

IBM PS/2 (Model 80) - Technical Specifications

IBM Personal System/2 Model 80



General information

Machine type: 8580

Announce date: April 2, 1987

Excerpt from the original announcement letter;

"The Personal System/2 Model 80 (IBM 8580) enhances the System/2 family of systems by offering a new level of performance in personal computing for both commercial and compute-intensive environments. This system is highlighted by the new MICRO CHANNEL(TM) ARCHITECTURE with a 16 MHz 80386 32-bit microprocessor, high density memory technology, and a wide range of integrated features. With the capability of supporting up to 16 Mb of high speed (80 ns) real memory, over 140 Mb of disk storage, advanced graphics, and an optional 16 MHz 80387 Math Co-Processor, this system opens up a wide range of application opportunities. Designed to meet the requirements of the multitasking environment, the IBM 8580 provides a full 32-bit large system architecture and function within an individual workstation. Its increased speed and high reliability coupled with a wide selection of connectivity options provide the function required to support large server, gateway or multiuser applications."

System characteristics

Microprocessor: Intel 80386 (32 bit, "DX" processor)

Clock speed: 16 MHz (041, 071), 20Mhz (1xx models), 25Mhz (Axx models)

Coprocessor: socket for optional i80387 math coprocessor

Type of BUS: 16/32-bit Micro Channel (0xx/1xx models include 3 32-bit slots, Axx include 4 32-bit slots)

Total number of expansion slots: 8 (floor standing tower case)

Ports: PS/2 keyboard, PS/2 mouse, serial, parallel, VGA

Memory

Min/Max on system board: 1/4MB (expandable to 16MB with memory options)

Type of memory:

RAM: DRAM (PS/2 8580 module) 80ns parity checked (2 sockets)

ROM: 128kb

Cache: 0kb (0xx), 0kb (1xx), 64kb SRAM L2 cache (Axx only)

Physical description

Power supply: 225w (242w Axx models), 110-220VAC auto sense, auto-restart

Weight: 23.6 Kg (52 lbs.) (8580-041)

Dimensions (HxWxD): (597 x 166 x 483mm)

Mass storage

Drive bays: 5/6 (4 3.5" half-height (2 accessible), 1 5.25" full height (or 2 3.5" HH))

Floppy Disk

Size: 3.5 inch half-height

Capacity: 1.44MB

Hard disk

Size: 3.5 inch half-height or 5.25" full height

Capacity: 44MB, 70MB, 115MB, 314MB, 120MB, 320MB

Access time: 40ms, 30ms, 28ms, 23ms, 23ms, 12.5ms

Interface: ST-506 (44MB), ESDI (70MB, 115MB, 314MB), SCSI (120MB, 320MB)

Display

Size:

Display type: Optional Analog CRT

Graphics modes supported: Integrated VGA Display adapter

320x200, 256 colours

640x480, 16 colours

Keyboard

Type: 101 key enhanced

Software

Operating system: IBM PC DOS Versions 3.30 or higher

Configurations

Various memory, diskette drive, hard drive, monitor, and keyboard configurations including;

8580-041 - System unit 386-16, 1MB RAM, 44MB hardfile, 1.44MB, 101 keyboard

8580-071 - System unit 386-16, 1MB RAM, 70MB hardfile, 1.44MB, 101 keyboard

8580-111 - System unit 386-20, 2MB RAM, 115MB hardfile, 1.44MB, 101 keyboard

8580-121 - System unit 386-20, 2MB RAM, 120MB SCSI hardfile, 1.44MB, 101 keyboard

8580-321 - System unit 386-20, 2MB RAM, 320MB SCSI hardfile, 1.44MB, 101 keyboard

8580-A21 - System unit 386-25, 4MB RAM, 120MB SCSI hardfile, 1.44MB, 101 keyboard

8580-A31 - System unit 386-25, 4MB RAM, 320MB SCSI hardfile, 1.44MB, 101 keyboard

Options

IBM Personal System/2 4MB System Board Memory Expansion Kit (Axx only)(6451060)

IBM Personal System/2 Enhanced 80386 Memory Option (34F2811)

IBM Personal System/2 4MB Memory Module Kit (#3933) (34F2933)

IBM Personal System/2 80386 Memory Expansion Option (#3019) (6450367)

IBM Personal System/2 80386 Memory Expansion Kit (#3064) (6450372)

IBM Personal System/2 2-8MB 80386 Memory Expansion Option (6450605)
IBM Personal System/2 1MB Memory Module Kit-85ns (6450603)
IBM Personal System/2 2MB Memory Module Kit-85ns (6450604)
IBM Personal System/2 4MB Memory Module Kit (34F2933)
IBM PS/2 SCSI Fixed Disk Drive Kit A (6451053) (converts 5.25" bay to 2 x 3.5" bays)
IBM Personal System/2 320MB SCSI Fixed Disk Drive (6451055)
IBM Personal System/2 Micro Channel SCSI Adapter (6451005)
IBM Personal System/2 Micro Channel SCSI Adapter with Cache (6451018)
IBM Personal System/2 Micro Channel SCSI Adapter External Terminator
IBM Personal System/2 CD-ROM Drive (6450845)
IBM Personal System/2 CD-ROM Drive Kit A (6450847)
IBM Personal System/2 External CD-ROM Drive (3510-001)
IBM 3363 Internal Optical Disk Drive
Personal System/2 1.44MB Diskette Drive (#6450353)
Personal System/2 Mouse (#6450350)
Personal System/2 Dual Async Adapter/A (#6450347)
Personal System/2 Multi-Protocol Adapter/A (#6450348)
Personal System/2 300/1200 Internal Modem/A (#6450349)
Personal System/2 Monochrome Display 8503 (8503001)
Personal System/2 Color Display 8512 (8512001)
Personal System/2 Color Display 8513 (8513001)
Personal System/2 Color Display 8514 (8514001)
Personal System/2 5.25-inch External Diskette Drive Adapter/A (#6450245)
Personal System/2 3117 Adapter/A (#65X1925)
Personal System/2 High Speed Adapter/A (RS-422A)(#65X1905)
IBM 6157 Tape Drive Adapter (#92X1458)
Personal System/2 Display Adapter 8514/A (#1887972)
Personal System/2 8514 Memory Expansion Kit (#1887989)
IBM 3270 Connection (#83X9702)
System 36/38 Work Station Emulation for the Personal System/2 /A Installation Convenience Kit Version 1.0 (#69X6287)
System 36/38 Work Station Emulation for the Personal System/2 /A Adapter & Quick Reference (#69X6279)
Personal System/2 PC Network Baseband Adapter/A (#1501223)
Personal System/2 PC Network Adapter II/A (#1501222)
Personal System/2 Token-Ring Network Adapter/A (#69X8138)
Personal System/2 Data Migration Facility (#1501224)
Plus many more IBM and 3rd party adapter cards...
Note: Options may not be available from IBM.