



# Tech Info Library

## Performa 6100 Series: Specifications (8/95)

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TOPIC -----

This article gives the technical specifications for the Macintosh Performa 6100 series computer.

The following computers are in the Macintosh Performa 6100 series: Performa 6110, Performa 6112, Performa 6115, Performa 6117, and Performa 6118.

### NOTE:

Because of differences in bundling and configuration, the Macintosh Performa 6116CD is not included in this article. See the article titled "Macintosh Performa 6116CD: Technical Specifications" for information about the Macintosh Performa 6116CD.

DISCUSSION -----

### Microprocessor

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- 60-MHz PowerPC 601 RISC Processor

### Memory

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- 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

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- 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 internal one-third height hard disk (250, 350, and 500 MB depending on model)
- Internal Apple CD-ROM drive; AppleCD 300i drive
- Optional external SCSI hard disk drive (many capacities available)

## Video Display

- Comes with Apple Multiple Scan 15 Display: 15-inch RGB Color Monitor color display, maximum 832-pixel by 624-pixel resolution with Performa 6100 series computer, 0.28-mm dot pitch, noninterlaced. Includes built-in Stereo speakers.
- 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.

## Begin\_Table

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.

## End\_Table

## 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

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- 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

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

#### Keyboard

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- Several Apple Desktop Bus keyboards with numeric key pads available.

#### Mouse

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- Apple Desktop Bus Mouse II; mechanical tracking, optical shaft, or contact encoding.

#### Clock/Calendar

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- CMOS custom chip with long-life lithium battery.

#### Apple PlainTalk Microphone (optional)

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

#### Disability Access

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- Easy Access, and visible beep included with system software. These built-in

features and third-party options provide alternative input and output tools for people with disabilities.

#### Modem

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- 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.

#### Begin Table

##### Electrical Requirements

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- 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
  - Peak input                                      201W

#### End\_Table

##### ADB Power Requirements

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- 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

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##### 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

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- 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)

System Software

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System 7.5 operating system software preinstalled

Article Change History:

- 14 Aug 1995 - Added formatting for improved viewing on the Internet.
- 24 Jul 1995 - Added note about Performa 6116CD
- 12 Dec 1994 - Reviewed for technical accuracy for top 20 keyword.

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