



Figure 1. NEC Image P90E/100E Series

Specifications

Processor

- Intel Pentium 90 or 100mhz

Memory

- 16 or 32MB standard, expands to 256MB

I/O Expansion Slots

- Three EISA/ISA expansion slots
- One PCI bus expansion slot
- One shared EISA or PCI expansion slot.

Diskette Drive

- 1.44MB drive standard

Integrated Features

- Integrated 32-bit-BLT graphic accelerator
- 16KB primary cache
- Fast SCSI-2 host adapter
- Diskette drive interface
- System I/O controller
- Mouse and Keyboard
- Enhanced parallel port
- Two serial ports

Feature Options

- Secondary Processor 90 or 100 Mhz
- 4x CD ROM reader

Internal Expansion Bays

- One 3.5" user accessible slot.
- Two 3.5" internal storage slots
- Three 5.25" user accessible storage slots

I/O Architecture (Bus s supported)

- PCI/EISA

Power Supply

- 260 Watt

Diagnostics

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

CMOS Access

- QAPlus/FE

Tools and Software Requirements

- Phillips head screwdriver
- Needle nose pliers
- Diags and formatted blank diskette
- Anti-static wrist strap

Jumper/Switch Settings

System Board

Jumper	Setting	Function
J33	1-2	Primary cache for one processor
	2-3	Primary cache for dual processors
J34	1-2	Pipeline setting for one processor
	2-3	Pipeline setting for dual processors
J39	1-2	Voltage regulator setting for P100E
	2-3	Voltage regulator setting for P90E

SW4 Switch Settings

Switch	Setting	Function
SW4-1	ON	Clears CMOS
	OFF *	Normal operation
SW4-2	ON	90/60MHz (Image P90E)
	OFF	100/66MHz (Image P100E)
SW4-3	OFF *	Reserved
SW4-4	ON	Password cleared
	OFF *	Normal operation

* 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. Ground yourself to discharge any static build-up.

System Cover

How to remove the cover:

1. Unlock the system unit cover if locked.
2. Remove the four cover screws on the rear of the unit.
3. Slide the cover toward the rear about one inch.
4. Lift the cover up and off to remove

Special Notices

- CD-ROM's Pin 1 is located next to power plug on the rear of the CD-ROM drive.
- NEC IDE drives are always shipped as Master and setup as the only drive installed.
- Set IDE CD-ROM to slave if used with a IDE Drive.
- All storage devices must have 5-1/4" bracket for installation except external 3-1/2" (A:) floppy bay.

Memory Configurations

Notice:

1. There is 4 banks (B0-B3) containing two sockets.
2. Different size SIMMs may be placed in any bank provided, each bank have same size SIMMs.
3. Each memory bank must have same speed SIMMs.

Field Replaceable Units

Memory	OEM Part	IBM Part
256KB Secondary Cache	158-082497-000	61H6125
Memory Expansion Board	158-026175-000A	61H6128
4MB @ 1MB X 36 SIMM	158-053409-008	37H8767
8MB @ 2MB X 36 SIMM	158-053409-009	37H8768
16MB @ 4MB X 36 SIMM	158-053409-010	37H8769
32MB @ 8MB X 36 SIMM	158-053409-011	37H8770

Internal Hard Drive	OEM Part	IBM Part
540MB, IDE HD	158-050395-322	71H0400
1.0GB, IDE HD	158-050395-330	61H6061
2.0GB, SCSI-2 HD	158-050395-335	61H5791

System Boards	OEM Part	IBM Part
90MHz Bd. with heat-sink	158-026174-000A	61H6126
100MHz Bd. With heat-sink.	158-026174-100A	61H6127

Processors	OEM Part	IBM Part
Dual 90MHz w/heat-sink	158-053796-000	61H6129
Dual 100MHz w/heat-sink	158-053796-001	61H6130

Diskette Drives	OEM Part	IBM Part
3.5", 1.44MB Floppy	808-870954-101A	37H8753

CD-ROM Drives	OEM Part	IBM Part
4x IDE CD ROM reader	158-050817-000	37H8763

Cables	OEM Part	IBM Part
Floppy signal cable	158-050578-001	66H7477
SCSI-2 cable, 6 devices	158-050510-003	66H7468
IDE signal cable	158-050562-002	66H7475
Floppy signal cable	158-050561-000	55H1052

Miscellaneous	OEM Part	IBM Part
RTC battery module	158-082351-000	37H8543
NEC PS/2 style mouse	158-050484-002	55H1100
AC Power cord	808-857649-101A	22H0531
Cover lock and key	158-050705-003	61H7417
Top cover	158-050705-001	74H3378
Power supply (260W)	158-050552-000	37H8539
LED/Reset switch assembly	158-050705-002	61H7406
Fan assembly	158-050705-014	61H5856
Keyboard PS/2 style	158-050707-000	37H8765