



# Tech Info Library

## Power Macintosh 6100/60: Description (Discontinued)

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TOPIC -----

The Power Macintosh 6100/60 is a high performance Macintosh model incorporating the new PowerPC 601 RISC processor.

DISCUSSION -----

### Overview

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The Power Macintosh 6100/60 and Power Macintosh 6100/60AV are the most affordable members of the new high-performance line of Macintosh computers that use the revolutionary PowerPC chip technology. With this technology, they deliver the performance that business and education users demand while maintaining the legendary Macintosh ease of use and the ability to run virtually all existing Macintosh applications.

In addition, Power Macintosh computers run applications written to take advantage of Power Macintosh capabilities at two to six times the speed of previous Macintosh computers based on the 040 chip. Both computers also support MS-DOS and Windows applications when using SoftWindows software.

Based on the 60-megahertz PowerPC 601 microprocessor co-developed by Apple, IBM, and Motorola, the Power Macintosh 6100/60 and 6100/60AV both have built-in, floating-point math coprocessors and come with 8 megabytes of RAM, expandable to up to 72 megabytes. They also provide on-board high-speed Ethernet support.

Both computers support most Apple and third-party displays, including monochrome, color, VGA, and SVGA. The 6100/60AV supports 32,000 colors on all Apple displays and also supports NTSC and PAL monitors.

Both computers can easily be expanded. The Power Macintosh 6100/60 has eight built-in ports and one expansion slot. The Power Macintosh 6100/60AV has eleven built-in ports and supports a second simultaneous display.

Support for GeoPort telecommunications (integrating your phone and your computer), speech-recognition, and text-to-speech capabilities is built into both computers (PlainTalk software and microphone required). The 6100/60AV adds S-video and composite video input as well as output for use with televisions, video cameras, and video recorders.

The Power Macintosh 6100/60 and Power Macintosh 6100/60AV provide an affordable gateway to Power Macintosh technology—and the future of personal computing.

#### Power and Speed

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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
- SIMMs can be 4 MB, 8 MB, 16 MB or 32 MB, but must be installed in pairs of the same size AND speed. For example, you should install two 8 MB SIMMs in first two adjoining slots.
- Possible RAM configurations are 8 MB, 16 MB, 24 MB, 40 MB, and 72 MB.
- 80 ns SIMMs or faster
- L2 Cache Slot for Optional Macintosh Cache Card

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

#### Display

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- New 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.
- DRAM based video: 16 bit on 14-inch monitors, 8 bit on 16-inch monitors. 640k of DRAM based video is not expandable.
- VRAM based video: No VRAM video support or expansion.

#### Audio System

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- Custom sound circuitry, including stereo generator capable of driving stereo miniplug headphones or audio equipment. Also includes stereo sampling hardware for recording samples.

#### Expansion

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- Eight built-in ports to support a wide range of peripherals
- One 601 PDS (Processor Direct Slot)
- One NuBus 90 Slot for additional expansion cards Accomodates one 7-inch NuBus card when the optional Power Macintosh 6100 NuBus Adapter Card (Part #M2337LL/A) is installed.
- Optional internal CD-ROM drive (such as AppleCD 300i Plus)

#### System software

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- System 7 for Power Macintosh with multitasking, file sharing, QuickTime, Balloon Help, TrueType, and more

## Networking

- Built-in AppleTalk networking
- File sharing without a dedicated server
- On-board Ethernet networking

## Compatibility

- Reads Macintosh, MS-DOS, and OS/2 floppy disk formats

## What's in the box:

Each unit includes a power cord, keyboard cable, mouse, microphone, and system software.

System software includes System 7.1.2 for Power Macintosh, System Enabler, Color Macintosh Basics, AppleScript 1.1, QuickTime 1.6.2, and HyperCard Runtime 2.2.

System software shipped on a bootable CD-ROM, the "Install Me First CD" which can double as a rescue disk.#

Documentation included with the Power Macintosh 6100/60:

- Power Macintosh Getting Started
- Technical Information
- Macintosh Reference
- AppleCD 300i Plus User's Guide#

# - CD-ROM and AppleCD 300i Plus User's Guide bundled with configurations which include an internal CD-ROM drive.

## Configurations and Ordering Information:

- Power Macintosh 6100/60
  - Power Macintosh 6100/60 computer with 8MB of RAM, built-in 1.4MB Apple SuperDrive, internal 160MB hard disk drive and Power Macintosh Display Adapter: Order No. M2196LL/A
  - With 8MB of RAM, 250MB hard disk, and internal CD-ROM drive: Order No. M1878LL/A
  - With 16MB of RAM, 250MB hard disk, and SoftWindows software: Order No. M3078LL/A
- Power Macintosh 6100/60av
  - Power Macintosh 6100/60av computer with 8MB of RAM, 2MB of VRAM, built-in 1.4MB Apple SuperDrive, internal 250MB hard disk, internal CD-ROM drive, and two S-video to composite video adapters: Order No. M2738LL/A
- Power Macintosh GeoPort Telecom Adapter  
Order No. M3127LL/A
- PlainTalk for Power Macintosh: Includes PlainTalk software and the PlainTalk microphone (required for speech recognition and text-to-speech)

capabilities). Order No. M2844LL/A

- Power Macintosh 6100 NuBus Adapter Card (Part #M2337LL/A)  
This card gives you the ability to plug in a 7-inch NuBus expansion card. There are dozens of such NuBus cards available to enhance your computer's capability in areas like video, networking and performance. You can find these cards at your local Apple Authorized Dealer.

Note: This card will not work with the Power Macintosh 6100/60AV, since the slot it plugs into is already loaded with the video I/O card.

- Power Macintosh Cache Card (Part #M2385LL/A)  
This card enhances performance by providing a large block of very fast memory for the processor to access directly. Use it to get optimum system performance.
- Macintosh Memory Expansion Kits  
Adding DRAM allows you to run more applications simultaneously. It also increases overall system performance. All models of the Power Macintosh 6100 have two DRAM SIMM slots (Single In-line Memory Module). These must both be filled with the same size SIMMs; i.e. two 4MB SIMMs, two 8MB SIMMs, two 16MB SIMMs or two 32MB SIMMs (16MB and 32MB SIMMs available from third-party vendors).
  - 4MB (1-4MB SIMM)  
Order No. M1507LL/A
  - 8MB (1-8MB SIMM)  
Order No. M1508LL/A
- Video Adapter Cable (Part #M2681LL/A)  
This cable allows you to connect a monitor with a standard DB-15 connector to your Power Macintosh built-in video. This cable is offered as an option for the Power Macintosh 6100/60AV only; it comes standard with every Power Macintosh 6100/60.

Article Change History:

- 29 Aug 1995 - Added information about DRAM video.
- 13 Jun 1995 - Reviewed for technical accuracy.
- 06 Jun 1994 - Updated information on Apple software included

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