



Power Macintosh 8500 Series

Features

High performance

- 120-MHz PowerPC 604 processor, user upgradable to faster processor when available (up to 150 MHz)
- Built-in floating-point processor and 32K cache
- 256K level-2 cache on a DIMM

Communications and multimedia

- 64-bit VRAM graphics subsystem
- Two high-speed serial ports compatible with GeoPort and LocalTalk cables
- Quadruple-speed CD-ROM drive
- 16-bit stereo audio input and output
- 24-bit composite and S-video input and output
- Support for speech-recognition and text-to-speech capabilities
- Optimized for QuickTime Conferencing software

Expandability

- Three industry-standard PCI expansion slots
- SCSI connector for hard disks, CD-ROM drives, and other SCSI devices
- Internal expansion bay for additional hard disk drive

Compatibility

- 10Base-T and AAUI Ethernet connectors
- Open Transport networking software (TCP/IP and AppleTalk)
- Runs 680x0 Macintosh applications as well as applications accelerated for Power Macintosh computers
- Allows you to open and use MS-DOS 6.0 and Windows 3.1 documents and disks
- Runs MS-DOS and Windows applications via SoftWindows software (not included)

System 7.5 software

- Makes working with different applications consistent, so they're easier to learn and use
- Allows easy customization of your Macintosh to reflect the way you work
- Provides active assistance in learning new features with Apple Guide

If your profession demands a high-performance, expandable computer that can handle any media as easily as text, the Apple Power Macintosh 8500/120 system is for you.

Featuring a new Power Macintosh architecture with even greater multimedia capabilities than previous models, the 8500/120 is the system of choice for in-house publishing, media authoring, and technical applications.

Built-in video input and output capability of near-broadcast quality, high-resolution graphics (up to 1,280 by 1,024 pixels), and CD-quality stereo sound add vitality to professional projects and let you explore new computer-enabled applications. For example, the Power Macintosh 8500/120 supports the capture of quarter-screen video in real time. Combine this capability with Apple's QuickTime software, and media authoring has never been easier.

Three Peripheral Component Interconnect (PCI) slots let you take advantage of a wide range of high-performance expansion cards.

Because PCI is an industry standard, you can find inexpensive PCI cards for a variety of uses, including video compression, video production, and high-speed networking. Many PCI cards include the necessary software to work with Macintosh systems.

With a PowerPC 604 RISC processor running at 120 megahertz that you can upgrade yourself when faster versions become available, the Power Macintosh 8500/120 offers high-end PowerPC technology now—with plenty of room to grow later.

Power Macintosh 8500 systems run most applications written for 680x0-based Macintosh computers, as well as applications that have been accelerated to take advantage of their PowerPC processors. By adding SoftWindows software from Insignia Systems, you can also run MS-DOS and Windows applications, enabling the 8500 to fit into almost any computing environment.

The Power Macintosh 8500/120: Exceptional performance for handling even the most complex computing tasks and enhancing your



creativity.

Power Macintosh 8500 Series

Technical Specifications

Ordering Information

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Power Macintosh 8500/120 configuration*

- Power Macintosh 8500/120 computer with 16MB of RAM, a built-in 1.4MB Apple SuperDrive floppy disk drive, an internal 1GB or 2GB hard disk drive, an internal quadruple-speed CD-ROM drive, and a PlainTalk microphone

Power Macintosh GeoPort Telecom Adapter Order No. M3127LL/A

* All configurations include mouse; system software version 7.5.2; eWorld on-line service software; complete setup, learning, and reference documentation; and limited warranty.

Product specifications are subject to change.

Check with your Apple reseller for the most current information about product specifications and configurations.

Upgradable microprocessor

- PowerPC 604 microprocessor running at 120 MHz, upgradable to a higher-speed processor when available
- Integrated floating-point unit, 32K cache, and three integer units
- High-speed system bus (up to 50 MHz)

Memory

- 16MB of RAM, expandable to 512MB via 8 DIMM sockets
- 256K level-2 cache on a DIMM
- 4MB of ROM

Disk drives

- Internal 1GB or 2GB Fast SCSI hard disk
- Internal Apple SuperDrive floppy disk drive
 - Accepts high-density 1.4MB disks and 800K disks
 - Reads, writes, and formats Macintosh, Windows, MS-DOS, OS/2, and ProDOS disks
- Internal AppleCD 600i quadruple-speed CD-ROM drive
- Expansion bay for additional 3.5-inch hard disk

Interfaces

- Three PCI expansion slots compatible with PCI 2.0-compliant cards (Note: These slots are not NuBus-compatible)
- Two high-speed DMA serial (RS-232/RS-422) ports compatible with LocalTalk and GeoPort cables
- 10Base-T and AAUI-15 Ethernet connectors
- Internal Fast SCSI bus (up to 10MB/s)
- External SCSI bus (up to 5MB/s)
- Apple Desktop Bus (ADB) expansion port
- RCA phono jacks for line-level stereo audio input and output
- Mini jacks for stereo audio input and output
- All sound ports support 16-bit audio and up to 44.1-kHz sampling rate
- DB-15 connector for monitor
- Composite connectors (RCA phono jacks) for composite video input and output
- S-video input and output connectors
- Internal digital audio/video (DAV) connector for video compression/decompression cards

Video input/output subsystem

- 24-bit video input
 - Real-time video playthrough of up to 640 by 480 pixels with NTSC; 768 by 576 pixels with PAL and SECAM
 - Up to 320- by 240-pixel capture at 25 frames per second with NTSC (with 2GB drive)
 - Maximum capture size of 640 by 480 pixels with NTSC
- 24-bit video output
 - Support for NTSC and PAL
 - Convolution for flicker reduction at all bit depths

Graphics support

- 2MB of VRAM, expandable to 4MB
- Fast 64-bit data path to VRAM
- Support for display resolutions of up to 1,280 by 1,024 pixels
- 24-bit color up to 1,152- by 870-pixel resolution
- Refresh rate of up to 75 Hz

GeoPort telephony*

- 14.4-Kbit/s modem support
- V.17 fax support
- GeoPort Fax and GeoPort Telephony software included
- Speakerphone and answering-machine capability

Clock/calendar

- Custom integrated circuit with long-life battery

Keyboard and mouse

- Supports ADB keyboards with numeric keypads
- Comes with an ADB Mouse II

Electrical requirements and compliance

- Line voltage: 100 to 240 V AC, RMS single phase, automatically configured
- Frequency: 50 to 60 Hz, single phase
- Power: 225 W maximum, not including display
- Energy Star compliant

ADB power requirements

- Maximum current draw for all devices: 500 mA (a maximum of three ADB devices is recommended)
- Mouse draws 10 mA
- Keyboard draws 25 to 80 mA (varies with keyboard used)

Size and weight

- Height: 14 in. (35.6 cm)
- Width: 7.7 in. (19.6 cm)
- Depth: 15.75 in. (40.0 cm)
- Weight: 25 lb. (11.3 kg)

Operating environment

- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 ft. (3,048 m)

* Requires GeoPort Telecom Adapter