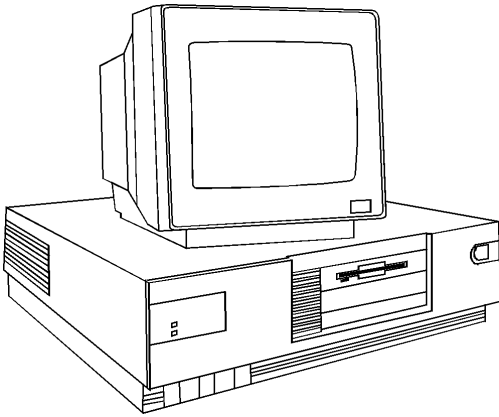


**PowerMate 386/33i, SX/16i, 20i, 20vi, 25i**



NEC PowerMate 386/33i, SX/16i, 20i, 20vi, 25i

**Specifications**

**Processor**

- **386/33i:** Intel 386 33MHz,
- **386/SX/16i:** 386SX 16MHz
- **386/SX/20vi, SX/20i:** Intel 386SX 20MHz
- **386/SX/25i:** 386SX 25MHz

**Memory**

- **386/33i:**  
4MB standard, expands to 64MB,
- **SX/16i, SX/20vi, SX/20i, SX/25i:**  
2MB standard, expands to 26MB

**I/O Expansion Slots**

- Four 8/16 bit slots

**Diskette Drive**

- 1.2MB, 5.25" or 1.44MB, 3.5" standard

**Integrated Features**

- Diskette and IDE drive controller
- PS/2 Enhanced keyboard and Mouse
- One Parallel port
- One RS-232C serial port
- On board video

**Internal Expansion Bays**

- One 5.25" user accessible bay
- One 5.25" slim 1.6" user accessible bay
- One 3.5" internal bay
- One 3.5" slim 1.6" internal bay

**I/O Architecture (Bus s supported)**

- Industry Standard Architecture (ISA)

**Power Supply**

- 110 Watt

**Diagnostics**

- Normal Post Diags performed on Power UP of system.
- For Advanced Diags use a PC Diagnostic Utility.
- Troubleshoot according to errors found during test.

**CMOS Access**

- QAPIus/FE

**Tools and Software Requirements**

- 1/4" Flat bladed screwdriver
- 2 PT Phillips screwdrivers
- T-15 Torx screwdriver
- Needle nose pliers
- Diags and formatted blank diskette
- Anti-static wrist strap

**Jumper/Switch Settings**

**SW1 SWITCH SETTINGS**

Switch	Setting	Function
1	ON OFF *	Turns off built in VGA Turns on built in VGA
2	ON OFF *	Turns off built in diskette controller Turns on built in diskette controller
3	ON OFF *	Turns off password feature Turns on password feature
4	ON OFF *	Disallows BIOS changes Allows BIOS reprogramming

\* Default

**System Board Jumpers**

**(For PowerMate 386/33i Only)**

Jumper	Setting	Function
JP7	1-2 2-3 *	Printer port LPT1, IRQ5 Printer port LPT1, IRQ7
JP8	1-2 * 2-3	Intel coprocessor installed Weitek coprocessor installed

\* Default

**Multi-Sync Graphics Engine Settings**

Jumper	Setting	Function
JP1	Jumped* Unjumped	Composite sync on green External vertical/horizontal sync
JP2	Jumped* Unjumped	One video card in computer Dual video cards in computer

\* Default

**Removal Procedures**

Before beginning removal complete the following steps:

1. Turn off the computer and any peripheral devices.
2. Disconnect AC power cord from outlet and system.
3. Disconnect all peripheral devices from the computer.
4. Discharge any static with static strap to chassis.

**System Cover**

How to remove the cover:

1. Unlock the cover if locked.
2. Turn the cover release with a coin or slotted screwdriver so that the slot is in the vertical position.
3. Slide the cover toward the front of the unit.
4. To remove, lift the cover up and off.

**Special Notices:**

- Upgrading the 486SX/25i to 486/33i needs no main board change just a jumper change using J8.

**Field Replaceable Units**

Memory	OEM Part	IBM Part
<b>386/33i:</b>		
4MB @ 1MB X 36 SIMM	136-261977-705A	48H6416
1MB @ 1MB X 9 SIMM	158-053409-002	61H6763
16MB @ 4MB x 36 SIMM	158-082222-000	67H9767
4MB @ 1MB X 36 SIMM	158-053409-003	48H7042
16MB @ 4MB X 36 SIMM	158-053409-004	67H9767
ESDI cache memory	158-050334-140	47H9480

## Field Replaceable Units (Continued)

Memory	OEM Part	IBM Part
<b>SX/16i, 20vi, 20i, 25i:</b>		
1MB @ 1MB x 9 SIMM	158-082066-080	61H5863
2MB @ 2MB x 9 SIMM	158-050294-002	61H6760
4MB @ 4MB x 9 SIMM	158-082182-000	48H7041
8MB @ 8MB x 9 SIMM	158-053380-000	61H6762

Controller	OEM Part	IBM Part
ESDI caching controller	158-050334-130	47H9479
SCSI host adapter	09600158	93F6145

Internal Hard Drive	OEM Part	IBM Part
45MB, 3.5", IDE HD	134-500988-099O	67H9045
100MB, 3.5", ESDI HD	134-500571-159O	67H9043
120MB, 3.5", IDE HD	158-053437-002	67H9753
140MB, 5.25", ESDI HD	136-006632-620A	67H9102
240MB, 3.5", IDE HD	158-053437-003	67H9754

System Boards	OEM Part	IBM Part
G8KGC-386/33i	158-026115-002A	20H9514
G8KAR/G8KGF- SX/16i	158-026110-002A	67H9656
G8KAR/G8KGF- SX/20vi	158-026110-102A	67H9657
SX/20i - System Board	158-026114-002B	48H6990
G8KAQ/G8KGN- SX/25i	158-026114-100A	67H9661

Processors	OEM Part	IBM Part
Intel 80386SX/16	136-008420-707A	47H8602

CD-ROM Drives	OEM Part	IBM Part
CD-ROM, Portable, CDR-36-XT	03377103	55H1675
CD-ROM, External, CDR-73-XT	03377100	67H7726
CD-ROM, Internal, CDR-83-XT	03377101	67H7727
CD ROM, External, CDR-73M	09600704	67H8008

Tape Drives	OEM Part	IBM Part
40MB, 5.25", tape drive	158-053116-003	47H9599
150MB, 5.25", tape drive	158-053208-001	47H9600

Diskette Drives	OEM Part	IBM Part
5.25", 1.2MB Floppy	136-009598-420A	47H8616
3.5", 1.44MB Floppy	134-505642-206O	48H6251

Cables	OEM Part	IBM Part
HD IDE signal cable	158-050383-000	66H7460
5", Floppy signal cable	808-840655-014A	67H2179
5", ESDI HD, signal cable	808-840656-005A	67H2180
ESDI HD data cable	808-840069-017A	67H2173
HD/FD DC power cable	136-009534-221A	66H6827
Keyboard / mouse cable	136-260131-603A	66H6894
ST506, 5", HD data cable	808-840069-011A	67H2171

Miscellaneous	OEM Part	IBM Part
ISA backboard- 386/33i	158-026123-000A	20H9541
ISA backboard *	158-026106-000C	67H9654
Battery 3.6v	158-060155-000	20H9490
Drive Fan	808-864027-034A	37H8748
Power supply (110 Watt)	808-891039-001A	20H9522
NEC PS/2 style mouse	158-053512-000	65H9766

\* Use with SX/16i, SX/20vi, SX/20i, SX/25i