



# Tech Info Library

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

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TOPIC -----

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

DISCUSSION -----

### Upgradable microprocessor

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- \* 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

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- \* 16 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 1.2GB 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

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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 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

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- \* 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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