



Tech Info Library

Power Macintosh 7600 Series: Technical Specifications (10/96)

Revised: 2/17/97
Security: Everyone

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TOPIC -----

This article contains the technical specifications for the Power Macintosh 7600 series computers.

DISCUSSION -----

Upgradable microprocessor

- =====
* PowerPC 604 microprocessor running at 120 or 132 MHz, upgradeable to a higher-speed processor when available (up to 250 MHz)
* Integrated floating-point unit and 32K cache
* High-speed system bus (up to 50 MHz)

Memory

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

Disk drives

- =====
* Internal 1.2GB 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 quadruple-speed or 8x-speed CD-ROM drive, depending on configuration
* Expansion bay for additional 3.5-inch hard disk

Interfaces

- =====
* 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 10 MB/s)
- * External SCSI bus (up to 5 MB/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
- * S-video input connector
- * Internal digital audio/video (DAV) connector for video compression/decompression cards

Video Input

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- * 24-bit video input
- * Real-time video playthrough of up to 640 by 480 pixels with NTSC; 768x576 pixels with PAL and SECAM
- * Up to 320x240-pixel capture up to 15 frames per second with NTSC
- * Maximum capture size of 640x480 pixels with NTSC

Audio System

- * Custom sound circuitry, including stereo generator (digital-to-analog converter, or DAC)—capable of driving stereo miniplug headphones or audio equipment—and stereo sampling hardware (analog-to-digital converter, or ADC) for recording stereo sound
- * 16-bit stereo input and output
- * Sample rates of 44.1 and 22.05 kilohertz (kHz)
- * Input line level: 2 volts peak-to-peak nominal, into 6.5-Kilohm (k) impedance
- * Output line level: 2.2 volts peak-to-peak nominal, into 1 k impedance
- * Input through output SNR** : >74 decibels (dB) typical
- * Bandwidth: 10 Hz-19 kHz (+/- 2 dB) at 44.100 kHz sample rate
- * THD+N** : Less than 0.06%; measured 30 Hz-16 kHz with a 2-Vpp sine wave input
- **SNR is signal-to-noise ratio; THD+N is total harmonic distortion plus noise.

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 1,280x1,024 pixels
- * 24-bit color up to 1,152x870-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 and compliance

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- * Line voltage: 100 to 240 V AC, RMS single phase
- * Frequency: 50 to 60 Hz, single phase
- * Power: 150 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: 6.15 in. (15.6 cm)
- * Width: 14.37 in. (36.5 cm)
- * Depth: 16.93 in. (43.0 cm)
- * Weight: 22 lb. (9.97 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 47 degrees C)
- * Relative humidity: 5% to 95% noncondensing
- * Maximum altitude: 10,000 ft. (3,048 m)

Article Change History:

- 15 Oct 1996 - Added additional processor speed.
- 19 Sep 1996 - Updated processor card support speed.
- 17 Sep 1996 - Updated information.

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