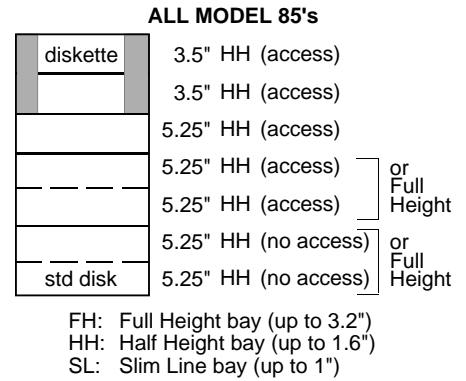


IBM® PS/2®:		Server 85 433	Server 85 466
Type	9585-xKx	9585-xNx	
Models	0KG 0KT	0NG 0NT	
Disk - individual size	540 MB	1 GB	
Disk - speed	8.7 ms	8.6 ms	
Price (retail USD)	\$ 4,260 ↘	\$ 4,725 ↘	\$ 4,925 ↘ \$ 5,390 ↘
Available date	Nov 93	Nov 93	Nov 93 Nov 93
Processor / MHz	486DX - 33 MHz		486DX2 - 66/33 MHz
Processor upgrade(s)	All: ① 486DX2 at 66/33 MHz ② P24T (Intel® Pentium™ OverDrive™ processor expected in 1994)		
Upgrade method	All: Remove standard CPU from 238 pin ZIF or LIF socket		
L2 cache - std / max	128 KB / 256 KB	256 KB / 256 KB	
L2 cache - write policy	All: Write-back (organization: 2 way set associative)		
L2 cache - method	All: One SIMM socket (already occupied by standard L2 cache)		
Memory - std / max	All: 8 / 256 MB / 64 bit path to memory		
Memory - speed / pins	All: 70 ns / 72 pin		
Mem - supported SIMMs	All: 70 ns speed only (supports 2, 4, 8, 16, 32 MB parity SIMMs; does NOT support ECC SIMMs)		
Mem - total sockets / avail	All: 8 sockets / 6 available (so two 4 MB parity SIMMs are standard)		
Memory - type	All: ECC-P / parity memory with Error Checking and Correction memory controller (see explanation below)		
Disk controller	All: SCSI-2 Fast/Wide (with streaming)		All: Maximum disk capacity:
Controller transfer rates	All: 40 MB/sec to MCA (32 bit); 20 MB/sec on SCSI bus (16 bit)		Internal: 10 GB with five 2 GB SCSI-2 disks
Raid levels in controller	All: None (use software)		Internal and external: 56 GB
Controller implementation	All: 32 bit busmaster controller on planar		
Controller channels	All: Two (one channel internal for 5 devices since 5 SCSI bays; one channel external. Maximum of 7 SCSI devices total either mixed on both channels or on one channel.		
Cntrlr cache - std / max	All: None / none		
Architecture	All: Micro Channel®		
Architecture features	All: 40 MB/sec streaming data transfer / 32 bit, 16.5 MHz DMA / Subsystem Control Block enabled / Synchronous Channel Check support		
32 bit slots / available	All: 8 slots (all 32 bit) / 7 slots available (SVGA adapter in one slot)		
Bays / available	All: 7 bays / 5 available (one used for diskette; one used for disk; see diagram above)		
Diskette drive	All: 2.88 MB 3.5" diskette drive / dust cover / media sense to correctly format, read, write 1, 2, and 4 MB diskettes		
Serial port	All: One 9 pin serial port / DMA support / UART 16550A / 345.6 KBps maximum supported speed		
Parallel port	All: One parallel port / DMA support / bidirectional / supports 100 KBps maximum supported speed		
Video - controller / vendor	All: SVGA / IBM (adapter is a dumb frame buffer)		All: Vital Product Data (VPD) enabled for unique ID (model/submodel); Type/model/serial number; Planar serial number; Manufacturing ID; Planar FRU number; Planar part number.
Video - arch / data path	All: Micro Channel / 16 bit (in 32 bit adapter slot)		
Video - memory std/max	All: 512 KB / 512 KB (DRAM memory)		
Security	All: C2 security enabled with LogicLock™ (LogicLock is a term for all security features)		
Tamper evident cover	All: Yes Tamper evident cover: an attempted break in or attempting to short out power-on password without cover key		Privileged-access password: ① restricts access to system programs; ② stops system after a POST error also restricting access to system programs; ③ prohibits unauthorized modifications to hardware; ④ works with tamper evident cover switches to prevent unauthorized operation after a forced entry.
Privileged-access passwd	All: Yes		
Power-on password	All: Yes		
Cover key lock	All: Yes		
U Bolt support	All: Yes		
Security options	All: Cable Cover 4 / Enhanced 2.88 MB diskette drive with electronic eject and removable media security		
3 MB System Partition	All: Yes (diagnostics, Reference Diskette on disk)		
Preloaded software	All: None (no operating system or mouse ships standard) / fast startup mode / selectable boot		
BIOS	All: 256 KB in Flash EEPROM on the planar board (SurePath™ BIOS) / upgrades free of charge (via diskette)		
Keyboard	All: Choice of three keyboards (Enhanced 101 key, 84 key, host 122 key)		
Power supply	All: 288 watt / universal / manual switch setting / built in overload, surge protection / remote and timed power on		
Systems management	All: Optional PS/2 ServerGuard™ (a Micro Channel adapter) to locally or remotely control, tune, and recover a NetWare 3.11 server; works on system console, any LAN PC, or modem anywhere in world		



MODEL 85 MEMORY CONTROLLER

- Error Checking and Correcting (ECC) memory controller is standard.
- This automatically corrects any single bit errors on the fly (98% of memory errors are single bit); all 2 bit errors are found which halt system; some 3 and 4 bit errors are found which halt system; single bit errors are not logged (call provided for future logging by operating system), but multiple bit errors are logged in Non Volatile Random Access Memory (NVRAM).
- Uses normal parity SIMMs; hence in ECC-P, the "P" means Parity. So the additional cost of ECC memory SIMMs is not needed.
- ECC-P detection and correction takes place in the memory controller rather than in the memory SIMM as on the Base 3 and 4 Processor Complex of the Model 95. If the ECC is enabled, it will cause up to a 14% performance degradation compared to the more efficient Base 3 and 4 Processor Complex (Model 95) which is only 3%. This performance degradation is only for the memory subsystem, not for the total throughput.
- ECC capability can be turned on or off without changing any hardware, memory, switches, or opening the cover; enabled or disabled via menus on the System Partition (Ref Diskette).
- 64 bit memory transfer (Two Way Banked Memory Interleave) for increased performance (when SIMMs installed in pairs); 32 bits go into the 486 and 32 bits go into memory buffer latch. The 64 bit path uses 8 bit correction information for ECC function.
- Memory SIMMs must be installed in pairs of the same size, speed and type. (Older Model 85 with 486SX allowed use of single SIMM).

SVGA ADAPTER VIDEO MODES

Resolution	Frame Rate (Hz)	Max colors/gray shades
640 x 480	60, 72, 75 (NI)	256 / 256
800 x 600	56, 60 (NI)	256 / 256
1024 x 768	43.5 (I)	16 / 16

PS/2 WARRANTY SERVICE SUPPORT

- **3 year warranty**
- **On site warranty all 3 years**
- **All cities in all states**
- **24 hour / 7 day service coverage**
- **4 hour response time**
- **24 hour / 7 day telephone support**
- **24 hour / 7 day bulletin board**
- **24 hour / 7 day fax support**
- **IBM or dealer warranty/service**
- **30 day money back guarantee**