

# IBM PC Server 300 (PCI/EISA Server)

IBM® PC Server:	PC Server 300		PC Server 300	
Type	8640-0Nx		8640-0Px	
Models	0N0	0NJ	0P0	0PT
Disk - individual size	<b>None</b>		<b>None</b>	
Disk - speed	N/A		N/A	
Price (retail USD)	\$ 2,499	\$ 3,099	\$ 3,899	\$ 4,999
Available date	June 1994		June 1994	
Processor / MHz	<b>486DX2 - 66/33 MHz</b>		<b>Pentium - 60 MHz</b>	
Processor upgrade(s)	① IntelDX4 at 100/33 MHz ② P24T (Intel® Pentium™ OverDrive™)		① P5T (Pentium OverDrive)	
Upgrade method	Remove standard CPU from 237 pin ZIF socket (Intel® Socket 3)		Remove standard CPU from 273 pin ZIF socket	
L2 cache - std / max	256 KB / 256 KB		256 KB / 512 KB	
L2 cache - method	Soldered DIP modules		Upgrade to 512 KB via 8 DIP modules	
L2 cache - write policy	All: Write-back (organization: direct mapped; 15 ns)			
Memory - std / max	8 MB / 128 MB		16 MB / 192 MB	
Mem - total sockets / avail	4 sockets / 2 available		6 sockets / 4 available	
Memory - speed / pins	All: 70 ns / 72 pin			
Mem - supported SIMMs	All: 70 ns speed only (supports 4, 8, 16, 32 MB parity SIMMs)			
Memory - type	All: Parity / all memory must be installed in matched pairs / all memory addressable by DMA			
Memory	Matched pairs reqd due to interleaved memory		Matched pairs required due to 64 bit path to memory	
Disk controllers	① Enhanced IDE on PCI bus (2 drops) PIO modes 0, 1, 2, 3 ② Enhanced IDE on ISA bus (2 drops) PIO modes 0, 1, 2		① Enhanced IDE on ISA (2 drops) PIO modes 0, 1, 2 ② SCSI-2 Fast Adapter on PCI bus ② Enhanced IDE on ISA (2 drops) PIO modes 0, 1, 2	
Controller transfer rates	All: 11 MB/sec across Enhanced IDE interface (16 bit) if used with Mode 3 disks Mode 0 = 3.3 MB/sec / Mode 1 = 5.2 MB/sec / Mode 2 = 8.3 MB/sec / Mode 3 = 11.1 MB/sec All: Disks greater than 528 MB only support PIO Mode 0 on ISA based IDE controller All: Maximum 10 MB/sec across Fast SCSI bus (8 bit) All: Maximum 132 MB/sec to PCI (32 bit) for Enhanced IDE and SCSI-2			
Controller implementation	All: Enhanced IDE controller(s) on planar / SCSI-2 Fast Adapter in PCI slot		All: Maximum internal disk capacity: If have SCSI-2 adapter: 14 GB with seven 2 GB SCSI-2 disks;	
SCSI controller channels	All: One (maximum of 7 SCSI devices internal or external)		486DX2 models allow four 1 GB IDE for a max of 4 GB (SCSI optional)	
Cntrlr cache - std / max	All: IDE has no cache / SCSI-2 Fast PCI has no cache (32 byte FIFO buffer)			
Architecture	All: <b>PCI</b> (2 slots) / <b>PCI/EISA</b> shared slot (1 slot) / <b>EISA</b> (5 slots)			
Architecture features	All: PCI maximum transfer rate is 132 MB/sec; EISA maximum data transfer rate is 33 MB/sec			
32 bit slots / available	All: 8 slots (all 32 bit) / 6 or 7 slots available (VGA adapter in one slot; OPT has SCSI-2 in one slot; see below)			
Bays / available	All: 9 bays / 7 or 8 available (one used for diskette; one used for disk; see diagram below)			
Diskette drive	All: 3.5" 1.44 MB diskette drive / dust cover / media sense / supports 3.5" 2.88 MB and 5.25" 1.2 MB (2 diskette max)			
Serial port	All: Two 9 pin serial port / DMA support / UART 16550A / 115.2 Kbps maximum supported speed			
Parallel port	All: One parallel port / DMA support / bidirectional / supports ECP/EPP protocols adhering to IEEE 1284 standard			
Video - controller / vendor	All: VGA / Cirrus Logic™ (adapter is a dumb frame buffer)		Supports 640 x 480 with 256 colors or 800 x 600 with 16 colors	
Video - arch / data path	All: ISA / 16 bit (in 32 bit EISA adapter slot) / 512 KB DRAM memory			
Security	All: Power switch behind door / selectable boot (A: and C: only) / keyboardless and displayless operation			
Power-on password	All: No (because power switch behind locked door)			
Cover key lock	All: Front door keylock (no keylock to lock system cover)			
U Bolt support	All: Yes			
Preloaded software	All: None (no operating system ships standard) / fast startup mode			
BIOS	All: 128 KB in Flash EEPROM on the planar board (Phoenix™ BIOS) / upgrades free of charge (via diskette)			
Keyboard / mouse	All: IBM Quiet (rubber dome) 101 key / no mouse ships standard			
Power supply	All: 300 watt / universal / manual switch setting / built in overload, surge protection			
Systems management	All: QAPLus/PRO ships standard / Optional NetFinity™ software			

## PC SERVER BAYS

	5.25" HH (access)	] or Full Height
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	5.25" HH (access)	] or Full Height
	5.25" HH (access)	
diskette	3.5" SL (access) for diskette only	] or Half Height
Optional diskette/tape std disk	3.5" SL (access)	
	3.5" SL (no access)	

FH: Full Height bay (up to 3.2")  
 HH: Half Height bay (up to 1.6")  
 SL: Slim Line bay (up to 1")

Slot 1: fullsize, 32 bit PCI  
 Slot 2: fullsize, 32 bit PCI  
 Slot 3: fullsize, 32 bit PCI or EISA or 16 bit ISA  
 Slot 4: fullsize, 32 bit EISA or 16 bit ISA  
 Slot 5: fullsize, 32 bit EISA or 16 bit ISA  
 Slot 6: fullsize, 32 bit EISA or 16 bit ISA  
 Slot 7: fullsize\*, 32 bit EISA or 16 bit ISA  
 Slot 8: fullsize\*, 32 bit EISA or 16 bit ISA  
 (Slot 3: occupied by PCI SCSI-2 Adapter in model OPT)  
 (Slot 4: occupied by VGA adapter)  
 (\* = Pentium models support halfsize adapters)  
 FloThru™ air flow design utilizing two fans, a heat sensing speed control, and full length front venting to allow electronics and drive components to run cooler for longer life  
 EISA Configuration Utility is on the EISA Configuration Diskette  
 CTRL+ALT+S = Setup Utility at startup or within any application

QAPLus/PRO™ is graphical software for diagnostic and testing included with PC Server

## HELPWARE for PC SERVER 300 WARRANTY SERVICE SUPPORT

- ↪ 3 year warranty (international)
- ↪ On site warranty all 3 years
- ↪ All cities in all states
- ↪ 8 am - 5 pm Mon - Fri coverage
- ↪ Next day response time
- ↪ Option to upgrade warranty to: 24 hr / 7 day coverage, 4 hr response for \$40 per year
- ↪ 24 hour / 7 day telephone, bulletin board, fax, and electronic support
- ↪ IBM or dealer warranty/service
- ↪ 30 day money back guarantee