



# Tech Info Library

## Power Macintosh 7100/66: Description (Discontinued)

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TOPIC -----

The Power Macintosh 7100/66 is a performance Macintosh model incorporating the new PowerPC 601 RISC processor.

DISCUSSION -----

### Overview

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The Power Macintosh 7100/66 and Power Macintosh 7100/66AV are the expandable, mainstream members of the new high-performance line of Macintosh computers based on PowerPC chip technology. They're built with the speed, expandability, and networking capabilities that business people require for word processing, desktop publishing, and working with complex spreadsheets and databases.

Although they use fast new technology, these computers run virtually all existing Macintosh applications. In addition, Power Macintosh computers run applications written for Power Macintosh at two to six times the speed of previous Macintosh computers. And the 7100/66 and 7100/66AV can run 10 to 25 percent faster than the Power Macintosh 6100/60 computer. Both computers can also run MS-DOS and Windows applications using SoftWindows software.

Based on the 66-megahertz PowerPC 601 microprocessor codeveloped by Apple, IBM, and Motorola, the Power Macintosh 7100/66 and 7100/66AV both have built-in, floating-point math coprocessors. They also provide built-in, high-speed Ethernet networking.

Both computers support all Apple and most third-party displays, including monochrome, color, VGA, and SVGA. Support for up to 32,000 colors on Apple color displays (up to 16- or 17-inch) is included with the 7100/66. The 7100/66AV (and the 7100/66 with the addition of 1 megabyte of VRAM) supports display of more than 16 million colors.

Both computers feature easy expandability via three NuBus slots, and you can run two simultaneous displays with each.

GeoPort telecommunications capabilities can integrate both computers with your phone, and both feature speech-recognition and text-to-speech capabilities

(PlainTalk microphone and software required to utilize these features). The 7100/66AV adds S-video and composite video input as well as output for use with televisions, video cameras, and video recorders.

For high-performance and expandability in a platform that's built for the future, the Power Macintosh 7100/66 and Power Macintosh 7100/66AV are designed to meet your needs.

#### Power and Speed

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- 66-MHz PowerPC 601 RISC Processor
- Integrated floating-point unit and 32K cache

#### Memory

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- 4 MB ROM
- 256 bytes of non-volatile parameter memory
- 8 MB of RAM standard, expandable to 136 MB
- 4 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, 24 MB, 40 MB, 72 MB, and 136 MB.
- 80 ns SIMMs or faster
- L2 Cache Slot for Optional Macintosh Cache Card

RAM note: All 8MM 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. A 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.
- 1 MB of VRAM standard, upgradeable to 2 MB

#### 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)
- Three NuBus 90 Slots for additional expansion cards
- 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, 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 7100/66:

- 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 7100/66:
  - Power Macintosh 7100/66 computer with 8MB of RAM, 1MB of VRAM, built-in 1.4MB Apple SuperDrive, and internal 250MB hard disk:  
Order No. M2464LL/A
  - With 8MB of RAM, 250MB hard disk, and internal CD-ROM drive:  
Order No. M2465LL/A
  - With 16MB of RAM, 250MB hard disk, and SoftWindows software:  
Order No. M3077LL/A
- Power Macintosh 7100/66AV:
  - Power Macintosh 7100/66AV computer with 8MB of RAM, 2MB of VRAM, built-in 1.4MB Apple SuperDrive, internal 500MB hard disk drive, internal CD-ROM drive, and two S-video to composite video adapters:  
Order No. M2467LL/A
- Macintosh VRAM Expansion Kit (2-256K SIMMs) Order No. M5953LL/A  
Note: This upgrade does not apply to the Power Macintosh 7100/66 AV which is already configured with its full complement of 2MB VRAM.
- Power Macintosh GeoPort Telecom Adapter

Order No. M3127LL/A

- PlainTalk for Power Macintosh: Includes PlainTalk software and the PlainTalk microphone (required to utilize text-to-speech and speech recognition features). Order No. M2844LL/A
- 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.
- DRAM upgrades: All models of the Power Macintosh 8100 have eight DRAM SIMM slots (Single In-line Memory Module). SIMMs can be 4 MB, 8 MB, 16 MB or 32 MB, but must be installed in pairs (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. You can use it if you want to connect an additional display (other than the Apple AudioVision 14) to your computer.

Article Change History:

- 13 Jun 1995 - Reviewed for technical accuracy.
- 17 May 1994 - Updated to clarify PlainTalk requirements and remove unavailable configurations and products.
- 11 Mar 1994 - Reclassified for public access.

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