChute Plus / includes Netfinity® Manager and others	
Upgradeable EEPROMs	BIOS (remote), diagnostics (remote), Mgmt Processor, and ServeRAID II EEPROMs on motherboard can be upgraded	
Keyboard / mouse	<i>Tower:</i> IBM 101 key keyboard / IBM mouse (both black)	
Power supply	Std: one 400 watt hot-swap; Max: two 400 watt hot-swap Requires minimum of one / second is redundant / tool-free install	
Fans	Universal (voltage sensing) / fans in each power supply / PFA Three hot-swap redundant fans / variable speed / under top cover / each fan unique / PFA / fan failure signals Diagnostic LED and Mgmt Processor / power supply fan	

All models: Maximum internal disk capacity:
109.2GB² with six 18.2GB SL HS Wide Ultra SCSI disks

128MB SDRAM 100MHz ECC DIMM (register)	01K7262
256MB SDRAM 100MHz ECC DIMM (register)	01K8043
512MB SDRAM 100MHz ECC DIMM (register)	01K7263
Netfinity Four-Way Processor Upgrade Kit	28L1014
Pentium III Xeon 500MHz/512KB Proc Upg	33L5053
Pentium III Xeon 500MHz/1MB Proc Upg	33L5054
Pentium III Xeon 550MHz/512KB Proc Upg (not supported in Netfinity Four-Way Proc Upg Kit)	33L5110
Pentium III Xeon 550MHz/512KB Proc Upg*	33L5107
Pentium III Xeon 550MHz/1MB Proc Upg*	33L5108
*only supported in Four-Way Proc Upg Kit	
Netfinity 400W Hot-Swap Redundant Power II	01K7951
Netfinity SCSI Controller Cable (to cut out)	03K9313
Netfinity 5500 Tower to Rack Conversion Kit	01K8020

- ⇨ Tower dim: H 20.9" x W 19" x D 27.6"; 88 to 123 lbs
- ⇨ Rack dimen: H 14" x W 17.3" x D 25.6"; 88 to 123 lbs



- ⇨ Black color
- ⇨ ACPI 1.0
- ⇨ Orange components/labels indicate hot-swap options
- ⇨ 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

- Slot 1: fullsize, 32-bit PCI 2.1, Hot-swap, sec**
- Slot 2: fullsize, 32-bit PCI 2.1, Hot-swap, sec**
- Slot 3: fullsize, 32-bit PCI 2.1, Hot-swap, sec**
- Slot 4: fullsize, 32-bit PCI 2.1, Hot-swap, sec**
- Slot 5: fullsize, 32-bit PCI 2.1, primary PCI bus
- Slot 6: fullsize, 32-bit PCI 2.1, primary PCI bus
- Slot 7: fullsize, 16-bit ISA
- ** 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 System Mgmt Processor for Netfinity Mgr for DIMM(s), processor(s), VRM(s), power supply(s), disk(s), and fans

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 response⁷ time
 - 24 hr / 7 day coverage, 2 hour average response⁷ time (in eligible locations)
- ⇨ **90-day IBM Start Up Support**
- ⇨ **IBM SystemXtra[®],¹⁶**
- ⇨ **24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com) support**
- ⇨ **IBM or reseller warranty/service**

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• = Hot Swap

No warranties are expressed or implied in this summary
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IBM Netfinity® 5500 M20 - withdrawn

	Tower / NetBAY3	Rack	Tower / NetBAY3	Rack																														
IBM® Netfinity®	1 x Pentium III Xeon open bay	1 x Pentium III Xeon 500 open bay	1 x Pentium III Xeon open bay	1 x Pentium III Xeon 500 open bay																														
Type - model	8662-31Y	8662-3RY	8662-41Y	8662-4RY																														
Mechanical	Tower	EIA 19" rack (8U⁴)	Tower	EIA 19" rack (8U)																														
Rack / conversion	Rack systems supported in IBM Netfinity Rack products / kits available to convert rack to tower or tower to rack																																	
Disk - capacity	None standard / supports 4/9/18/36GB (7200-10000 rpm) disks																																	
Disk - bays	Hot-swap / no trays included (disks ship w/ trays) / 80 pin SCA-2 connectors / 1 backplanes (bank) / SAF-TE 1.0 compliant																																	
Avail / withdrawn date	March 1999 / April 2000		April 1999 / April 2000																															
Intel® processor(s)	1 x Pentium® III Xeon™ 500/100MHz¹		1 x Pentium III Xeon 500/100MHz																															
L2 cache	512KB / full speed		1MB / full speed																															
Implementation	Each processor with ECC L2 cache integrated in Single Edge Contact (SEC) cartridge in Slot 2 / in Processor Shuttle																																	
Processor upgrade(s)	4-way SMP / to four identical Pentium III Xeon™ Slot 2 (SC330) CPUs / MPS 1.4 / 82093AA IOAPIC on planar																																	
Processor Card	Processor Card contains 4 Intel Slot 2 connectors, 2 Reliance chips, 1 memory card connector, 6 VRM sockets, I2C interface, Analog Devices® ADM9240 (monitors 4 VRMs and Fan 4)																																	
Mem - std / max / type	256MB std / 4GB max / ECC (Error Checking and Correcting memory controller and DIMMs)																																	
Memory - sockets	One memory card std and max / 8 sockets / 7 available / 4 sockets controlled by each Reliance chip																																	
Memory - features	SDRAM / 100MHz / eight 168-pin gold-plated DIMM 3.3 volt sockets / PC100-compliant																																	
Memory - support	Supports registered SDRAM ECC DIMMs only (128, 256, and 512MB)																																	
SCSI controller / RAID	Wide Ultra SCSI PCI RAID / dual channel / RAID 0, 1, 5		All models: Maximum internal disk capacity:																															
Adapter vendor / chip	IBM / ServeRAID II / on motherboard / 40MB/sec max		109.2GB ² with six 18.2GB SL HS Wide Ultra SCSI disks																															
Cache	4MB std/max / write-through or write-back / PCI primary bus																																	
Channels	Two channels (via two connectors on planar) / each uses Adaptec AIC-7880P																																	
Connectors and cabling	One internal connector with 16-bit cable to backplane / one internal connector with 16-bit cable to external .8mm VHDCI connector / two drop 16-bit SCSI cable included to support devices in two open left bays (if disconnect an existing cable)																																	
IDE controller / cabling	Enhanced IDE controller / one drop IDE cable from one IDE connector to CD-ROM																																	
Architecture / chip sets	2 x Reliance Champion 2.0LE chip sets (CNB20LE North Bridge, PCI and memory controller, each chip supports 4 DIMMs) / PIIX4E 82371EB (EIDE, ISA Bridge, USB) / IBM ServeRAID II (SCSI RAID) / two primary PCI 2.1 33MHz 32-bit buses / NS PC97317VUL Super I/O / PCI 2.1 (33MHz) / I/O ready																																	
Bus slots	6 slots available: 4 hot-swap PCI slots¹⁰ with power and attention indicator lights (optical sensors control power to slot) hot replace, hot upgrade, hot expansion; separated by insulative plastic dividers / 1 PCI slot / 1 ISA slot (see below)																																	
Bays / available	10 bays total: 6 hot-swap disk bays / three 5.25" HH bays (1 used) / one 3.5" SL bay (diskette) / see below <i>Tower models:</i> NetBAY3 on bottom (3U pedestal for rack-based EXP15 disks, routers, UPS) / supports 2 more NetBAY3																																	
Ethernet controller	AMD® Am79C971 / on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake-on-LAN / RJ-45 connector / 3 LEDs																																	
CD-ROM / diskette drive	<i>CD-ROM:</i> 32X-14X ⁶ CD-ROM / IDE (ATAPI) / 1.6" HH / bootable; <i>Diskette drive:</i> 3.5" 1.44 MB diskette drive / dust cover																																	
Serial / parallel / USB	<i>Serial:</i> Three 9 pin (one for Mgmt Processor) <i>Parallel:</i> One (EPP, ECP) / IEEE 1284 <i>USB:</i> Two ports																																	
Graphics controller	SVGA / PCI 2.1 primary bus / S3® Trio64V2 GX (on planar) / 1MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz																																	
Security	Power-on password / administrator password / door and top cover mechanical lock (tower only) / NetBAY3 bezel lock / selectable boot / secure mode (disables keyboard and mouse) / diskette, mouse, CD-ROM disable / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode																																	
Systems management	Netfinity Advanced System Mgmt Processor (service processor) / on planar / provides remote console and mgmt / power on/off system / monitors temperature, disks, fans, power supply / NS LM78 hardware monitor (voltage, temp, 3 fans)																																	
Diagnostics	Light-Path Diagnostics Panel providing LED map to failing part (under top cover) / Information LED Panel in front																																	
Serviceability	Slide out shuttle drawer for Proc Card, planar, and I/O adptrs																																	
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server Release 5 (Windows NT version) plus five client licenses ¹⁸ , Norton AntiVirus, APC PowerChute Plus / includes Netfinity® Manager and others		<table border="0"> <tr><td>128MB SDRAM 100MHz ECC DIMM (register)</td><td>01K7262</td></tr> <tr><td>256MB SDRAM 100MHz ECC DIMM (register)</td><td>01K8043</td></tr> <tr><td>512MB SDRAM 100MHz ECC DIMM (register)</td><td>01K7263</td></tr> <tr><td>Netfinity 500W Hot-Swap Redun. Power Sup</td><td>01K7953</td></tr> <tr><td>Pentium III Xeon 500MHz/512KB Proc Upg</td><td>33L5053</td></tr> <tr><td>Pentium III Xeon 500MHz/1MB Proc Upg</td><td>33L5054</td></tr> <tr><td>Pentium III Xeon 550MHz/512KB Proc Upg</td><td>33L5107</td></tr> <tr><td>Pentium III Xeon 550MHz/1MB Proc Upg</td><td>33L5108</td></tr> <tr><td>Netfinity 5500 Tower to Rack Conversion Kit</td><td>01K8020</td></tr> <tr><td>Netfinity 5500 Rack to Tower Conversion Kit</td><td>01K8021</td></tr> <tr><td>IBM 10/100 Netfinity Fault Tolerant Adapter</td><td>08L3341</td></tr> <tr><td>IBM Netfinity EXP15 Rack Storage Enclosure</td><td>35202RU</td></tr> <tr><td>IBM Netfinity NetBAY3</td><td>10L6912</td></tr> <tr><td>IBM Netfinity NetBAY3 Caster Set</td><td>10L6913</td></tr> <tr><td>IBM Netfinity Rack</td><td>9306900</td></tr> </table>		128MB SDRAM 100MHz ECC DIMM (register)	01K7262	256MB SDRAM 100MHz ECC DIMM (register)	01K8043	512MB SDRAM 100MHz ECC DIMM (register)	01K7263	Netfinity 500W Hot-Swap Redun. Power Sup	01K7953	Pentium III Xeon 500MHz/512KB Proc Upg	33L5053	Pentium III Xeon 500MHz/1MB Proc Upg	33L5054	Pentium III Xeon 550MHz/512KB Proc Upg	33L5107	Pentium III Xeon 550MHz/1MB Proc Upg	33L5108	Netfinity 5500 Tower to Rack Conversion Kit	01K8020	Netfinity 5500 Rack to Tower Conversion Kit	01K8021	IBM 10/100 Netfinity Fault Tolerant Adapter	08L3341	IBM Netfinity EXP15 Rack Storage Enclosure	35202RU	IBM Netfinity NetBAY3	10L6912	IBM Netfinity NetBAY3 Caster Set	10L6913	IBM Netfinity Rack	9306900
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Upgradeable EEPROMs	BIOS (remote), diagnostics, Mgmt Processor, and ServeRAID II EEPROMs on motherboard can be upgraded																																	
Keyboard / mouse	<i>Tower:</i> IBM 101 key keyboard / IBM mouse (both black)																																	
Power supply	Std: one 500 watt hot-swap; Max: two 500 watt hot-swap Requires one minimum / second is redundant / tool-free install Universal (voltage sensing) / fans in each power supply / PFA																																	
Fans	Four hot-swap redundant fans / variable speed / under top cover / each fan unique / PFA / fan failure signals Diagnostic LED and Mgmt Processor / power supply fan																																	

<ul style="list-style-type: none"> ◇ Tower dim: H 20.9" x W 19" x D 27.6"; 88 to 123 lbs ◇ Rack dimen: H 14" x W 17.3" x D 25.6"; 88 to 123 lbs 	<ul style="list-style-type: none"> ◇ Slot 1: fullsize, 32-bit PCI 2.1, Hot-swap, primary ◇ Slot 2: fullsize, 32-bit PCI 2.1, Hot-swap, primary ◇ Slot 3: fullsize, 32-bit PCI 2.1, Hot-swap, primary ◇ Slot 4: fullsize, 32-bit PCI 2.1, Hot-swap, primary ◇ Slot 5: halfsize, 32-bit PCI 2.1, primary** PCI bus ◇ Slot 6: fullsize, 16-bit ISA <p>** additional primary PCI bus</p> <ul style="list-style-type: none"> ◇ 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 System Mgmt Processor for Netfinity Mgr for DIMM(s), processor(s), VRM(s), power supply(s), disk(s), and fans 	<p>LIMITED WARRANTY</p> <ul style="list-style-type: none"> ↔ 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: <ul style="list-style-type: none"> • 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[®],¹⁶ ↔ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com) support ↔ IBM or reseller warranty/service
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Rack or Tower

Diskette	• A1
CD-ROM	• A2
HH 5.25"	• A3
HH 5.25"	• A4
HH 5.25"	• A5
HH 5.25"	• A6

Disks not supported in 5.25" bays

NetBAY3 pedestal (supports 2 more NetBAY3's)

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• = Hot Swap

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IBM Netfinity® 5500 M20 (Summer 1999) - withdrawn

	Tower / NetBAY3	Rack	Tower / NetBAY3	Rack
IBM® Netfinity®	1 x Pentium III Xeon open bay	1 x Pentium III Xeon 550 open bay	1 x Pentium III Xeon open bay	1 x Pentium III Xeon 550 open bay
Type - model	8662-51Y	8662-5RY	8662-61Y	8662-6RY
Mechanical	Tower	EIA 19" rack (8U ⁴)	Tower	EIA 19" rack (8U)
Rack / conversion	Rack systems supported in IBM Netfinity Rack products / kits available to convert rack to tower or tower to rack			
Disk - capacity	None standard / supports 9/18/36GB (7200-10000 rpm) disks			
Disk - bays	Hot-swap / no trays included (disks ship w/ trays) / 80 pin SCA-2 connectors / 1 backplanes (bank) / SAF-TE 1.0 compliant			
Avail / withdrawn date	August 1999 / July 2000			
Intel® processor(s)	1 x Pentium® III Xeon™ 550/100MHZ ¹		1 x Pentium III Xeon 550/100MHZ	
L2 cache	512KB / full speed		1MB / full speed	
Implementation	Each processor with ECC L2 cache integrated in Single Edge Contact (SEC) cartridge in Slot 2 / in Processor Shuttle			
Processor upgrade(s)	4-way SMP / to four identical Pentium III Xeon™ Slot 2 (SC330) CPUs / MPS 1.4 / 82093AA IOAPIC on planar			
Processor Card	Processor Card contains 4 Intel Slot 2 connectors, 2 Reliance chips, 1 memory card connector, 6 VRM sockets, I2C interface, Analog Devices® ADM9240 (monitors 4 VRMs and Fan 4)			
Mem - std / max / type	256MB std / 4GB max / ECC (Error Checking and Correcting memory controller and DIMMs)			
Memory - sockets	One memory card std and max / 8 sockets / 7 available / 4 sockets controlled by each Reliance chip			
Memory - features	SDRAM / 100MHz / eight 168-pin gold-plated DIMM 3.3 volt sockets / PC100-compliant			
Memory - support	Supports registered SDRAM ECC DIMMs only (128, 256, and 512MB)			
SCSI controller / RAID	Wide Ultra SCSI PCI RAID / dual channel / RAID 0, 1, 5		All models: Maximum internal disk capacity: 109.2GB ² with six 18.2GB SL HS Wide Ultra SCSI disks	
Adapter vendor / chip	IBM / ServeRAID II / on motherboard / 40MB/sec max			
Cache	4MB std/max / write-through or write-back / PCI primary bus			
Channels	Two channels (via two connectors on planar) / each uses Adaptec AIC-7880P			
Connectors and cabling	One internal connector with 16-bit cable to backplane / one internal connector with 16-bit cable to external .8mm VHDCI connector / two drop 16-bit SCSI cable included to support devices in two open left bays (if disconnect an existing cable)			
IDE controller / cabling	Enhanced IDE controller / one drop IDE cable from one IDE connector to CD-ROM			
Architecture / chip sets	2 x Reliance Champion 2.0LE chip sets (CNB20LE North Bridge, PCI and memory controller, each chip supports 4 DIMMs) / PIIX4E 82371EB (EIDE, ISA Bridge, USB) / IBM ServeRAID II (SCSI RAID) / two primary PCI 2.1 33MHz 32-bit buses / NS PC97317VUL Super I/O / PCI 2.1 (33MHz) / I ₂ O ready			
Bus slots	6 slots available: 4 hot-swap PCI slots ¹⁰ with power and attention indicator lights (optical sensors control power to slot) Active PCI via hot replace, hot upgrade, hot expansion / 1 PCI slot / 1 ISA slot (see below)			
Bays / available	10 bays total: 6 hot-swap disk bays / three 5.25" HH bays (1 used) / one 3.5" SL bay (diskette) / see below Tower models: NetBAY3 on bottom (3U pedestal for rack-based EXP disks, routers, UPS) / supports 2 more NetBAY3			
Ethernet controller	AMD® Am79C971 / on planar / 10BaseT, 100BaseTX / full duplex / PCI bus / Wake-on-LAN / RJ-45 connector / 3 LEDs			
CD-ROM / diskette drv	CD-ROM: 40X-17X ⁶ CD-ROM / IDE (ATAPI) / 1.6" HH / bootable; Diskette drive: 3.5" 1.44 MB diskette drive / dust cover			
Serial / parallel / USB	Serial: Three 9 pin (one for Mgmt Processor) Parallel: One (EPP, ECP) / IEEE 1284 USB: Two ports			
Graphics controller	SVGA / PCI 2.1 primary bus / S3® Trio64V2 GX (on planar) / 1MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz			
Security	Power-on password / administrator password / door and top cover mechanical lock (tower only) / NetBAY3 bezel lock / selectable boot / secure mode (disables keyboard and mouse) / diskette, mouse, CD-ROM disable / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode			
Systems management	Netfinity Advanced System Mgmt Processor (service processor) / on planar / provides remote console and mgmt / power on/off system / monitors temperature, disks, fans, power supply / NS LM78 hardware monitor (voltage, temp, 3 fans)			
Diagnostics	Light-Path Diagnostics Panel providing LED map to failing part (under top cover) / Information LED Panel in front			
Serviceability	Slide out shuttle drawer for Proc Card, planar, and I/O adptrs			
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server Release 5 (Windows NT version) plus five client licenses ¹⁸ , Norton AntiVirus, APC PowerChute Plus / includes Netfinity® Manager and others		128MB SDRAM 100MHz ECC DIMM (register) 01K7262 256MB SDRAM 100MHz ECC DIMM (register) 01K8043 512MB SDRAM 100MHz ECC DIMM (register) 01K7263 Netfinity 500W Hot-Swap Redun. Power Sup 01K7953 Pentium III Xeon 550MHz/512KB Proc Upg 33L5107 Pentium III Xeon 550MHz/1MB Proc Upg 33L5108 Netfinity 5500 Tower to Rack Conversion Kit 01K8020 Netfinity 5500 Rack to Tower Conversion Kit 01K8021 IBM 10/100 Netfinity Fault Tolerant Adapter 08L3341 IBM Netfinity EXP15 Rack Storage Enclosure 35202RU IBM Netfinity NetBAY3 10L6912 IBM Netfinity NetBAY3 Caster Set 10L6913 IBM Netfinity Rack 9306900	
Upgradeable EEPROMs	BIOS (remote), diagnostics, Mgmt Processor, and ServeRAID II EEPROMs on motherboard can be upgraded Tower: IBM 101 key keyboard / IBM mouse (both black) Std: one 500 watt hot-swap; Max: two 500 watt hot-swap			
Keyboard / mouse	Requires one minimum / second is redundant / tool-free install Universal (voltage sensing) / fans in each power supply / PFA			
Power supply	Four hot-swap redundant fans / variable speed / under top cover / each fan unique / PFA / fan failure signals Diagnostic LED and Mgmt Processor / power supply fan			
Fans				

<p> ◇ Tower dim: H 20.9" x W 19" x D 27.6"; 88 to 123 lbs ◇ Rack dimen: H 14" x W 17.3" x D 25.6"; 88 to 123 lbs </p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>Rack or Tower</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">Diskette</td> <td style="border: 1px solid black; padding: 2px;">• A1</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">CD-ROM</td> <td style="border: 1px solid black; padding: 2px;">• A2</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">HH 5.25"</td> <td style="border: 1px solid black; padding: 2px;">• A3</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">HH 5.25"</td> <td style="border: 1px solid black; padding: 2px;">• A4</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">HH 5.25"</td> <td style="border: 1px solid black; padding: 2px;">• A5</td> </tr> <tr> <td style="border: 1px solid black; padding: 2px;">HH 5.25"</td> <td style="border: 1px solid black; padding: 2px;">• A6</td> </tr> </table> <p style="text-align: center; margin-top: 5px;">NetBAY3 pedestal (supports 2 more NetBAY3's)</p> </div> <p> ◇ Black color ◇ ACPI 1.0 ◇ Orange components/labels indicate hot-swap options ◇ 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 </p>	Diskette	• A1	CD-ROM	• A2	HH 5.25"	• A3	HH 5.25"	• A4	HH 5.25"	• A5	HH 5.25"	• A6	<p> Slot 1: fullsize, 32-bit PCI 2.1, Hot-swap, primary Slot 2: fullsize, 32-bit PCI 2.1, Hot-swap, primary Slot 3: fullsize, 32-bit PCI 2.1, Hot-swap, primary Slot 4: fullsize, 32-bit PCI 2.1, Hot-swap, primary Slot 5: halfsize, 32-bit PCI 2.1, primary** PCI bus Slot 6: fullsize, 16-bit ISA ** additional primary PCI bus </p> <p> ◇ 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 System Mgmt Processor for Netfinity Mgr for DIMM(s), processor(s), VRM(s), power supply(s), disk(s), and fans </p>	<p style="text-align: center;">LIMITED WARRANTY</p> <p> ↪ 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 average response⁷ time (in eligible locations) ↪ 90-day IBM Start Up Support ↪ IBM SystemXtra[®],¹⁶ ↪ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com) support ↪ IBM or reseller warranty/service </p>
Diskette	• A1													
CD-ROM	• A2													
HH 5.25"	• A3													
HH 5.25"	• A4													
HH 5.25"	• A5													
HH 5.25"	• A6													

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IBM Netfinity® 5600 - withdrawn

	Tower	Rack	Tower	Rack	Tower	Rack
IBM® Netfinity®:	1 x Pent III 533EB Open bay	1 x Pent III 533EB Open bay	1 x Pent III 600EB Open bay	1 x Pent II 600EB Open bay	1 x Pent III 667 Open bay	1 x Pent II 667 Open bay
Type - model	8664-11Y Tower	8664-1RY EIA 19" Rack (5U) ⁴	8664-21Y Tower	8664-2RY EIA 19" Rack (5U)	8664-31Y Tower	8664-3RY EIA 19" Rack (5U)
Mechanical	None standard / supports 7200-10000 rpm disks / 1 backplane / SAF-TE 1.0-compliant					
Disk - capacity	Six hot-swap / no trays included (disks ship w/ trays) / 80-pin SCA-2 connectors / common tray with 8500R and EXP200					
Disk - bays	Rack systems supported in IBM NetfinityRacks / kit available to convert tower to rack (no rack to tower conversion)					
Rack support	November 1999 / December 2000					
Avail / withdrawn date						
Intel® processor(s)	1 x Pentium® III 533EB ¹² /133MHz ¹		1 x Pentium III 600EB/133MHz		1 x Pentium III 667/133 MHz	
L2 cache	256KB std / 256KB max / ECC / at processor speed / processor and L2 cache in Single Edge Cartridge (SECC2)					
Implementation	Processor Complex contains two Intel Slot 1 connectors for SECC2 cartridges (open Slot 1 used by terminator), two VRM sockets (one used), four DIMM sockets, and Reliance CNB3.0LE North Bridge					
SMP support	2-way SMP via second identical processor / upgrade via SECC2 into second Slot 1 CPU connector					
Processor upgrades	Support for second identical processor up to 933/133MHz					
Memory - std / max	128MB std / 4GB max				256MB std / 4GB max	
Memory - sockets	4 sockets / 3 available / ECC / (all have Error Checking and Correcting (ECC) memory controller) / non-interleaved					
Memory - features	SDRAM / 133MHz / four 168-pin gold-plated DIMM 3.3 volt sockets / PC133-compliant					
Memory - support	Supports registered SDRAM ECC DIMMs only (128, 256, 512MB, and 1GB)					
SCSI disk controller	Adaptec® AHA-7897 / dual channel Wide Ultra2 SCSI controller (LVD 80MB/sec) / on planar / 64-bit PCI / two channels (one internal/one external) / supports IBM ServeRAID adapters (no hardware RAID standard)					
SCSI channels	SCSI Channel A: 16-bit 68-pin LVD cable from controller to backplane SCSI Channel B: 16-bit 68-pin interface (hardwired) to external SCSI port (.8mm VHDCI connector)					
Extra SCSI cable	Includes a terminated 2-drop 16-bit Ultra SCSI non-LVD cable for optional SCSI devices in open 5.25" bays					
IDE controller / cable	Single Primary IDE (ROSB4) South Bridge / one connector on planar / one 1 drop IDE cable (CD-ROM)				All models: Max int disk capacity: 218.4GB ² with six 36.4GB SL disks	
Bus slots (see below)	PCI 2.1 (33MHz) / dual peer PCI / Active PCI™ with hot-swap PCI slots (hot replace, hot upgrade, hot expansion) / 64-bit PCI (three hot-swap PCI slots, SCSI controller) / 32-bit PCI (two PCI slots, graphics, ethernet, South Bridge)					
Chip set	Reliance Champion 3.0LE chip set / North Bridge (CNB3.0LE) / South Bridge (ROSB4) for IDE, USB, ISA bus for Service Processor and Super I/O National Semiconductor® PC97317VUL (diskette, parallel, serial, keyboard, mouse) / I/O ready (See diagram below): 10 bays / three 5.25" HH bays (1 used by CD-ROM) / one diskette bay / six hot-swap bays					
Bays / available	Operator Information Panel (in front) / includes Info Light, System Error Light, Processor Activity, Ethernet Speed, others					
Status LEDs						
10/100 ethernet	AMD® Am79C975 / on planar / 10BaseT, 100BaseTX / full duplex / RJ-45 connector / 3 front LEDs					
CD-ROM / diskette	40X-17X ⁶ CD-ROM / multisession / IDE interface / 1.6" HH / bootable; Diskette: 3.5" 1.44MB diskette drive / dust cover					
Serial / parallel / USB	Serial: Three 9-pin (one for Mgmt Processor) Parallel: One (EPP, ECP) / IEEE 1284 USB: Two ports					
Graphics controller	SVGA / PCI 2.1 bus / S3® Trio64 3D (on planar) / 4MB SGRAM std/max / up to 1280x1024 at 64K colors at 85Hz / DDC2B					
Security	Power-on password / administrator password / system owner's name / hinged and lockable front door to cover disk bays, power button, and reset button (tower only) / unattended boot / selectable boot / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode					
Systems management	Netfinity Advanced System Mgmt Processor / on planar / provides remote console and mgmt / allows diagnostic, reset, POST, and auto recovery functions / monitors temperature, fans, and power supplies					
Diagnostics	Diagnostics LED Panel (under cover) / Light-Path Diagnostics™ provides an LED map to failing component / system board error LEDs / diagnostics in ROM by pressing F2 at startup for PC-Doctor					
Software	ServerGuide™, Lotus® Domino® Application Server Release 5 (Windows NT version) plus five client licenses ¹⁸ , AntiVirus software, and APC PowerChute Plus / includes Netfinity Manager, others		Pentium III 533EBMHz/256KB Proc Upg		10K2168	
Keyboard / mouse	Tower only: IBM 101-key keyboard / IBM mouse (both black)		Pentium III 600EBMHz/256KB Proc Upg		00N7948	
Power supply	Std: two 250 watt hot-swap; Max: three 250 watt hot-swap / redundant with two power supplies / worldwide / voltage-sensing / auto-restart / fans in each power supply		Pentium III 667MHz/256KB Proc Upg		00N7949	
Fans	Three redundant, hot-swap fans / easy removal / PFA / fan failure signals Diagnostic LED and Mgmt Processor / power supply fans		Pentium III 733/133MHz/256KB Proc Upg		00N7943	
Other features	Plug and play BIOS / four I2C diagnostic buses		Pentium III 800EB/133MHz/256KB Proc Upg		10K2338	
			Pentium III 866/133MHz/256KB Proc Upg		19K4630	
			Pentium III 933/133MHz/256KB Proc Upg		19K4631	
			128MB SDRAM ECC DIMM 133MHz (registered)		33L3058	
			256MB SDRAM ECC DIMM 133MHz (registered)		33L3060	
			512MB SDRAM ECC DIMM 133MHz (registered)		33L3062	
			1GB SDRAM ECC DIMM 133MHz (registered)		33L3064	
			Netfinity 5Ux24D Tower-to-Rack Kit		37L6858	
			Netfinity 250W Hot-Swap Redundant Pwr Supply		33L3760	

<p>Slot 1: fullsize, 32-bit PCI 2.1 (5v), Bus A Slot 2: fullsize, 32-bit PCI 2.1 (5v), Bus A Slot 3: fullsize, 64-bit PCI 2.1 (5v), Hot-swap, Bus B Slot 4: fullsize, 64-bit PCI 2.1 (5v), Hot-swap, Bus B Slot 5: fullsize, 64-bit PCI 2.1 (5v), Hot-swap, Bus B</p> <p>Bay ① 3.5", SL 1", access, diskette Bay ② 3.5", SL 1", access, hot swap Bay ③ 3.5", SL 1", access, hot swap Bay ④ 3.5", SL 1", access, hot swap Bay ⑤ 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 ⑧ 5.25", HH 1.6" access, CD-ROM Bay ⑨ 5.25", HH 1.6" access, open Bay ⑩ 5.25", HH 1.6" access, open</p> <p>Bays 2 through 7 support 6 SL disks or 3 HH hot-swap disks via SCA-2 connectors</p> <p>Rack or Tower (tower shown above)</p>	<ul style="list-style-type: none"> ➤ Removable, easy release left/top side panel ➤ Quick release adapter slots (no screws) ➤ New rail system enables devices (CD-ROM, diskette, tape drives) to snap in and out without screws ➤ Configuration/Setup Utility invoked by pressing F1 at startup ➤ SCSISelect near startup by pressing CTRL+A ➤ Several hardcopy publications ➤ Predictive failure analysis on disk options, memory, processors, VRMs, power supplies, and fans in conjunction with Netfinity Manager can alert the system administrator of an imminent component failure ➤ Tower: H 16.8" x W 8.6" x D 26.0" ➤ Rack: H 8.6" x W 16.8" x D 24.8" ➤ 55.7 to 82.7 pounds ➤ Stealth black color ➤ All non-hot-swaps bays use rails (no screws) for devices 	<p>LIMITED WARRANTY</p> <ul style="list-style-type: none"> ➤ 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: <ul style="list-style-type: none"> • 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^{®16} ➤ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com) support ➤ IBM or reseller warranty/service
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IBM Netfinity® 5600 (Spring 2000) - withdrawn

IBM® Netfinity®: Type-model	Qty x Processor	Memory	Disk	SCSI controller	Mechanical	Slots x bays	Hot-swap disk bays	Ethernet	Available date
8664-41Y	1 x Pentium® III 733/133	256MB	None	2 x Wide Ultra2	Tower	5 slots x 10 bays	6 hot-swap	10/100 ethernet	May 2000
8664-4RY	1 x Pentium III 733/133	256MB	None	2 x Wide Ultra2	5U rack	5 slots x 10 bays	6 hot-swap	10/100 ethernet	May 2000
8664-51Y	1 x Pentium III 800/133	256MB	None	2 x Wide Ultra2	Tower	5 slots x 10 bays	6 hot-swap	10/100 ethernet	May 2000
8664-5RY	1 x Pentium III 800/133	256MB	None	2 x Wide Ultra2	5U rack	5 slots x 10 bays	6 hot-swap	10/100 ethernet	May 2000
8664-61Y	1 x Pentium III 866/133	256MB	None	2 x Wide Ultra2	Tower	5 slots x 10 bays	6 hot-swap	10/100 ethernet	June 2000
8664-6RY	1 x Pentium III 866/133	256MB	None	2 x Wide Ultra2	5U rack	5 slots x 10 bays	6 hot-swap	10/100 ethernet	June 2000
8664-71Y	1 x Pentium III 933/133	256MB	None	2 x Wide Ultra2	Tower	5 slots x 10 bays	6 hot-swap	10/100 ethernet	June 2000
8664-7RY	1 x Pentium III 933/133	256MB	None	2 x Wide Ultra2	5U rack	5 slots x 10 bays	6 hot-swap	10/100 ethernet	June 2000

Intel® processor(s) **1 x Pentium® III 733, 800EB, 866, or 933MHz¹ with 133MHz Front Side Bus**
 L2 cache **256KB** std and max / ECC / at processor speed / processor and L2 cache in Single Edge Cartridge (SECC2)
 Implementation **Processor Complex** contains two Intel Slot 1 connectors for SECC2 cartridges (open Slot 1 used by terminator), two VRM sockets (one used), four DIMM sockets, and Reliance CNB3.0LE North Bridge
 SMP support **2-way SMP** via second identical processor / upgrade via SECC2 into second Slot 1 CPU connector

Memory - std / max **256MB std / 4GB max**
 Memory - sockets **4 sockets / 3 available / ECC** / (all have Error Checking and Correcting (ECC) memory controller) / non-interleaved
 Memory - features **SDRAM / 133MHz** / four 168-pin gold-plated DIMM 3.3 volt sockets / PC133-compliant
 Memory - support Supports registered SDRAM ECC DIMMs only (128, 256, 512MB, and 1GB)

SCSI disk controller **Adaptec® AHA-7897 / dual channel Wide Ultra2 SCSI controller (LVD 80MB/sec)** / on planar / 64-bit PCI / two channels (one internal/one external) / supports IBM ServeRAID adapters (no hardware RAID standard)
 SCSI channels **SCSI Channel A:** 16-bit 68-pin LVD cable from controller to backplane
SCSI Channel B: 16-bit 68-pin interface (hardwired) to external SCSI port (.8mm VHDCI connector)
 Extra SCSI cable Includes a terminated 2-drop 16-bit Ultra SCSI non-LVD cable for optional SCSI devices in open 5.25" bays
 IDE controller / cable Single Primary IDE (ROSB4) South Bridge / one connector on planar / one 1 drop IDE cable (CD-ROM)
 Disk - capacity **None standard** / supports 7200-10000 rpm disks / 1 backplane
 Disk - bays Six hot-swap / no trays included (disks ship w/ trays) / 80-pin SCA-2 connectors / common tray with 8500R and EXP200

All models: Max int disk capacity: 218.4GB² with six 36.4GB SL disks

Mechanical **Tower or EIA 19" Rack (5U⁴)**
 Rack support Rack systems supported in IBM NetfinityRacks / kit available to convert tower to rack (no rack to tower conversion)
 Bus slots (see below) PCI 2.1 (33MHz) / dual peer PCI / **Active PCI™ with hot-swap PCI slots** (hot replace, hot upgrade, hot expansion) / 64-bit PCI (three hot-swap PCI slots, SCSI controller) / 32-bit PCI (two PCI slots, graphics, ethernet, South Bridge)
 Chip set **ServerWorks® ServerSet 3.0LE chip set** / North Bridge (CNB3.0LE) / South Bridge (ROSB4) for IDE, USB, ISA bus for Service Processor and Super I/O National Semiconductor® PC97317VUL (diskette, parallel, serial, keyboard, mouse)
 Bays / available (See diagram below): 10 bays / three 5.25" HH bays (1 used by CD-ROM) / one diskette bay / six hot-swap bays

10/100 ethernet AMD® Am79C975 / on planar / **10BaseT, 100BaseTX / full duplex** / RJ-45 connector / 3 front LEDs
 CD-ROM / diskette 40X-17X⁶ CD-ROM / multisection / IDE interface / 1.6" HH / bootable; *Diskette:* 3.5" 1.44MB diskette drive / dust cover
 Serial / parallel / USB *Serial:* Three 9-pin (one for Mgmt Processor) *Parallel:* One (EPP, ECP) / IEEE 1284 *USB:* Two ports
 Graphics controller SVGA / PCI 2.1 bus / S3® Trio64 3D (on planar) / 4MB SGRAM std/max / up to 1280x1024 at 64K colors at 85Hz / DDC2B

Security Power-on password / administrator password / system owner's name / hinged and lockable front door to cover disk bays, power button, and reset button (tower only) / unattended boot / selectable boot / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode

Systems mgmt **Netfinity Advanced System Mgmt Processor** / on planar / provides remote console and mgmt / allows diagnostic, reset, POST, and auto recovery functions / monitors temperature, fans, and power supplies

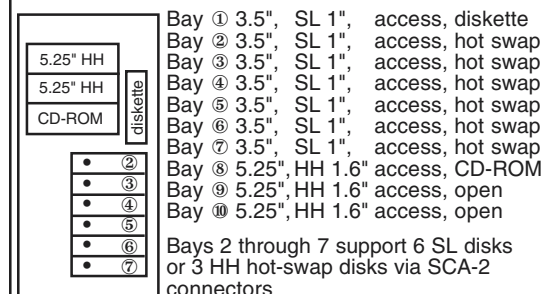
Diagnostics **Diagnosics LED Panel** (under cover) / Light Path Diagnostics™ provides an LED map to failing component / systemboard error LEDs / diagnostics in ROM by pressing F2 at startup for PC-Doctor

Software **ServerGuide™** (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server R5 (Windows NT or Linux version) plus five client licenses¹⁹, AntiVirus software, and APC PowerChute Plus / includes Netfinity Director, others

Keyboard / mouse *Tower only:* IBM 101-key keyboard / IBM mouse (both black)
 Power supply *Std:* two 250 watt hot-swap; *Max:* three 250 watt hot-swap / **redundant with two power supplies** / worldwide / voltage-sensing / auto-restart / fans in each power supply

Fans Three redundant, hot-swap fans / easy removal / PFA / fan failure signals Diagnostic LED and Mgmt Processor / power supply fans

Slot 1: fullsize, 32-bit PCI 2.1 (5v), Bus A
 Slot 2: fullsize, 32-bit PCI 2.1 (5v), Bus A
 Slot 3: fullsize, 64-bit PCI 2.1 (5v), Hot-swap, Bus B
 Slot 4: fullsize, 64-bit PCI 2.1 (5v), Hot-swap, Bus B
 Slot 5: fullsize, 64-bit PCI 2.1 (5v), Hot-swap, Bus B



Rack or Tower (tower shown above)

- Removable, easy release left/top side panel
- Quick release adapter slots (no screws)
- New rail system enables devices (CD-ROM, diskette, tape drives) to snap in and out without screws
- Configuration/Setup Utility invoked by pressing F1 at startup
- SCSISelect near startup by pressing CTRL+A
- Operator Information Panel (in front)
- Predictive failure analysis on disk options, memory, processors, VRMs, power supplies, and fans in conjunction with Netfinity Manager can alert the system administrator of an imminent component failure
- Tower: H 16.8" x W 8.6" x D 26.0"
- Rack: H 8.6" x W 16.8" x D 24.8"
- 55.7 to 82.7 pounds
- Stealth black color
- All non-hot-swaps bays use rails (no screws) for devices

LIMITED WARRANTY

- **3 year parts and labor limited 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 x 7 day coverage, 4 hour response⁷ time**
 - **24 hr x 7 day coverage, 2 hour response⁷ time (in eligible locations)**
- **IBM Start Up Support**
- **24 hour x 7 day telephone¹⁴, fax, electronic, and Internet support**

• = Hot-swap

4xx and 5xx models withdrawn effective December 2000; 6xx models withdrawn effective June 2001
 7xx and 5xx models withdrawn effective September 2001

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IBM Netfinity® 6000R - withdrawn

IBM® Netfinity®:	Rack 1 x Pentium® Xeon™ III 700MHz Open bay	Rack 1 x Pentium III Xeon 700MHz Open bay
Type - model	8682-1RY 8682-2RY	
Mechanical	EIA 19" Rack (4U⁴)	
Disk - capacity	None standard / supports 7200-10000 rpm disks / LVD disks only / SAF-TE 1.0-compliant	
Disk - bays	Hot-swap / 3 bays std / 6 max / 80-pin SCA-2 connectors / common tray with EXP200 and later systems like 5600, 8500R	
Rack support	Supported in IBM NetBay® Racks	
Avail / withdrawn date	May 2000 / May 2001	
Intel® processor(s)	1 x Pentium III Xeon 700/100MHz¹	1 x Pentium III Xeon 700/100MHz
L2 cache	1MB std and max / at processor speed	2MB std and max / at processor speed
Implementation	Motherboard contains four Intel Slot 2 connectors for SECC cartridges (fourth Slot 2 occupied by terminator), PCI slots, one slot for Memory Board, and integrated subsystems / all VRMs integrated in processors	
SMP support	4-way SMP via identical processors / upgrade via SECC into Slot 2 CPU connectors / Pentium III Xeon 900MHz upgrade available	
Mem - std / max / type	512MB std / 16GB max / Chipkill™ multibit error correction using ind std ECC DIMMs (fixes 1 to 4-bit errors on same chip) / Chipkill performed by memory controller and firmware	
Memory - sockets	One Memory Board std and max / 16 sockets / 12 available (four 128MB DIMMs standard) / 4-way memory interleave	
Memory - support	SDRAM / 100MHz / sixteen 168-pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / requires 4 identical DIMMs Supports registered SDRAM ECC DIMMs only (128, 256, 512MB, and 1GB)	
SCSI disk controller	Adaptec® AHA-7899 / dual channel Wide Ultra160 SCSI controller (LVD 160MB/sec) / Ultra 160/m / on planar / 64-bit PCI / no hardware RAID standard	
SCSI channels	Two 16-bit channels / both internal or one internal with one external / <i>Channel A:</i> 16-bit 68-pin LVD cable from controller to backplane / <i>Channel B:</i> internal 16-bit connector to use internally or can attach standard bulkhead LVD cable through punch out for external connector	
Extra SCSI cable	Includes a 16-bit LVD SCSI cable for external SCSI devices via an external 0.8mm VHDCI connector	
IDE controller / cable	Single Primary IDE / one connector on planar / one 1-drop IDE cable (CD-ROM)	
Architecture	Three peer PCI 2.2 buses / Bus A: 32-bit 33MHz (1 PCI slot, ethernet, graphics, South Bridge, Mgmt Processor daughtercard) / Bus B: 64-bit 66MHz (3 PCI slots) / Bus C: 64-bit 33MHz (2 PCI slots, SCSI controller)	
Slots (Active™ PCI)	(See below) 6 hot-swap PCI slots ¹⁰ available / hot replace, hot upgrade, hot expansion	
Chip set	ServerWorks® ServerSet 2.0HE chip set / NB6536 North Bridge 2.0HE / NB6555IO Bridge 2.0 (Inter Module Bus with two 16-bit links to 6536) / IB6566 South Bridge for IDE, USB, ISA bus for Service Processor and Super I/O National Semiconductor® PC97317VUL (diskette, parallel, serial, keyboard, mouse)	
Bays / available	(See diagram below): 5 bays / three hot-swap disk bays standard (option for three additional hot-swap disk bays)	
Status LEDs	Operator Information Panel (in front) / includes power-on, disk, ethernet, information, system error	
10/100 ethernet	AMD® Am79C975 / on planar / 10BaseT, 100BaseTX / full duplex / RJ-45 connector / 2 front LEDs	
CD-ROM / diskette	40X-17X ⁶ CD-ROM / multisession / IDE interface / bootable; <i>Diskette:</i> 3.5" 1.44MB diskette drive / dust cover	
Serial / parallel / USB	<i>Serial:</i> Three 9-pin (one for Mgmt Processor) <i>Parallel:</i> One <i>USB:</i> Two ports (Version 1.1) <i>Adv Sys Mgmt:</i> Two RJ-45	
Graphics controller	SVGA / PCI 2.1 bus / S3® Savage4 (on planar) / 8MB SDRAM std/max / 1280x1024 at 16M colors at 100Hz / DDC2B	
Security	Power-on password / administrator password / hinged bezel to cover power button and reset button / unattended boot / selectable boot / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode	
Systems management	Advanced System Mgmt Processor / on daughtercard / ISA bus proprietary connector / provides remote console and mgmt / allows diagnostic, reset, POST, and auto recovery functions / monitors temp, fans, and power supplies	
Diagnostics	Diagnostics LED Panel (under cover) / Light-Path Diagnostics™ provides an LED map to failing component / motherboard error LEDs / diagnostics in ROM by pressing F2 at startup for PC-Doctor	
Software	ServerGuide™ (installation and configuration utilities), AntiVirus software, and APC PowerChute Plus / IBM Director, others	
Keyboard / mouse	None standard	Pentium III Xeon 700/100MHz/1MB Proc Upg 00N7946
Power supply	Std: one 270 watt hot-swap; Max: three 270 watt hot-swap / front access / redundant with two power supplies in most cases; redundancy with three in all cases / auto-restart	Pentium III Xeon 700/100MHz/2MB Proc Upg 00N7944
Fans	Six (four for disks, memory, PCI; two for processors) / hot-swap / redundant (any single fan can fail while maintaining cooling / PFA / fan failure signals Diagnostic LED and Mgmt Processor / fan in each power supply	Pentium III Xeon 900/100MHz/2MB Proc Upg 19K4633
Prerequisites	Monitor, disk, network oper system, keyboard, mouse, rack	128MB 100MHz SDRAM ECC RDIMM 33L3113
		256MB 100MHz SDRAM ECC RDIMM 33L3115
		512MB 100MHz SDRAM ECC RDIMM 33L3117
		1GB 100MHz SDRAM ECC RDIMM 33L3119
		2GB 100MHz SDRAM ECC RDIMM Kit (4 x 512MB) 33L3147
		Netfinity 270W Hot-Swap Redundant Pwr Supply 37L6880
		36.4GB 10K-4 Ultra160 SCSI Hot-Swap SL 37L7206
		Netfinity 3-Pack Ultra160 Hot-Swap Exp Kit 33L5050

<p>Slot 1: fullsize, 32-bit 33MHz PCI (5v), hot-swap, Bus A</p> <p>Slot 2: fullsize, 64-bit 66MHz PCI (3.3v), hot-swap, Bus B</p> <p>Slot 3: fullsize, 64-bit 66MHz PCI (3.3v), hot-swap, Bus B</p> <p>Slot 4: fullsize, 64-bit 66MHz PCI (3.3v), hot-swap, Bus B</p> <p>Slot 5: fullsize, 64-bit 33MHz PCI (5v), hot-swap, Bus C</p> <p>Slot 6: fullsize, 64-bit 33MHz PCI (5v), hot-swap, Bus C</p>	<ul style="list-style-type: none"> ✦ Rail system enables CD-ROM and diskette to snap in and out without screws ✦ Configuration/Setup Utility invoked by pressing F1 at startup ✦ SCSISelect near startup by pressing CTRL+A ✦ Several hardcopy publications ✦ Predictive Failure Analysis® on disk options, memory, processors, power supplies, and fans in conjunction with IBM Director can alert the system administrator of an imminent component failure ✦ Rack: H 7.0" x W 19.0" x D 28.0" ✦ 62 to 77 pounds ✦ Stealth black color 	<p>WARRANTY SERVICE SUPPORT</p> <ul style="list-style-type: none"> ✦ 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: <ul style="list-style-type: none"> • 24 hr / 7 day coverage, 4 hour response⁷ time • 24 hr / 7 day coverage, 2 hour resp⁷ time (in eligible locations) ✦ 90-day IBM Start Up Support ✦ IBM SystemXtra^{®16} ✦ 24 hour / 7 day telephone¹⁴, bulletin board, fax, electronic, and Internet (www.pc.ibm.com) support ✦ IBM or reseller warranty/service
<p>Bay ① 3.5", SL 1", access, diskette</p> <p>Bay ② 3.5", HH1.6", access, CD-ROM</p> <p>Bay ③ 3.5", SL 1", access, hot swap</p> <p>Bay ④ 3.5", SL 1", access, hot swap</p> <p>Bay ⑤ 3.5", SL 1", access, hot swap</p> <p>* Bay ⑥, ⑦, ⑧ Optional 3-Pack for 3 SL 1.0" hot-swap disk bays (otherwise not usable)</p>	<p><i>All models:</i> Max int disk capacity: 218.4GB² with six 36.4GB SL disks</p>	

IBM Netfinity® 7000 - withdrawn

IBM® PC Server:	Rack 1 x PPro 200 / 512KB open bay	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)	8651-RM0	8651-TM0	8651-RH0	8651-TH0
Mechanical	EIA 19" rack model (11U*)			
Rack / conversion	Rack systems supported in IBM Netfinity Rack or NetBAY22 / kits available to convert rack to tower or tower to rack			
Disk - capacity	None			
Disk - bays	Hot-swap / no trays included (disks ship w/ trays) / 80 pin SCA-2 connectors / 2 backplanes (banks) / SAF-TE 1.0 compliant			
Planned availability	October 1997 / withdrawn December 1998			
Processor(s) / L2 cache	1 x Pentium® Pro 200/66MHz / 512KB L2 cache		1 x Pentium Pro 200/66MHz / 1MB L2 cache	
Processor upgrade(s)	Up to 4 Pentium Pro 200/66MHz processors (same speed/cache size) / SMP / MESI cache coherency / MPS 1.4 compliant Two Processor Cards standard that each have two 387 pin ZIF sockets (Intel® Socket 8) / four total ZIF sockets			
L2 cache - features	512KB or 1MB std/max integrated in each Pentium Pro / write-back / 4 way set associative			
Memory - std / max	256MB std / 4GB max / 16 sockets / 12 available (quantity 4 of 64MB DIMMs standard)			
Memory - DIMMs	60ns / 72 pin industry standard DIMMs / fast page mode / 4 way memory interleaving			
Memory - card	All memory DIMMs installed into one standard memory card (not on motherboard) with 16 sockets			
Memory - install	Memory must be installed in sets of 4 identical DIMMs per bank (so three different DIMM sizes allowed)			
Memory - ECC	Error Checking and Correcting (ECC) memory and memory controller			
SCSI disk controller	2 x Wide Ultra SCSI PCI controllers		All models: Maximum internal disk capacity: 54.12GB with twelve 4.51GB Wide Ultra SCSI disks	
Transfer rates	132MB/sec transfer to PCI; 40MB/sec on SCSI bus			
Raid levels	None (use software or optional SSA or SCSI RAID adapter)			
Adapter vendor / chip	Adaptec® / AIC-7880 / both controllers on motherboard / both use PCI Bus 1			
Channels / connectors	<i>Each:</i> one (internal); supports 15 devices maximum; <i>Each:</i> 1 internal (16-bit); no external connector, but six ext knockouts			
SCSI cabling	- Two 16-bit cables from AIC-7880's to two backplanes - One 16-bit cable with 4 drops for the 5.25" bays; attach to 7880 if not using a backplane or attach to optional adapter			
IDE controller / cabling	Enhanced IDE controller in 82091-AIP chip / one two drop IDE cable from IDE controller to CD-ROM			
Architecture	PCI 2.0 - 6 slots (Dual PCI bus: 3 slots on one bus and 3 slots on other bus) / Intel® Orion 82450GX C0 PCiset / EISA - 4 slots 82091-AIP on EISA bus for diskette, serial, parallel, IDE / one IDE connector / I20 ready			
32-bit slots / available	10 slots (all 32-bit) / 6 PCI slots available / 3 EISA slots available (Adv Mgmt Adapter in one slot; see below)			
Bays / available	(See diagram below): 18 bays / 12 bays support hot-swap disks / five 5.25" HH bays (1 used) / one 3.5" SL bay (diskette) <i>Tower models:</i> Supports up to three NetBAY3 units (3U pedestal for rack-based EXP10 disks, routers, UPS, etc.)			
LAN adapter	No NIC controller or adapter			
CD-ROM	Int CD-ROM / 8X speed / multisession / IDE interface off 82091-AIP / 1.6" HH / audio supprt / bootable / two drop IDE cable			
Diskette drive	3.5" 1.44MB diskette drive / dust cover / diskette cable has a second drop with card edge connector			
Serial / parallel port	<i>Ser:</i> Two 9 pin / UART 16550A / 56Kbps <i>Par:</i> One port (ECP/EPP) / IEEE 1284 standard / 2MB/sec maximum speed			
Graphics controller	SVGA / ISA / 16-bit / Cirrus Logic® 5424 (on planar) / 512KB DRAM (to 1MB) / up to 1024x768 at 16 colors with 72Hz			
Security	User password (not power-on) / administrator password / mechanical lock for front door / selectable boot / intrusion switches (top and front covers) / intrusion logging / secure mode (disables power on and reset button, keyboard, mouse) / diskette and CD-ROM disable / optional Security Cover III to cover back panel			
Systems management	PC Server Advanced Systems Mgmt Adapter / ISA adapter / connector on planar for attachment / provides remote console and management / power on/off system / monitors temperature, disks, fans, chassis intrusion, power supply			
LCD information panel	Intelligent front panel / two 16 character lines of status info			
Indicator LEDs	LEDS for power failure, cooling fan failure, disk failure			
Software	ServerGuide™ - CD-ROM installation and configuration utilities Lotus® Domino® Release 4.6 Server (single processor edition) or Lotus Domino Intranet Starter Pack 1.0, IBM AntiVirus, and APC PowerChute Plus / includes Netfinity® Manager and others			
BIOS	512KB in Flash EEPROM on the planar board (AMI™ BIOS)			
Keyboard / mouse	<i>Tower:</i> IBM 101 key keyboard / IBM Enhanced mouse (400 dpi)			
Power supply	Std: Two 400 watt hot-swap; Max: three 400 watt hot-swap Requires minimum of two / a third backs up two power supplies Universal (voltage sensing) / fans in each power supply / PFA			
Fans	Three hot-swap redundant fans / access from top cover / if more than one fails, system automatically shuts off / PFA fan failure signals indicator LED and Adv Sys Mgmt Adpt			
Other features	Plug and play BIOS / I2C diagnostic bus			

<ul style="list-style-type: none"> ↳ Lockable hinged, removable door to access front panel and removable media ↳ Tower dimensions: H 19" x W 19" x D 26"; 120 lbs ↳ Rack dimensions: H 19" x W 16.5" x D 24"; 120 lbs ↳ Removeable top cover and two side covers ↳ Access adapters, memory, processors from top 	Slot 1: fullsize, 32-bit EISA or 16-bit ISA Slot 2: fullsize, 32-bit EISA or 16-bit ISA Slot 3: fullsize, 32-bit EISA or 16-bit ISA Slot 4: fullsize, 32-bit EISA or 16-bit ISA*** Slot 5: fullsize, 32-bit PCI Slot 6: fullsize, 32-bit PCI Slot 7: fullsize, 32-bit PCI Slot 8: fullsize, 32-bit PCI Slot 9: fullsize, 32-bit PCI Slot 10: fullsize, 32-bit PCI *** used by Adv Sys Mgmt Adapter A Setup Program is available by pressing F1 at startup System Configuration Utility on bootable CD-ROM (info saved to NVRAM and disk; overrides Setup Program) SCSISelect near startup by pressing CTRL+A	WARRANTY SERVICE SUPPORT <ul style="list-style-type: none"> ↳ 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: <ul style="list-style-type: none"> • 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 																					
<div style="border: 1px solid black; padding: 5px;"> <p>Rack and Tower</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">Diskette</td> <td></td> <td></td> </tr> <tr> <td style="text-align: center;">CD-ROM</td> <td style="text-align: center;">• B1</td> <td style="text-align: center;">• A1</td> </tr> <tr> <td style="text-align: center;">HH 5.25"</td> <td style="text-align: center;">• B2</td> <td style="text-align: center;">• A2</td> </tr> <tr> <td style="text-align: center;">HH 5.25"</td> <td style="text-align: center;">• B3</td> <td style="text-align: center;">• A3</td> </tr> <tr> <td style="text-align: center;">HH 5.25"</td> <td style="text-align: center;">• B4</td> <td style="text-align: center;">• A4</td> </tr> <tr> <td style="text-align: center;">HH 5.25"</td> <td style="text-align: center;">• B5</td> <td style="text-align: center;">• A5</td> </tr> <tr> <td style="text-align: center;">HH 5.25"</td> <td style="text-align: center;">• B6</td> <td style="text-align: center;">• A6</td> </tr> </table> <p>↳ Black color ↳ Rugged castors ↳ Supports up to three NetBAY3 units on bottom</p> <p><i>Bank A:</i> 6 SL 3.5" bays or 3 HH 3.5" bays <i>Bank B:</i> 6 SL 3.5" bays or 3 HH 3.5" bays</p> </div>	Diskette			CD-ROM	• B1	• A1	HH 5.25"	• B2	• A2	HH 5.25"	• B3	• A3	HH 5.25"	• B4	• A4	HH 5.25"	• B5	• A5	HH 5.25"	• B6	• A6		
Diskette																							
CD-ROM	• B1	• A1																					
HH 5.25"	• B2	• A2																					
HH 5.25"	• B3	• A3																					
HH 5.25"	• B4	• A4																					
HH 5.25"	• B5	• A5																					
HH 5.25"	• B6	• A6																					

IBM Netfinity® 7000 M10 - withdrawn

IBM® Netfinity®:	Rack 1 x Pentium II Xeon open bay	Rack 1 x Pentium II Xeon open bay	Rack 1 x Pentium II Xeon open bay	Rack 1 x Pentium II Xeon open bay	Rack 1 x Pentium II Xeon open bay
Type - model	8680-1RU	8680-2RU	8680-3RU	8680-4RU	8680-5RU
Mechanical	EIA 19" rack models (11U⁴)				
Rack / conversion	Rack systems supported in IBM Netfinity Rack or Netfinity NetBAY22 / kit available to convert rack to tower (inc 4 castors)				
Disk - standard	None / supports 10,000 rpm disks				
Disk - bays	Hot-swap / no trays included (disks ship with trays) / 80-pin SCA-2 connectors / 1 backplane / SAF-TE 1.0 compliant				
Avail / withdrawn date	September 1998 / February 1999		January 1999 / May 1999		
Intel® processor(s)	1 x Pentium® II Xeon™ 400/100MHz¹		1 x Pentium II Xeon 450/100MHz¹		
L2 cache - features	512KB / full speed		1MB / full speed		2MB / full speed
Processor upgrade(s)	4-way SMP / up to four Pentium II Xeon or Pentium III Xeon processors (same speed/cache size)				
Features	Two Intel 82371 APICs on I/O planar / MPS 1.4 compliant CPU Backplane contains four Intel Slot 2's, 450NX MIOC, two memory slots, and four I2C thermal monitors One Slot 2 used by standard Xeon in Single Edge Contact (SEC) cartridge with heat sink / terminator card in last Slot 2				
Memory - std / max	128MB / 8GB	256MB / 8GB	<i>All support optional multibit error correction (chipkill) memory (fixes 1 to 4-bit errors on same chip) by replacing DIMMs with 512MB Adv Mem Expansion Kit</i>		
Memory - std DIMMs	4 x 32MB DIMMs	4 x 64MB DIMMs	<i>errors on same chip) by replacing DIMMs with 512MB Adv Mem Expansion Kit</i>		
Memory - type	168-pin EDO DIMMs / 50ns / 3.3v / gold connectors / Error Checking and Correcting (ECC) memory and mem controller				
Memory - cards	One memory card std / two cards max / each card has 16 sockets / 4GB max per card / each card has one 82452NX RCG, two 82453NX MUXs / supports Address Bit Permuting and Card to Card for 8 or 16 way				
Memory - DIMMs	Must install DIMMs in a bank of 4 identical DIMMs / 4 way memory interleaving / supports 64, 128, 512MB DIMMs				
SCSI disk controller	Adaptec® AIC-7895 / two Wide Ultra SCSI channels		All models: Maximum internal disk capacity: 72.8GB with four 18.2GB ² Wide Ultra SCSI disks		
Raid levels	None standard				
SCSI Implementation	Integrated on I/O Function Card / controller on PCI Bus 1				
Connectors	One 68-pin connector internal and one .8mm VHDCI connector external / each channel supports up to 15 devices				
SCSI cabling	One 16-bit cable to four bay backplane				
IDE controller / cabling	Enhanced IDE controller in PIIX4 82371AB off PCI Bus 0 / one two drop IDE cable from IDE controller to CD-ROM				
Architecture	Intel 450NX PCIsset (82451NX MIOC, two 82454NX PXBs) / PIIX4 82371AB (EIDE, ISA Bridge, USB) / IBM PCI-to-PCI Bridge (27-82353) / four PCI buses number 0, 1, 4, 10 to allow hot plug of PCI-to-PCI bridge adapters / NS PC97317VUL Super I/O / I/O ready				
I/O Function Card	I/O Function Card has controllers for SVGA, Super I/O, and SCSI / integrates PCI-to-PCI bridge for SCSI and PCI slot 13				
Slots	12 hot-swap 33MHz PCI slots ¹⁰ 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	No NIC controller or adapter				
CD-ROM / Diskette	CD-ROM: 32X-14X ⁶ CD-ROM / IDE interface off PIIX4 / 1.6" HH / bootable; Diskette drive: 3.5" 1.44MB / dust cover				
Ports	Two 9-pin serial / one 25-pin parallel / two USB / one keyboard / one mouse / one SVGA (all in rear)				
Graphics controller	SVGA / S3 ⁷ Trio64V2/GX / integrated on I/O Function Card / 1MB SGRAM std/max / up to 1024x768 at 266 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)				
Systems management	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				
Diagnostics	Light-Path Diagnostics providing LED map to failing part				
LCD information panel	Intelligent front panel / two 16 character lines of status info				
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server Release 5 (Windows NT version) plus five client licenses ¹⁸ , Norton AntiVirus, and APC PowerChute Plus / includes Netfinity® Manager and others				
Upgradeable EEPROMs	2MB EEPROM SurePath™ BIOS, diagnostics, and Mgmt Processor can be upgraded locally and remotely				
Keyboard / mouse	None standard (since for rack)				
Hot-swap power supplies	1RU: One 400 watt Others: Two 400 watt Max: Three Two can provide redundancy dependent upon the configuration / Universal (voltage sensing) / fans in each power supply / Each power supply has individual power cord / PFA				
Fans	Four hot-swap redundant fans / two fans in front for cpu and memory area / two fans on top for adapter area / PFA / fan failure signals Diagnostic LED and mgmt processor				

<ul style="list-style-type: none"> ↪ Lockable hinged, removable door to access front panel and removable media ↪ Dimensions: H 19.25" x W 17.3" x D 25.3"; 120 lbs ↪ Top, front, and rear access ↪ Access adapters from top ↪ Access memory and processors from front 	<ul style="list-style-type: none"> Slot 1: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10 Slot 2: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10 Slot 3: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10 Slot 4: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10 Slot 5: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10 Slot 6: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4 Slot 7: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4 Slot 8: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4 Slot 9: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4 Slot 10: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4 Slot 11: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 0 Slot 12: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 0 Slot 13: fullsize, 32-bit 33MHz PCI, Bus 1 *** 	<p>WARRANTY SERVICE SUPPORT</p> <ul style="list-style-type: none"> ↪ 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: <ul style="list-style-type: none"> • 24 hr / 7 day coverage, 4 hour response⁷ time • 24 hr / 7 day coverage, 2 hour response⁷ time (in eligible locatns) ↪ "IBM Start Up Support" ↪ IBM SystemXtra™¹⁶ ↪ 24 hour / 7 day telephone¹⁴, bulletin board, fax, electronic, and Internet (www.pc.ibm.com/server) support ↪ IBM or reseller warranty/service
<div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <ul style="list-style-type: none"> • A1 • A2 • A3 • A4 </div> <div style="width: 55%;"> <p>Bank A: Four 1" high SL 3.5" bays or two 1.6" high HH 3.5" bays (all Hot-Swap)</p> <ul style="list-style-type: none"> ↪ Black color ↪ 4 removable handles ↪ (If convert to tower) supports up to three NetBAY3 units on bottom ↪ Wired for Mgmt 1.1a ↪ DMI 2.0 </div> </div> <p style="text-align: center;">Rack (can convert to Tower)</p> </div>	<p>*** used by Advanced Remote Mgmt Adapter</p> <ul style="list-style-type: none"> ↪ Setup Program is available by pressing F1 at startup; Diagnostics (PC Doctor) by pressing F2 at startup ↪ Predictive failure analysis alerts on disks, power supplies, memory, processors, VRMs, and fans with Netfinity Manager 	

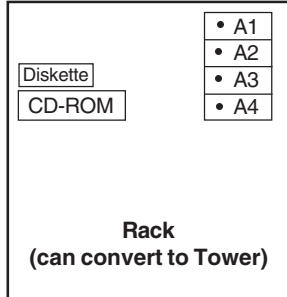
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• = Hot Swap

No warranties are expressed or implied in this summary (N7M10) © IBM Corp. August 1999

IBM 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 500MHz open bay
Type - model	8680-6RY	8680-7RY	8680-8RY
Mechanical	EIA 19" rack models (11U⁴)		
Rack / conversion	Rack systems supported in IBM Netfinity Rack products / kit available to convert rack to tower (inc 4 castors)		
Disk - standard	None / supports 10,000 rpm disks		
Disk - bays	Hot-swap / no trays included (disks ship with trays) / 80-pin SCA-2 connectors / 1 backplane / SAF-TE 1.0 compliant		
Avail / withdrawn date	March 1999 / April 2000	April 1999 / April 2000	April 1999 / April 2000
Intel® processor(s)	1 x Pentium® III Xeon™ 500MHz¹ with 100MHz system bus		
L2 cache	512KB / full speed	1MB / full speed	2MB / full speed
Processor upgrade(s)	4-way SMP / up to four Pentium III Xeon 500MHz or 550MHz processors (same speed and cache size)		
Features	Two Intel 82371 APICs on I/O planar / MPS 1.4 compliant CPU Backplane contains four Intel Slot 2's, 450NX MIOC, two memory slots, and four I2C thermal monitors One Slot 2 used by standard Xeon in Single Edge Contact (SEC) cartridge with heat sink / terminator card in last Slot 2		
Memory - std / max	256MB / 8GB		
Memory - std DIMMs	4 x 64MB DIMMs		
Memory - type	168-pin EDO DIMMs / 50ns / 3.3v / gold connectors / Error Checking and Correcting (ECC) memory and mem controller		
Memory - cards	One memory card std / two cards max / each card has 16 sockets / 4GB max per card / each card has one 82452NX RCG, two 82453NX MUXs / supports Address Bit Permuting and Card to Card for 8 or 16 way		
Memory - DIMMs	Must install DIMMs in a bank of 4 identical DIMMs / 4 way memory interleaving / supports 64, 128, 512MB DIMMs		
SCSI disk controller	Adaptec® AIC-7895 / two Wide Ultra SCSI channels		All models: Maximum internal disk capacity: 72.8GB with four 18.2GB ² Wide Ultra SCSI disks
Raid levels	None standard		
SCSI Implementation	Integrated on I/O Function Card / controller on PCI Bus 1		
Connectors	One 68-pin connector internal and one .8mm VHDCI connector external / each channel supports up to 15 devices		
SCSI cabling	One 16-bit cable to four bay backplane		
IDE controller / cabling	Enhanced IDE controller in PIIX4 82371AB off PCI Bus 0 / one two drop IDE cable from IDE controller to CD-ROM		
Architecture	Intel 450NX PCIset (82451NX MIOC, two 82454NX PXBs) / PIIX4 82371AB (EIDE, ISA Bridge, USB) / IBM PCI-to-PCI Bridge (27-82353) / four PCI buses number 0, 1, 4, 10 to allow hot plug of PCI-to-PCI bridge adapters / NS PC97317VUL Super I/O / I ₂ O ready		
I/O Function Card	I/O Function Card has controllers for SVGA, Super I/O, and SCSI / integrates PCI-to-PCI bridge for SCSI and PCI slot 13		
Slots	12 hot-swap 33MHz PCI slots ¹⁰ 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	No NIC controller or adapter		
CD-ROM / Diskette	CD-ROM: 32X-14X ⁹ CD-ROM / IDE interface off PIIX4 / 1.6" HH / bootable; Diskette drive: 3.5" 1.44MB / dust cover		
Ports	Two 9-pin serial / one 25-pin parallel / two USB / one keyboard / one mouse / one SVGA (all in rear)		
Graphics controller	SVGA / S3 ⁸ Trio64V2/GX / integrated on I/O Function Card / 1MB SGRAM std/max / up to 1024x768 at 266 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)		
Systems management	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 LM78 hardware monitor (voltage, temperature, fans)		
Diagnostics	Light-Path Diagnostics providing LED map to failing part (under top cover) / Information LED Panel in front		
LCD information panel	Intelligent front panel / two 16 character lines of status info		
Software	ServerGuide™ - CD-ROM installation and configuration utilities, Lotus® Domino® Application Server Release 5 (Windows NT Version) plus five client licenses ¹⁸ , AntiVirus, and APC PowerChute Plus / includes Netfinity® Manager and others		
Upgradeable EEPROMs	2MB EEPROM SurePath™ BIOS, diagnostics, and Mgmt Processor can be upgraded locally and remotely		
Keyboard / mouse	None standard (since for rack)		
Hot-swap power supplies	Standard: Two 400 watt Max: Three (four bays available) Two can provide redundancy dependent upon the configuration / Universal (voltage sensing) / fans in each power supply / Each power supply has individual power cord / PFA		
Fans	Four hot-swap redundant fans / two fans in front for cpu and memory area / two fans on top for adapter area / PFA / fan failure signals Diagnostic LED and mgmt processor		

<ul style="list-style-type: none"> ↪ Lockable hinged, removable door to access front panel and removable media ↪ Dimensions: H 19.25" x W 17.3" x D 25.3"; 120 lbs ↪ Top, front, and rear access ↪ Access adapters from top ↪ Access memory and processors from front 	<p>Slot 1: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10</p> <p>Slot 2: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10</p> <p>Slot 3: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10</p> <p>Slot 4: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10</p> <p>Slot 5: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10</p> <p>Slot 6: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4</p> <p>Slot 7: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4</p> <p>Slot 8: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4</p> <p>Slot 9: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4</p> <p>Slot 10: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4</p> <p>Slot 11: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 0</p> <p>Slot 12: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 0</p> <p>Slot 13: fullsize, 32-bit 33MHz PCI, Bus 1 ***</p> <p>*** used by Advanced Remote Mgmt Adapter</p> <p>↪ Setup Program is available by pressing F1 at startup; Diagnostics (PC Doctor) by pressing F2 at startup</p> <p>↪ Predictive failure analysis alerts on disks, power supplies, memory, processors, VRMs, and fans with Netfinity Manager</p>	<p>LIMITED WARRANTY</p> <ul style="list-style-type: none"> ↪ 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: <ul style="list-style-type: none"> • 24 hr / 7 day coverage, 4 hour average response⁷ time • 24 hr / 7 day coverage, 2 hour average response⁷ time (in eligible locations) ↪ "IBM Start Up Support" ↪ IBM SystemXtra^{®16} ↪ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com/server) support ↪ IBM or reseller warranty/service
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IBM 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 Xeon open bay	Rack 1 x Pent III Xeon open bay	Rack 1 x Pent III Xeon open bay
Type - model	8680-1SY	8680-2SY	8680-3SY	8680-11Y	8680-21Y
Mechanical	EIA 19" rack models (11U⁴)				
Rack / conversion	Rack systems supported in IBM Netfinity Rack products / kit available to convert rack to tower (inc 4 castors)				
Disk - standard	None / supports 10,000 rpm disks				
Disk - bays	Hot-swap / no trays included (disks ship with trays) / 80-pin SCA-2 connectors / 1 backplane / SAF-TE 1.0 compliant				
Avail / withdrawn date	August 1999 / July 2000		November 1999 / July 2000		
Intel® processor(s)	1 x Pentium® III Xeon™ 550MHz¹ with 100MHz system bus				
L2 cache	512KB / full speed	1MB / full speed	2MB / full speed	512KB / full speed	1MB / full speed
Processor upgrade(s)	4-way SMP / up to four Pentium III Xeon 550MHz processors (same speed/cache size)				
Features	Two Intel 82371 APICs on I/O planar / MPS 1.4 compliant CPU Backplane contains four Intel Slot 2's, 450NX MIOC, two memory slots, and four I2C thermal monitors One Slot 2 used by standard Xeon in Single Edge Contact (SEC) cartridge with heat sink / terminator card in last Slot 2				
Memory - std / max	256MB / 8GB <i>Supports optional multibit error correction (chipkill)</i>			512MB / 4GB / chipkill memory standard	
Memory - std DIMMs	4 X 64MB DIMMs <i>memory (fixes 1 to 4-bit errors on same chip) by replacing DIMMs with 512MB Adv Mem Expansion Kit</i>			4 x 128MB DIMMs	
Memory - type	168-pin EDO DIMMs / 50ns / 3.3v / gold connectors / Error Checking and Correcting (ECC) memory and mem controller				
Memory - cards	One memory card std / two cards max / each card has 16 sockets / 4GB max per card / each card has one 82452NX RCG, two 82453NX MUXs / supports Address Bit Permuting and Card to Card for 8 or 16 way				
Memory - DIMMs	Must install DIMMs in a bank of 4 identical DIMMs / 4 way memory interleaving / supports 64, 128, 512MB DIMMs				
SCSI disk controller	Adaptec® AIC-7895 / two Wide Ultra SCSI channels		All models: Maximum internal disk capacity: 72.8GB ² with four 18.2GB Wide Ultra SCSI disks		
SCSI Implementation	Integrated on I/O Function Card / controller on PCI Bus 1				
Connectors	One 68-pin connector internal and one .8mm VHDCI connector external / each channel supports up to 15 devices				
SCSI cabling	One 16-bit cable to four bay backplane				
IDE controller / cabling	Enhanced IDE controller in PIIX4 82371AB off PCI Bus 0 / one two drop IDE cable from IDE controller to CD-ROM				
Architecture	Intel 450NX PCIset (82451NX MIOC, two 82454NX PXBs) / PIIX4 82371AB (EIDE, ISA Bridge, USB) / IBM PCI-to-PCI Bridge (27-82353) / four PCI buses number 0, 1, 4, 10 to allow hot plug of PCI-to-PCI bridge adapters / NS PC97317VUL Super I/O / I ₂ O ready				
I/O Function Card	I/O Function Card has controllers for SVGA, Super I/O, and SCSI / integrates PCI-to-PCI bridge for SCSI and PCI slot 13				
Slots	12 hot-swap 33MHz PCI slots ¹⁰ 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	No NIC controller or adapter				
CD-ROM / Diskette	CD-ROM: 32X-14X ⁶ CD-ROM / IDE interface off PIIX4 / 1.6" HH / bootable; Diskette drive: 3.5" 1.44MB / dust cover				
Ports	Two 9-pin serial / one 25-pin parallel / two USB / one keyboard / one mouse / one SVGA (all in rear)				
Graphics controller	SVGA / S3 ⁷ Trio64V2/GX / integrated on I/O Function Card / 1MB SGRAM std/max / up to 1024x768 at 266 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)				
Systems management	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 LM78 hardware monitor (voltage, temperature, fans)				
Diagnostics	Light-Path Diagnostics providing LED map to failing part (under top cover) / Information LED Panel in front				
LCD information panel	Intelligent front panel / two 16 character lines of status info				
Software	ServerGuide™ - CD-ROM installation and configuration utilities, Lotus® Domino® Application Server Release 5 (Windows NT Version) plus five client licenses ⁸ , AntiVirus, and APC PowerChute Plus / includes Netfinity® Manager and others				
Upgradeable EEPROMs	2MB EEPROM SurePath™ BIOS, diagnostics, and Mgmt Processor can be upgraded locally and remotely				
Keyboard / mouse	None standard (since for rack)				
Hot-swap power supplies	Standard: Two 400 watt Max: Three (four bays available) Two can provide redundancy dependent upon the configuration / Universal (voltage sensing) / fans in each power supply / Each power supply has individual power cord / PFA				
Fans	Four hot-swap redundant fans / two fans in front for cpu and memory area / two fans on top for adapter area / PFA / fan failure signals Diagnostic LED and mgmt processor				

<ul style="list-style-type: none"> ↪ Lockable hinged, removable door to access front panel and removable media ↪ Dimensions: H 19.25" x W 17.3" x D 25.3"; 120 lbs ↪ Top, front, and rear access ↪ Access adapters from top ↪ Access memory and processors from front <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">Rack (can convert to Tower)</p> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 2px;">Diskette</div> <div style="border: 1px solid black; padding: 2px;">CD-ROM</div> </div> <ul style="list-style-type: none"> • A1 • A2 • A3 • A4 </div> <p><i>Bank A:</i> Four 1" high SL 3.5" bays or two 1.6" high HH 3.5" bays (all Hot-Swap)</p> <ul style="list-style-type: none"> ↪ Black color ↪ 4 removable handles ↪ (If convert to tower) supports up to three NetBAY3 units on bottom ↪ Wired for Mgmt 1.1a ↪ DMI 2.0, ACPI 1.0 	<p>Slot 1: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10</p> <p>Slot 2: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10</p> <p>Slot 3: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10</p> <p>Slot 4: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10</p> <p>Slot 5: fullsize, 64-bit 33MHz PCI, Hot-swap, Bus 10</p> <p>Slot 6: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4</p> <p>Slot 7: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4</p> <p>Slot 8: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4</p> <p>Slot 9: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4</p> <p>Slot 10: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 4</p> <p>Slot 11: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 0</p> <p>Slot 12: fullsize, 32-bit 33MHz PCI, Hot-swap, Bus 0</p> <p>Slot 13: fullsize, 32-bit 33MHz PCI, Bus 1 ***</p> <p>*** used by Advanced Remote Mgmt Adapter</p> <ul style="list-style-type: none"> ↪ Setup Program is available by pressing F1 at startup; Diagnostics (PC Doctor) by pressing F2 at startup ↪ Predictive failure analysis alerts on disks, power supplies, memory, processors, VRMs, and fans with Netfinity Manager 	<p style="text-align: center;">LIMITED WARRANTY</p> <ul style="list-style-type: none"> ↪ 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: <ul style="list-style-type: none"> • 24 hr / 7 day coverage, 4 hour average response⁷ time • 24 hr / 7 day coverage, 2 hour average response⁷ time (in eligible locations) ↪ "IBM Start Up Support" ↪ IBM SystemXtra^{® 16} ↪ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet ↪ (www.pc.ibm.com/server) support ↪ IBM or reseller warranty/service
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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	8666-11Y	8666-1RY	8666-21Y	8666-2RY
Mechanical	Tower	EIA 19" rack (8U⁴)	Tower	EIA 19" rack (8U⁴)
Rack / conversion	Rack systems supported in IBM Netfinity Rack products / kits available to convert rack to tower or tower to rack			
Disk - capacity / bays	None standard / hot-swap / no trays included (disks ship w/ trays) / 80-pin SCA-2 connectors / 1 backplane (bank)			
Avail / withdrawn date	March 2000 / December 2000			
Intel® processor(s)	1 x Pentium® III Xeon™ 550/100MHz¹		1MB / full speed	
L2 cache	512MB / full speed			
Implementation	Each processor with ECC L2 cache integrated in Single Edge Contact (SEC) cartridge in Intel Slot 2			
Processor upgrade(s)	4-way SMP / to four identical Pentium III Xeon™ Slot 2 (SC330) CPUs / planned upgradeability to higher speed Intel processors; detailed info will be provided at a later date			
Mechanical	Each processor has one VRM / Processor Board has one Memory Board slot, six PCI slots, four Intel Slot 2 slots, four VRM slots (all removable as a slide out Shuttle for easy serviceability)			
Mem - std / max / type	256MB std / 16GB¹³ max / ECC (Error Checking and Correcting memory controller and DIMMs)			
Memory - sockets	One Memory Board std and max / 16 sockets / 12 available (four 64MB DIMMs standard) / 4-way memory interleave			
Memory - features	SDRAM / 100MHz / sixteen 168-pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / requires 4 identical DIMMs			
Memory - support	Supports registered SDRAM ECC DIMMs only (64, 128, 256, 512MB, and 1GB)			
Chipkill upgrade	Upgrade to Chipkill™ (multibit error correction on same chip) via Upgrade Kit 10K2169 (also includes 4 Active PCI slots)			
SCSI controller	Adaptec® AIC-7896 / no integrated RAID controller			
SCSI channels	Two Wide Ultra2 SCSI channels (LVDS 80MB/sec) / each channel supports 15 devices			
Cache / bus	No cache / PCI Bus C 32-bit 33MHz / controller on Input/Output Board			
Connectors and cabling	Channel A: one 0.8mm VHDCI external SCSI connector Channel B: 68-pin internal connector on power backplane with 16-bit LVD cable to hot-swap backplane			
Additional cable	Two-drop 16-bit LVD SCSI cable included to support devices in two left bays			
IDE controller / cabling	Enhanced IDE controller / one drop IDE cable from one IDE connector to CD-ROM			
Architecture / chip set	ServerWorks® ServerSet III HE chip set / CNB20HE North Bridge (PCI 2.2 and memory controller) / CIOB I/O Bridge (Frontside Bus interface from PCI bus to North Bridge) / OSB4 South Bridge (EIDE, ISA Bridge, USB, SMBus, IOAPIC) / three peer PCI 2.1 buses (A: 64-bit 66MHz, B: 64-bit 33MHz, C: 32-bit 33MHz) / NS PC97317VUL Super I/O			
Active PCI™ slots	None standard / upgrade to 4 Active PCI 64-bit slots (like Netfinity 7600) via Upgrade Kit 10K2169 (also includes chipkill)			
Bays	14 bays total: 10 hot-swap disk bays / three 5.25" HH bays (1 used by CD) / one 3.5" SL bay (diskette) / see below <i>Tower models:</i> Optional NetBAY3 on bottom (3U pedestal for rack-based devices) / supports 2 more NetBAY3			
Ethernet controller	AMD® Am79C975 / on PCI Bus C / 10BaseT, 100BaseTX / full duplex / RJ-45 connector / 3 LEDs			
CD-ROM / diskette drv	CD-ROM: 40X-17X ⁶ CD-ROM / IDE (ATAPI) / 1.6" HH / bootable; Diskette drive: 3.5" 1.44 MB diskette drive / dust cover			
Ports	Serial: Three 9-pin (one for Mgmt Processor); Parallel: One 25-pin; USB: Two Ver 1.1; Keyboard; Mouse; RS485 mgmt			
Graphics controller	SVGA / PCI Bus C / S3® Trio-3D (on Input/Output Board) / 4MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz			
Security	Power-on password / administrator password / front door and top cover mechanical lock (tower only) / NetBAY3 bezel lock / selectable boot / secure mode (disables keyboard and mouse) / diskette, mouse, CD-ROM disable / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode			
Systems management	Netfinity Advanced System Mgmt Processor (service processor) / on planar / provides remote console and mgmt / power on/off system / monitors temperature, disks, fans, power supply			
Diagnostics Software	Light-Path Diagnostics™ Panel providing LED map to failing part (under top cover) / Information LED Panel in front ServerGuide™ (CD-ROM installation and configuration utilities), Lotus® Domino® Application Server R5 (Windows NT or Linux version) plus five client licenses ¹⁹ , Norton AntiVirus, APC PowerChute Plus / includes Netfinity Director™ and others			
UpgradeableEEPROMs	BIOS (remote), diagnostics, and Mgmt Processor EEPROMs can be upgraded			
Keyboard / mouse	Tower: IBM 101-key keyboard / IBM mouse (both black)			
Power supply	Std: two 250 watt hot-swap; Max: four 250 watt hot-swap / three provide N+1 redundancy for typical config / tool-free install / universal (voltage sensing) / fans in each power supply / PFA			
Fans	Four logical fans / five hot-swap fans (2 in disk area, 1 in slot area, 2 in CPU area) / variable speed / PFA / fan failure signals Diagnostic LED and Mgmt Processor / plus fan in each power supply			

<p>↳ Tower dim: H 15.7" x W 19" x D 28"; 88 to 123 lbs</p> <p>↳ Rack dim: H 13.8" x W 17.3" x D 27.6"; 88 to 123 lbs</p>	<p>Slot 1: full, 64-bit 66MHz 3.3v PCI, not hot, Bus A</p> <p>Slot 2: full, 64-bit 66MHz 3.3v PCI, not hot, Bus A</p> <p>Slot 3: full, 64-bit 33MHz 5v PCI, not hot, Bus B</p> <p>Slot 4: full, 64-bit 33MHz 5v PCI, not hot, Bus B</p> <p>Slot 5: full, 64-bit 33MHz 5v PCI, not hot, Bus B</p> <p>Slot 6: full, 64-bit 33MHz 5v PCI, not hot, Bus B</p>	<p>LIMITED WARRANTY</p> <p>↳ 3 year parts and labor warranty³</p> <p>↳ International Warranty Service³</p> <p>↳ On site warranty all 3 years</p> <p>↳ All cities in all states</p> <p>↳ 8 am - 5 pm, Mon- Fri coverage</p> <p>↳ Next business day average response time</p> <p>↳ On site warranty upgrade options:</p> <ul style="list-style-type: none"> • 24 hr / 7 day coverage, 4 hour average response⁷ time • 24 hr / 7 day coverage, 2 hour average response⁷ time (in eligible locations) <p>↳ 90-day IBM Start Up Support</p> <p>↳ IBM SystemXtra[®],¹⁶</p> <p>↳ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com) support</p> <p>↳ IBM or reseller warranty/service</p>
<p>↳ Black color</p> <p>↳ ACPI 1.0</p> <p>↳ Orange components and labels indicate hot-swap options</p> <p>↳ Suppliers Declaration</p> <p>↳ Vital Product Data</p> <p>↳ Backup BIOS</p>	<p>↳ Setup Program is available by pressing F1 at startup; Diagnostics (PC-Doctor) by pressing F2 at startup; CTRL+A for SCSISelect Utility</p> <p>↳ Removeable top cover and two side covers</p> <p>↳ Access adapters, memory, CPUs from top</p> <p>↳ Predictive failure analysis: alerts generated by Adv System Mgmt Processor for Netfinity Director for DIMM(s), processor(s), VRM(s), power supply(s), disk(s), and fans</p>	
<p>Rack or Tower</p> <ul style="list-style-type: none"> •A1 •A2 •A3 •A4 •A5 •A6 •A7 •A8 •A9 •A10 <p>Diskette</p> <p>CD-ROM</p> <p>HH 5.25"</p> <p>HH 5.25"</p>	<p>Backplane A:</p> <p>10 SL 3.5" bays</p> <p>or 7 HH 3.5" bays</p> <p>Disks not supported in 5.25" bays</p> <p>Maximum internal disk capacity: 254.8GB² with seven 36.4GB HH hot-swap SCSI disks</p>	
<p>Optional NetBAY3 pedestal (supports 2 more NetBAY3's)</p>		

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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	8666-31Y	8666-3RY	8666-41Y	8666-4RY
Mechanical	Tower	EIA 19" rack (8U⁴)	Tower	EIA 19" rack (8U⁴)
Rack / conversion	Rack systems supported in IBM Netfinity Rack products / kits available to convert rack to tower or tower to rack			
Disk - capacity / bays	None standard / hot-swap / no trays included (disks ship w/ trays) / 80-pin SCA-2 connectors / 1 backplane (bank)			
Planned availability	June 2000			
Intel® processor(s)	1 x Pentium® III Xeon™ 700/100MHz¹		1 x Pentium® III Xeon™ 700/100MHz¹	
L2 cache	1MB / full speed		2MB / full speed	
Implementation	Each processor with ECC L2 cache integrated in Single Edge Contact (SEC) cartridge in Intel Slot 2			
Processor upgrade(s)	4-way SMP / to four identical Pentium III Xeon™ Slot 2 (SC330) CPUs / upgrade to Pentium III Xeon 900MHz supported			
Mechanical	Each processor has one VRM / Processor Board has one Memory Board slot, six PCI slots, four Intel Slot 2 slots, four VRM slots (all removable as a slide out Shuttle for easy serviceability)			
Mem - std / max / type	256MB std / 16GB¹³ max / ECC (Error Checking and Correcting memory controller and DIMMs)			
Memory - sockets	One Memory Board std and max / 16 sockets / 12 available (four 64MB DIMMs standard) / 4-way memory interleave			
Memory - features	SDRAM / 100MHz / sixteen 168-pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / requires 4 identical DIMMs			
Memory - support	Supports registered SDRAM ECC DIMMs only (64, 128, 256, 512MB, and 1GB)			
Chipkill upgrade	Upgrade to Chipkill™ (multibit error correction on same chip) via Upgrade Kit 10K2169 (also includes 4 Active PCI slots)			
SCSI controller	Adaptec® AIC-7896 / no integrated RAID controller			
SCSI channels	Two Wide Ultra2 SCSI channels (LVDS 80MB/sec) / each channel supports 15 devices			
Cache / bus	No cache / PCI Bus C 32-bit 33MHz / controller on Input/Output Board			
Connectors and cabling	Channel A: one 0.8mm VHDCI external SCSI connector Channel B: 68-pin internal connector on power backplane with 16-bit LVD cable to hot-swap backplane			
Additional cable	Two-drop 16-bit LVD SCSI cable included to support devices in two left bays			
IDE controller / cabling	Enhanced IDE controller / one drop IDE cable from one IDE connector to CD-ROM			
Architecture / chip set	ServerWorks® ServerSet III HE chip set / CNB20HE North Bridge (PCI 2.2 and memory controller) / CIOB I/O Bridge (Frontside Bus interface from PCI bus to North Bridge) / OSB4 South Bridge (EIDE, ISA Bridge, USB, SMBus, IOAPIC) / three peer PCI 2.1 buses (A: 64-bit 66MHz, B: 64-bit 33MHz, C: 32-bit 33MHz) / NS PC97317VUL Super I/O			
Active PCI™ slots	None standard / upgrade to 4 Active PCI 64-bit slots (like Netfinity 7600) via Upgrade Kit 10K2169 (also includes chipkill)			
Bays	14 bays total: 10 hot-swap disk bays / three 5.25" HH bays (1 used by CD) / one 3.5" SL bay (diskette) / see below <i>Tower models:</i> Optional NetBAY3 on bottom (3U pedestal for rack-based devices) / supports 2 more NetBAY3			
Ethernet controller	AMD® Am79C975 / on PCI Bus C / 10BaseT, 100BaseTX / full duplex / RJ-45 connector / 3 LEDs			
CD-ROM / diskette drv	CD-ROM: 40X-17X ⁶ CD-ROM / IDE (ATAPI) / 1.6" HH / bootable; Diskette drive: 3.5" 1.44 MB diskette drive / dust cover			
Ports	Serial: Three 9-pin (one for Mgmt Processor); Parallel: One 25-pin; USB: Two Ver 1.1; Keyboard; Mouse; RS485 mgmt			
Graphics controller	SVGA / PCI Bus C / S3® Trio-3D (on Input/Output Board) / 4MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz			
Security	Power-on password / administrator password / front door and top cover mechanical lock (tower only) / NetBAY3 bezel lock / selectable boot / secure mode (disables keyboard and mouse) / diskette, mouse, CD-ROM disable / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode			
Systems management	Netfinity Advanced System Mgmt Processor (service processor) / on planar / provides remote console and mgmt / power on/off system / monitors temperature, disks, fans, power supply			
Diagnostics	Light-Path Diagnostics™ Panel providing LED map to failing part (under top cover) / Information LED Panel in front			
Software	ServerGuide™ (CD-ROM installation and configuration utilities), Norton AntiVirus, APC PowerChute Plus / includes Netfinity Director™ and others			
UpgradeableEEPROMs	BIOS (remote), diagnostics, and Mgmt Processor EEPROMs can be upgraded			
Keyboard / mouse	Tower: IBM 101-key keyboard / IBM mouse (both black)			
Power supply	Std: two 250 watt hot-swap; Max: four 250 watt hot-swap / three provide N+1 redundancy for typical config / tool-free install / universal (voltage sensing) / fans in each power supply / PFA			
Fans	Four logical fans / five hot-swap fans (2 in disk area, 1 in slot area, 2 in CPU area) / variable speed / PFA / fan failure signals Diagnostic LED and Mgmt Processor / plus fan in each power supply			

<p>↪ Tower dim: H 15.7" x W 19" x D 28"; 88 to 123 lbs</p> <p>↪ Rack dim: H 13.8" x W 17.3" x D 27.6"; 88 to 123 lbs</p>	<p>Slot 1: full, 64-bit 66MHz 3.3v PCI, not hot, Bus A</p> <p>Slot 2: full, 64-bit 66MHz 3.3v PCI, not hot, Bus A</p> <p>Slot 3: full, 64-bit 33MHz 5v PCI, not hot, Bus B</p> <p>Slot 4: full, 64-bit 33MHz 5v PCI, not hot, Bus B</p> <p>Slot 5: full, 64-bit 33MHz 5v PCI, not hot, Bus B</p> <p>Slot 6: full, 64-bit 33MHz 5v PCI, not hot, Bus B</p>	<p>LIMITED WARRANTY</p> <ul style="list-style-type: none"> ↪ 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: <ul style="list-style-type: none"> • 24 hr / 7 day coverage, 4 hour average response⁷ time • 24 hr / 7 day coverage, 2 hour average response⁷ time (in eligible locations) ↪ IBM Server Start Up Support ↪ IBM SystemXtra[®],¹⁶ ↪ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com) support ↪ IBM or reseller warranty/service
<p>↪ Black color</p> <p>↪ ACPI 1.0</p> <p>↪ Orange components and labels indicate hot-swap options</p> <p>↪ Suppliers Declaration</p> <p>↪ Vital Product Data</p> <p>↪ Backup BIOS</p> <p>Backplane A: 10 SL 3.5" bays or 7 HH 3.5" bays</p> <p>Disks not supported in 5.25" bays</p> <p>Maximum internal disk capacity: 364GB² with ten 36.4GB SL hot-swap SCSI disks</p>	<p>↪ Setup Program is available by pressing F1 at startup; Diagnostics (PC-Doctor) by pressing F2 at startup; CTRL+A for SCSISelect Utility</p> <p>↪ Removeable top cover and two side covers</p> <p>↪ Access adapters, memory, CPUs from top</p> <p>↪ Predictive failure analysis: alerts generated by Adv System Mgmt Processor for Netfinity Director for DIMM(s), processor(s), VRM(s), power supply(s), disk(s), and fans</p>	

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• = Hot Swap
Models withdrawn from marketing effective May 2001

No warranties are expressed or implied in this summary
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IBM Netfinity® 7600 - withdrawn

IBM® Netfinity®: Type-model	Qty x Processor	L2 cache	Memory	ECC	Disk	SCSI controllers	Mechanical	Slots x bays	Hot-swap disk bays	Available date
8665-1RY	1 x Xeon™ 550/100	1MB	512MB	Chipkill™	None	ServeRAID™-3HB, AIC-7896	8U rack	6 slots x 14 bays (10 hs)		Mar 2000
8665-2RY	1 x Xeon 550/100	2MB	512MB	Chipkill	None	ServeRAID-3HB, AIC-7896	8U rack	6 slots x 14 bays (10 hs)		Mar 2000
8665-3RY	1 x Xeon 700/100	2MB	512MB	Chipkill	None	ServeRAID-3HB, AIC-7896	8U rack	6 slots x 14 bays (10 hs)		Jun 2000
8665-4RY	1 x Xeon 700/100	1MB	512MB	Chipkill	None	ServeRAID-4M, AIC-7896	8U rack	6 slots x 14 bays (10 hs)		Oct 2000
8665-5RY	1 x Xeon 700/100	2MB	512MB	Chipkill	None	ServeRAID-4M, AIC-7896	8U rack	6 slots x 14 bays (10 hs)		Oct 2000
Intel® processor(s)	1 x Pentium® III Xeon™ 550 or 700MHz¹ with 100MHz Front Side Bus									
L2 cache	1MB or 2MB / full speed									
Implementation	Each processor with ECC L2 cache integrated in Single Edge Contact (SEC) cartridge in Intel Slot 2									
Processor upgrade(s)	4-way SMP / to four identical Pentium III Xeon™ Slot 2 (SC330) CPUs / upgrade to Pentium III Xeon 900MHz supported									
Mechanical	Each processor has one VRM / Processor Board has one Memory Board slot, six PCI slots, four Intel Slot 2 slots, four VRM slots (all removable as a slide out Shuttle for easy serviceability)									
Mem - std / max / type	512MB std / 16GB¹³ max / Chipkill™ multibit error correction using ind std ECC DIMMs (fixes 1 to 4-bit errors on same chip) / Chipkill performed by memory controller and firmware									
Memory - sockets	One Memory Board std and max / 16 sockets / 12 available (four 128MB DIMMs standard) / 4-way memory interleave									
Memory - support	SDRAM / 100MHz / sixteen 168-pin gold-plated DIMM 3.3 volt sockets / PC100-compliant / requires 4 identical DIMMs supports registered SDRAM ECC DIMMs only (128, 256, 512MB, and 1GB)									
SCSI controller	IBM ServeRAID-3HB adapter (3 channels) or IBM ServeRAID-4M (2 channels) / <i>all</i> : Adaptec® AIC-7896 (two channels)									
SCSI channels	<i>ServeRAID-3HB and AIC-7896</i> : Wide Ultra2 SCSI channels (LVDS 80MB/sec) / each channel supports 14 devices									
ServeRAID cache / bus	<i>ServeRAID-4M</i> : Wide Ultra160 SCSI channels (LVDS 160MB/sec) / each channel supports 14 devices									
Adaptec cache / bus	<i>ServeRAID-3HB</i> : 32MB std/max with 32MB mirrored battery-backup cache / PCI Bus B 64-bit 33MHz									
Connectors and cabling	<i>ServeRAID-4M</i> : 64MB ECC std/max battery-backup cache / PCI Bus B 64-bit 33MHz									
Additional cable	<i>Adaptec AIC-7896</i> : No cache / PCI Bus C 32-bit 33MHz / controller on Input/Output Board									
IDE controller / cabling	<i>Internal channel of ServeRAID</i> : 68-pin int conn (1 on -3HB, 2 on -4M) with 16-bit LVD cable to hot-swap backplane									
Disk - capacity / bays	<i>External channels of ServeRAID</i> : two 0.8mm VHDCI connectors on rear of adapter									
Mechanical	Two-drop 16-bit LVD SCSI cable included to support devices in two left bays									
Rack / conversion	Enhanced IDE controller / one drop IDE cable from one IDE connector to CD-ROM									
Architecture / chip set	None standard / hot-swap / no trays included (disks ship w/ trays) / 80 pin SCA-2 connectors / 1 backplane (bank)									
Active PCI™ slots	EIA 19" rack (8U⁴)									
Bays	Rack systems supported in IBM Netfinity Rack products / kits available to convert rack to tower or tower to rack									
Ethernet controller	ServerWorks® ServerSet III HE / CNB20HE North Bridge (PCI 2.2 and memory controller) / CIOB I/O Bridge (Frontside Bus interface from PCI bus to North Bridge) / OSB4 South Bridge (EIDE, ISA Bridge, USB, SMBus, IOAPIC) / three peer PCI 2.1 buses (A: 64-bit 66MHz, B: 64-bit 33MHz, C: 32-bit 33MHz) / NS PC97317VUL Super I/O									
CD-ROM / diskette drv	4 hot-swap PCI slots¹⁰ with power and attention indicator lights (optical sensors control power to slot) / Active PCI via hot replace, hot upgrade, hot expansion (see below for details)									
Ports	14 bays total: 10 hot-swap disk bays / three 5.25" HH bays (1 used by CD) / one 3.5" SL bay (diskette)									
Graphics controller	AMD® Am79C975 / on PCI Bus C / 10BaseT, 100BaseTX / full duplex / RJ-45 connector / 3 LEDs									
Security	<i>CD-ROM</i> : 40X-17X ⁶ CD-ROM / IDE (ATAPI) / 1.6" HH / bootable; <i>Diskette drive</i> : 3.5" 1.44 MB diskette drive / dust cover									
Systems management	<i>Serial</i> : Three 9-pin (one for Mgmt Processor); <i>Parallel</i> : One 25-pin; <i>USB</i> : Two Ver 1.1; <i>Keyboard</i> ; <i>Mouse</i> ; RS485 mgmt SVGA / PCI Bus C / S3® Trio-3D (on Input/Output Board) / 4MB SGRAM std/max / up to 1024x768 at 256 colors at 85Hz									
Diagnosics	Power-on password / administrator password / selectable boot / secure mode (disables keyboard and mouse) / systems mgmt security (user log-in password, read-only or read/write access, dial back) / unattended start mode									
Software	Netfinity Advanced System Mgmt Processor (service processor) / on planar / provides remote console and mgmt / power on/off system / monitors temperature, disks, fans, power supply									
Keyboard / mouse	128MB SDRAM 100MHz ECC DIMM (register) 33L3113									
Power supply	256MB SDRAM 100MHz ECC DIMM (register) 33L3115									
Fans	512MB SDRAM 100MHz ECC DIMM (register) 33L3117									
	1GB SDRAM 100MHz ECC DIMM (register) 33L3119									
	Netfinity 250W Hot-Swap Redund Power Sup 33L3760									
	Pentium III Xeon 550MHz/1MB Proc Upg II 33L5057									
	Pentium III Xeon 550MHz/2MB Proc Upg II 33L5058									
	Pentium III Xeon 700MHz/1MB Proc Upg II 10K2331									
	Pentium III Xeon 700MHz/2MB Proc Upg II 10K2332									
	Pentium III Xeon 900MHz/2MB Proc Upg II 19K4635									
	Netfinity 8Ux24D Tower-to-Rack Kit 37L6859									
	Netfinity 8Ux24D Rack-to-Tower Kit 37L6860									
	IBM Netfinity NetBAY3 10L6912									
	IBM Netfinity Rack 9306900									
Dimensions: H 13.8" x W 17.3" x D 27.6"; Weight: 91 to 120 lbs	<ul style="list-style-type: none"> Black color ACPI 1.0 Orange components and labels indicate hot-swap options Suppliers Declaration Slot 6* Vital Product Data Backup BIOS 									
Rack	<ul style="list-style-type: none"> Slot 1: full,64-bit 66MHz 3.3v PCI, not hot, Bus A Slot 2: full,64-bit 66MHz 3.3v PCI, not hot, Bus A Slot 3: full,64-bit 33MHz 5v PCI, <i>hot swap</i>, Bus B Slot 4: full,64-bit 33MHz 5v PCI, <i>hot swap</i>, Bus B Slot 5: full,64-bit 33MHz 5v PCI, <i>hot swap</i>, Bus B Slot 6*: full,64-bit 33MHz 5v PCI, <i>hot swap</i>, Bus B 									
Diskette	* Occupied by 64-bit ServeRAID adapter									
CD-ROM	<ul style="list-style-type: none"> Setup Program is available by pressing F1 at startup; Diagnosics (PC-Doctor) by pressing F2 at startup; CTRL+A for SCSISelect Utility Removeable top cover Access adapters, memory, CPUs from top Predictive failure analysis: alerts generated by Adv System Mgmt Processor for Netfinity Director for DIMM(s), processor(s),VRM(s), power supply(s), disk(s), and fans 									
HH 5.25"	<ul style="list-style-type: none"> Backplane A: 10 SL 3.5" bays or 7 HH 3.5" bays Disks not supported in 5.25" bays 									
HH 5.25"	<ul style="list-style-type: none"> • A1 • A2 • A3 • A4 • A5 • A6 • A7 • A8 • A9 • A10 									
Maximum internal disk capacity: 364GB ² with ten 36.4GB SL hot-swap SCSI disks	<p>LIMITED WARRANTY</p> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 24 hr / 7 day coverage, 4 hour average response⁷ time 24 hr / 7 day coverage, 2 hour average response⁷ time (in eligible locations) IBM Server Start Up Support IBM SystemXtra[®],¹⁶ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com) support IBM or reseller warranty/service 									

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No warranties are expressed or implied in this summary

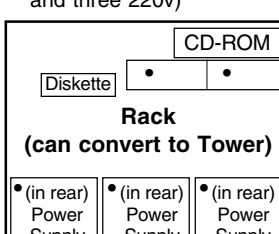
• = Hot Swap

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Withdrawn effective December 2000 or May 2001

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	8681-4RY	8681-5RY	8681-6RY
Mechanical	EIA 19" rack models (8U)⁴ x 28" deep		
Rack / conversion	Supported in Netfinity Enterprise Racks and current racks with extension options / kit available to convert rack to tower		
Disk - capacity	None / supports 10,000 rpm disks / interchangeable between 8500R and EXP200		
Disk - bays	Hot-swap / no trays included (disks ship with trays) / 80-pin SCA-2 connectors / common tray with 5600 and EXP200		
Avail / withdrawn date	Fourth quarter 1999 / Dec 2000	Fourth quarter 1999 / Dec 2000	September 1999 / December 2000
Intel® processor(s)	1 x Pentium® III Xeon™ 550/100MHz¹	1 x Pentium III Xeon 550/100MHz	1 x Pentium III Xeon 550/100MHz
L2 cache	512KB / full speed	1MB / full speed	2MB / full speed
Processor upgrade(s)	8-way SMP / up to eight Pentium III Xeon processors (same speed/cache size) / two 64-bit 100MHz processor buses		
Features	Standard: one Processor Board with four Intel Slot 2 sockets and six integrated VRMs (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) / Enablement Kits contain two filter cards and one Processor Board / if upgrading to 700MHz, need 'Mezzanine Exp Kit' with one Processor Board that requires 'Netfinity 4X Accelerator Filter' containing two 1MB Cache Coherency Filter Cards (one for each Processor Board)		
Memory - std / max	256MB / 32GB	512MB / 32GB	512MB / 32GB
Memory - std DIMMs	2 x 128MB DIMM	4 x 128MB DIMM	4 x 128MB DIMM
Memory - type	PC100-compliant 3.3v registered 168-pin SDRAM RDIMMs / 100MHz / gold connectors		
Memory - cards	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	Adaptec® AIC-7897 / no integrated RAID controller		All models: Maximum internal disk capacity: 72.8GB with two 36.4GB ² HH Hot-swap SCSI disks
SCSI channels	Two Wide Ultra2 SCSI channels (LVDS 80MB/sec)		
SCSI implementation	64-bit PCI / integrated on I/O Function Card		
SCSI connectors	One 68-pin connector internal and one .8mm VHDCI connector external / each channel supports up to 15 devices		
SCSI cabling	One 16-bit LVD cable to two bay backplane / one 16-bit LVD cable from controller to external 68-pin VHDCI connector		
IDE controller / cabling	Enhanced IDE controller in PIIX4E / one one-drop IDE cable from IDE controller to CD-ROM		
Architecture	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		
I/O Function Card	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		
Slots (Active PCI™)	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	No standard NIC controller or adapter		
CD-ROM / Diskette	CD-ROM: 40X-17X ⁶ CD-ROM / IDE interface off PIIX4E / 1.6" HH / bootable; Diskette drive: 3.5" 1.44MB / dust cover		
Ports	Two 9-pin serial / one 25-pin parallel / two USB / one keyboard / one mouse / one SVGA (all in rear)		
Graphics controller	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 / kybrd password / Advanced Remote Management security (user log-in password, read-only or read/write access, dial back)		
Systems management	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		
Diagnostics	Light-Path Diagnostics		Netfinity 128MB SDRAM DIMM (registered) II 20L0245
LCD information panel	Intelligent front panel / two 16 character lines of status info		Netfinity 256MB SDRAM DIMM (registered) II 20L0247
Software	ServerGuide™ - CD-ROM installation and configuration utilities. Lotus® Domino® Application Server Release 5 (Windows NT Version) plus five client licenses ¹⁸ , AntiVirus, and APC PowerChute Plus / includes Netfinity Manager and others		Netfinity 512MB SDRAM DIMM (registered) II 20L0249
Keyboard / mouse	None standard (since for rack)		Netfinity 1GB SDRAM DIMM (registered) II 33L3056
Power supplies	Hot-swap / redundant / std and max: three 750 watt at 220v or 550 watts at 110v / two can provide redundancy if operating at 220 volts / universal (voltage sensing) / fans in each power supply / each has individual power cord / PFA		Netfinity 8500R Memory Card (16 sockets) 28L4454
Fans	Six hot-swap redundant fans / three fans in front for cpu area / three fans in middle for memory and adapter area / PFA / fan failure signals Diagnostic LED and mgmt processor		Pentium III Xeon 550MHz/512KB Proc Upg 33L5103
			Pentium III Xeon 550MHz/1MB Proc Upg 33L5104
			Pentium III Xeon 550MHz/2MB Proc Upg 33L5105
			Pentium III Xeon 700MHz/1MB Proc Upg 10K2330
			Pentium III Xeon 700MHz/2MB Proc Upg 10K2166
			8500R >4-Way Enablement Kit (1X SRAM) 28L4730
			8500R >4-Way Enablement Kit (4X SRAM) 28L4727
			Netfinity Mezzanine Expansion Kit (four proc) 10K2337
			Netfinity 4X Accelerator Filter (two 1MB filters) 10K2335

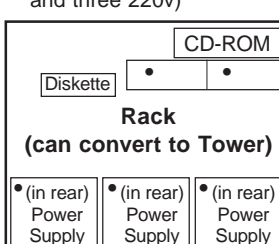
<ul style="list-style-type: none"> ⊗ Dimensions: H14.0" x W17.3" x D29.4"; 147-170lbs ⊗ Tool-free top, front, and rear access ⊗ Access adapters from top ⊗ Access memory, processors, and disks from front ⊗ Access power supplies from rear ⊗ Setup Program by pressing F1 at startup ⊗ Diagnostics (PC-Doctor) by pressing F2 at startup ⊗ Six power cords (9' each) included (three 110v and three 220v) 	 <p>Rack (can convert to Tower)</p> <ul style="list-style-type: none"> ⊗ Two 1.6" high HH 3.5" bays (both hot-swap) ⊗ Stealth black color ⊗ 4 removable handles ⊗ (If convert to tower) supports up to three NetBAY3 units on bottom ⊗ Wired for Mgmt 1.1a ⊗ DMI 2.0, ACPI 1.0 	<ul style="list-style-type: none"> Slot 1: fullsize, 64-bit 33MHz PCI, hot-swap, Bus 4 Slot 2: fullsize, 64-bit 33MHz PCI, hot-swap, Bus 4 Slot 3: fullsize, 64-bit 33MHz PCI, hot-swap, Bus 4 Slot 4: fullsize, 64-bit 33MHz PCI, hot-swap, Bus 4 Slot 5: fullsize, 64-bit 33MHz PCI, hot-swap, Bus 4 Slot 6: fullsize, 64-bit 66MHz PCI, hot-swap, Bus 13 Slot 7: fullsize, 64-bit 66MHz PCI, hot-swap, Bus 13 Slot 8: fullsize, 64-bit 66MHz PCI, hot-swap, Bus 10 Slot 9: fullsize, 64-bit 66MHz PCI, hot-swap, Bus 10 Slot 10: fullsize, 64-bit 33MHz PCI, hot-swap, Bus 0 Slot 11: fullsize, 64-bit 33MHz PCI, hot-swap, Bus 0 Slot 12: fullsize, 64-bit 33MHz PCI, hot-swap, Bus 0 Slot*: fullsize, 64-bit 33MHz PCI, not hot-sw, Bus 0 Slot**: fullsize, 32-bit 33MHz PCI, not hot-sw, Bus 0 <p>* used by I/O Function Card ** used by Advanced Remote Mgmt PCI Adapter</p> <ul style="list-style-type: none"> ⊗ Predictive failure analysis alerts on disks, power supplies, memory, processors, VRMs, and fans with Netfinity Manager 	<p>LIMITED WARRANTY</p> <ul style="list-style-type: none"> ⊗ 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: <ul style="list-style-type: none"> • 24 hr / 7 day coverage, 4 hour average response⁷ time • 24 hr / 7 day coverage, 2 hour average response⁷ time (in eligible locations) ⊗ "IBM Start Up Support" ⊗ IBM SystemXtra^{®16} ⊗ 24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com/server) support ⊗ IBM or reseller warranty/service
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• = Hot Swap

No warranties are expressed or implied in this summary
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IBM Netfinity® 8500R (Spring 2000) - withdrawn

IBM® Netfinity®:	Rack 1 x Pentium III Xeon 700MHz open bay	Rack 1 x Pentium III Xeon 700MHz open bay																												
Type - model	8681-7RY	8681-8RY																												
Mechanical	EIA 19" rack models (8U⁴) x 28" deep																													
Rack / conversion	Supported in NetBAY Enterprise Racks and current racks with extension options / kit available to convert rack to tower																													
Disk - capacity	None / supports 10,000 rpm disks / converged tray is interchangeable EXP200/300 and later Netfinity systems																													
Disk - bays	Hot-swap / no trays included (disks ship with trays) / 80-pin SCA-2 connectors / common tray with 5600 and EXP200																													
Avail / withdrawn	May 2000 / May 2001	May 2000 / May 2001																												
Intel® processor(s)	1 x Pentium® III Xeon™ 700/100MHz¹	1 x Pentium III Xeon 700/100MHz																												
L2 cache	1MB / full speed	2MB / full speed																												
Processor upgrade(s)	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																													
Features	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	512MB / 32GB	512MB / 32GB																												
Memory - std DIMMs	4 x 128MB DIMM	4 x 128MB DIMM																												
Memory - type	PC100-compliant 3.3v registered 168-pin SDRAM RDIMMs / 100MHz / gold connectors																													
Memory - cards	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	Adaptec® AIC-7897 / no integrated RAID controller	All models: Maximum internal disk capacity: 72.8GB with two 36.4GB ² HH Hot-swap SCSI disks																												
SCSI channels	Two Wide Ultra2 SCSI channels (LVDS 80MB/sec)																													
SCSI implementation	64-bit PCI / integrated on I/O Function Card																													
SCSI connectors	One 68-pin connector internal and one .8mm VHDCI connector external / each channel supports up to 15 devices																													
SCSI cabling	One 16-bit LVD cable to two bay backplane / one 16-bit LVD cable from controller to external 68-pin VHDCI connector																													
IDE controller / cabling	Enhanced IDE controller in PIIX4E / one one-drop IDE cable from IDE controller to CD-ROM																													
Architecture	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																													
I/O Function Card	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																													
Slots (Active PCI™)	12 hot-swap PCI slots ¹⁰ 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	No standard NIC controller or adapter																													
CD-ROM / Diskette	CD-ROM: 40X-17X ⁶ CD-ROM / IDE interface off PIIX4E / 1.6" HH / bootable; Diskette drive: 3.5" 1.44MB / dust cover																													
Ports	Two 9-pin serial / one 25-pin parallel / two USB / one keyboard / one mouse / one SVGA (all in rear)																													
Graphics controller	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)																													
Systems management	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 LM78 hardware monitor (voltage, temperature, fans)																													
Diagnostics	Light-Path Diagnostics / primary indicator on information panel with LEDs associated with failing components	<table border="0"> <tr><td>Netfinity 128MB SDRAM DIMM (registered) II</td><td>20L0245</td></tr> <tr><td>Netfinity 256MB SDRAM DIMM (registered) II</td><td>20L0247</td></tr> <tr><td>Netfinity 512MB SDRAM DIMM (registered) II</td><td>20L0249</td></tr> <tr><td>Netfinity 1GB SDRAM DIMM (registered) II</td><td>33L3056</td></tr> <tr><td>Netfinity 8500R Memory Card (16 sockets)</td><td>28L4454</td></tr> <tr><td>Pentium III Xeon 700MHz/1MB Proc Upg</td><td>10K2330</td></tr> <tr><td>Pentium III Xeon 700MHz/2MB Proc Upg</td><td>10K2166</td></tr> <tr><td>Pentium III Xeon 900MHz/2MB Proc Upg</td><td>19K4637</td></tr> <tr><td>Netfinity 8Ux28D Rack-to-Tower Conversn Kit</td><td>28L4705</td></tr> <tr><td>NetBAY3E (3U pedestal on bottom)</td><td>36L9701</td></tr> <tr><td>Netfinity Mezzanine Expansion Kit</td><td>10K2337</td></tr> <tr><td>Netfinity 4X Accelerator Filter (two 1MB filters)</td><td>10K2335</td></tr> <tr><td>Netfinity ServeRAID-4H Ultra160 SCSI Adapter</td><td>37L6889</td></tr> <tr><td>Netfinity EXP300 Storage Expansion Unit</td><td>35311RU</td></tr> </table>	Netfinity 128MB SDRAM DIMM (registered) II	20L0245	Netfinity 256MB SDRAM DIMM (registered) II	20L0247	Netfinity 512MB SDRAM DIMM (registered) II	20L0249	Netfinity 1GB SDRAM DIMM (registered) II	33L3056	Netfinity 8500R Memory Card (16 sockets)	28L4454	Pentium III Xeon 700MHz/1MB Proc Upg	10K2330	Pentium III Xeon 700MHz/2MB Proc Upg	10K2166	Pentium III Xeon 900MHz/2MB Proc Upg	19K4637	Netfinity 8Ux28D Rack-to-Tower Conversn Kit	28L4705	NetBAY3E (3U pedestal on bottom)	36L9701	Netfinity Mezzanine Expansion Kit	10K2337	Netfinity 4X Accelerator Filter (two 1MB filters)	10K2335	Netfinity ServeRAID-4H Ultra160 SCSI Adapter	37L6889	Netfinity EXP300 Storage Expansion Unit	35311RU
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LCD information panel	Intelligent front panel / two 16 character lines of status info																													
Software	ServerGuide™ - CD-ROM installation and configuration utilities, AntiVirus, and APC PowerChute Plus / includes IBM Director and others																													
Keyboard / mouse	None standard (since for rack)																													
Power supplies	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																													
Fans	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																													

<ul style="list-style-type: none"> ⇨ Dimensions: H14.0" x W17.3" x D29.4"; 147-170lbs ⇨ Tool-free top, front, and rear access ⇨ Access adapters from top ⇨ Access memory, processors, and disks from front ⇨ Access power supplies from rear ⇨ Setup Program by pressing F1 at startup ⇨ Diagnostics (PC-Doctor) by pressing F2 at startup ⇨ Six power cords (9' each) included (three 110v and three 220v) 	 <ul style="list-style-type: none"> ⇨ Two 1.6" high HH 3.5" bays (both hot-swap) ⇨ Stealth black color ⇨ 4 removable handles ⇨ (If convert to tower) supports up to three NetBAY3 units on bottom ⇨ Wired for Mgmt 1.1a ⇨ DMI 2.0, ACPI 1.0 	<ul style="list-style-type: none"> Slot 1: fullsize, 64-bit 33MHz PCI, hot-swap, Bus D Slot 2: fullsize, 64-bit 33MHz PCI, hot-swap, Bus D Slot 3: fullsize, 64-bit 33MHz PCI, hot-swap, Bus D Slot 4: fullsize, 64-bit 33MHz PCI, hot-swap, Bus D Slot 5: fullsize, 64-bit 33MHz PCI, hot-swap, Bus D Slot 6: fullsize, 64-bit 66MHz PCI, hot-swap, Bus C Slot 7: fullsize, 64-bit 66MHz PCI, hot-swap, Bus C Slot 8: fullsize, 64-bit 66MHz PCI, hot-swap, Bus B Slot 9: fullsize, 64-bit 66MHz PCI, hot-swap, Bus B Slot 10: fullsize, 64-bit 33MHz PCI, hot-swap, Bus A Slot 11: fullsize, 64-bit 33MHz PCI, hot-swap, Bus A Slot 12: fullsize, 64-bit 33MHz PCI, hot-swap, Bus A Slot*: fullsize, 64-bit 33MHz PCI, not hot-sw, Bus A Slot**: fullsize, 32-bit 33MHz PCI, not hot-sw, Bus A <p>* used by I/O Function Card ** used by Advanced Remote Mgmt PCI Adapter</p> <ul style="list-style-type: none"> ⇨ Predictive Failure Analysis® alerts on disks, power supplies, memory, processors, VRMs, and fans with IBM Director
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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 response⁷ time
 - 24 hr / 7 day coverage, 2 hour average response⁷ time (in eligible locations)
- ⇨ **"IBM Start Up Support"**
- ⇨ **IBM SystemXtra[®],¹⁶**
- ⇨ **24 hour / 7 day telephone¹⁴, fax, electronic, and Internet (www.pc.ibm.com/server) support**
- ⇨ **IBM or reseller warranty/service**

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• = Hot Swap

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¹ MHz and GHz only measures internal clock speed (or bus speed where indicated), not application performance. Many factors affect application performance.

² When referring to a hard drive capacity, GB equals one billion bytes, and TB equals one trillion bytes. Total user-accessible capacity depends on operating environment.

³ For terms and conditions or copies of IBM's limited warranty, call 1 800 772-2227 in the U.S. Limited warranty includes International Warranty Service in those countries where this product is offered. Telephone support may be subject to additional charges.

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.

⁷ Service levels are response time objectives and are not guarantees.

⁸ Subject to conditions.

⁹ Applications may vary from retail version and may not include all documentation or functions. Not all applications available separately. Titles subject to change without notice.

¹⁰ Updated drivers and hot-swap services for certain operating systems may be required to support PCI hot-swap functions.

¹¹ Available only on select Netfinity servers meeting predefined criteria, to include Netfinity 5500, 5500 M10, 5500 M20, 5600, 7000 M10 and 8500R only, having completed Microsoft Cluster Server certification as listed on ServerProven web site; IBM reserves the right to change the terms and conditions of the program at any time, without notice. For more details, refer to www.pc.ibm.com/us/solutions/netfinity/999guarantee.html or see your IBM PSG sales representative.

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.

¹⁴ Response time varies. May exclude some holidays. On-site service provided after IBM attempts to resolve the problem remotely.

¹⁵ Warranty and support for ServerProven solutions is provided by the manufacturer, not IBM.

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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.

¹⁸ Domino Server offer valid until December 31, 1999 and may vary by model. Check Netfinity web site for details.

¹⁹ Between January 1, 2000 and December 31, 2000, these Netfinity Servers include license entitlement for Lotus Domino Application Server R5, five Notes Collaboration Client licenses, and five web browser Client Access licenses at no additional charge.

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