



Tech Info Library

Power Macintosh 8500/150 & 8500/180: Specifications (12/96)

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Security: Everyone

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TOPIC -----

This article contains the technical specifications for the Power Macintosh 8500/150 and 8500/180 series computers.

IMPORTANT: Another article in the Tech Info Library title, "Power Macintosh 8500/132 & 8500/150: Specifications" contains information about the previous 8500/150 configuration.

DISCUSSION -----

Upgradable microprocessor

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- * 150-MHz PowerPC 604 or 180-MHz PowerPC 604e microprocessor, upgradable to a higher-speed processor when available (up to 250 MHz)
- * Integrated floating-point unit, 32K cache for 8500/150 and 64K cache for 8500/180, and three integer units
- * High-speed system bus (up to 50 MHz)
- * Upgradability (up to 250 MHz)

Memory

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- * 16 MB or 32 MB of RAM, expandable to 512 MB via 8 DIMM sockets
- * 4 MB of ROM
- * 256K level 2 cache

Disk drives

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- * Internal 1.2 GB or 2 GB 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 8x-speed CD-ROM drive
- * Expansion bay for additional 3.5-inch hard disk

Interfaces

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- * Three PCI expansion slots compatible with PCI 2.0-compliant cards
- * Two high-speed DMA serial (RS-232/RS-422) ports compatible with LocalTalk and GeoPort cables
- * 10BASE-T and AAUI-15 Ethernet connectors; optional PC Compatibility Cards provide multinode support for simultaneous network connections
- * 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

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- * 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

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- * 2 MB of VRAM, expandable to 4 MB
- * 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 (Requires GeoPort Telecom Adapter)

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

Clock/calendar

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- * Custom integrated circuit with long-life battery

Keyboard and mouse

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

Electrical requirements

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- * Line voltage: 100 to 125/200 to 240 V AC, RMS single phase, automatically configured
- * Frequency: 50 to 60 Hz, single phase
- * Power: 225 W maximum, not including display

ADB power requirements

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- * 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

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- * 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)

Environmental requirements

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

Article Change History:

10 Dec 1996 - Corrected information about 150 MHz 604 processor.

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