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Macintosh Performa 6116CD: Technical Specifications (7/95)

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TOPIC -----

This article gives the technical specifications for the Macintosh Performa 6116CD computer.

NOTE:

Because of differences in bundling and configuration, other Macintosh Performa 6100 series computers are not included in this article. See the article titled "Performa 6100 Series: Specifications" for information about these other models.

DISCUSSION -----

Microprocessor

- 60-MHz PowerPC 601 RISC Processor

Memory

- 4 MB ROM
- 256 bytes of non-volatile parameter memory
- 8 MB of RAM standard, expandable to 72 MB
- 2 SIMM slots (1 pair)
- 80 ns (nanosecond) SIMMs or faster
- SIMMs can be 4 MB, 8 MB, 16 MB or 32 MB, but must be installed in pairs of the same size. For example, you should install two 8 MB SIMMs in first two adjoining slots.
- Possible RAM configurations are 8, 16, 24, 40 and 72 MB.
- L2 Cache Slot for Optional 256K Macintosh Cache Card

RAM note: All 8MM RAM configurations come with 8MB of RAM soldered onto the logic board

Form Factor

- Modular desktop enclosure (similar to Quadra 610, 660av enclosure)

Disk Drives

- One Built-in Apple SuperDrive 1.4 MB floppy disk drive that uses high-density floppy disks and reads, writes, and formats Macintosh, MS-DOS, OS/2, and ProDOS disks.
- Support for one internal one-third, 5.25-inch height SCSI devices, one of which may be used for removable media, such as an internal CD-ROM drive.
- One 700 MB internal one-third height hard disk
- Internal Apple CD-ROM drive; AppleCD 300i drive
- Optional external SCSI hard disk drive (many capacities available)

Video Display

- Comes with Performa Plus 14 Display
- DRAM based video: 16 bit on 14-inch monitors, 8 bit on 16-inch monitors. DRAM based video is not expandable. (The table below details support for specific monitors.)
- VRAM based video: No VRAM video support or expansion.

Monitor:	Resolution:	Colors or Grays:
12-inch Color	512 by 384	thousands
12-inch Monochrome	640 by 480	256
13-inch or 14-inch Color or VGA	640 by 480	thousands
15-inch Portrait Monochrome	640 by 870	256
16-inch Color	832 by 624	256
Multiple Scan 15 Display	640 by 480	thousands
Multiple Scan 15 Display	832 by 624	256

Note: Built-in video (HDI-45 with 640K DRAM support) doesn't support any monitor with a resolution greater than 832 by 624. To use a larger monitor (19-inch, 20-inch, or 21-inch), a third-party video card or the AV card must be used.

Interfaces

- One internal Nubus 90 PDS slot. Support block transfers to and from main memory, 2x block transfers card to card. There is a NUBUS adapter for the Power Macintosh 6100. A NuBus card Requires an adapter card & bracket. There is only one slot, so it supports one PDS card OR one NuBus card.
- One Apple Desktop Bus (ADB) port, supporting a keyboard, mouse, and other devices.
- One AAUI-15 Ethernet connector.
- Two serial (RS-232/RS-422) ports.
(1 Printer/LocalTalk, 1 Modem, both support GeoPort)
- SCSI interface for connecting up to a total of seven SCSI devices.
- Sound output port for stereo compact disc audio and stereo computer-generated sound.
- Sound input port for stereo sound input (supports 16-bit stereo audio)
- One AV Display Connector supports the Apple AudioVision 14 Display. The bundled Video Adapter Cable (Part #M2681LL/A) allows you to connect a monitor with a standard DB-15 connector to your Power Macintosh built-in video.
- One internal 601 PDS (processor direct slot)
- One internal L2 (Level 2) cache slot

Audio System

- 16-bit stereo in and out
- Sample rates of 48, 44.1, 24, 22.05 kilohertz (kHz)
- Input line level: 1 volt peak-to-peak
- Output line level: 1 volt peak-to-peak
- Input SNR (signal-to-noise ratio): 82 decibels (dB) with no audible discrete tones
- Output SNR: 85 dB with no audible discrete tones
- Bandwidth: 20 Hz-20 kHz (+/- 2 dB) at 44.100 kHz sample rate
- THD+N (Total harmonic distortion plus noise): Less than 0.05 percent; measured 20 Hz-20kHz with a 1-Vrms sine wave input.

Networking

- Built-in Ethernet
- Serial port for AppleTalk
- Integrated GeoPort telecommunications architecture for data, fax, and voice connectivity.

Keyboard

- AppleDesign keyboard included

Mouse

- Apple Desktop Bus Mouse II

Clock/Calendar

- CMOS custom chip with long-life lithium battery.

Apple PlainTalk Microphone (optional)

- The microphone is unidirectional and optimized for use with speech recognition.

Modem

- Comes with TelePort/Gold II for Performa from Global Village Communications: 14,400-bps send and receive fax and 14,400-bps send and receive data.

Electrical Requirements

- Line voltage: 100 to 240 VAC, RMS single phase, automatically configured
- Frequency: 50 to 60 hertz, single phase
- Power Supply Output Rating (Power available for internal devices)
 - Continuous output 86W
- A/C Line Input (Power drawn by the Power Macintosh 6100/60)
 - Maximum continuous 132W

ADB Power Requirements

- Maximum current draw for all ADB devices: 500 milliamps (a maximum of three Apple Desktop Bus devices is recommended)
- Mouse draws 10 milliamps.
- Keyboard draws 25 to 80 milliamps, depending on the keyboard model used.

Size and Weight

Main unit

- Height: 3.4 inches (8.5 cm)
- Width: 16.3 inches (41.5 cm)
- Depth: 15.6 inches (39.7 cm)
- Weight*: 14.0 pounds (6.4 kg)

*Weight varies based on internal devices installed

Mouse

- Height 1.3 inches (33 mm)
- Width 2.4 inches (61.7 mm)
- Depth 4.2 inches (107.3 mm)
- Weight 4 ounces (0.10 kg)

Operating Environment

- Operating temperature: 50 degrees to 104 degrees F (10 degrees to 40 degrees C)
- Storage temperature: -40 degrees to 116.6 degrees F (-40 degrees to 47 degrees C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 ft. (3,048m)

Software

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System software

- Mac OS System 7.5.1 with Apple Guide, AppleScript and PC Exchange included

Third-party software bundle

- At Ease
- ClarisWorks
- MacLink Plus/Easy Open Translators
- MacGallery Clip Art Treasure Pak
- Now Contact
- Spin Doctor Challenge
- TelePort Modem Legend Tour
- eWorld Tour
- American Heritage Dictionary
- Quicken
- Click Art Performa Collection
- Now Up-To-Date
- Spectre Challenger
- TelePort Gold II for Mac Performa
- eWorld

CD bundle

- 3D Atlas
- Club KidSoft Sample
- The Family Doctor
- 1995 Groiler's MM Encyclopedia
- TIME Almanac Reference Edition
- Around the World in 80 Days

Article Change History:

24 Jul 1995 - Added note about other 6100 series computers

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