



# Tech Info Library

## Power Macintosh 8100/110: Description (11/94)

Article Created: 02 November 1994

TOPIC -----

The Power Macintosh 8100/110 is the highest performance Macintosh incorporating the PowerPC 601 RISC processor.

DISCUSSION -----

### Overview

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The Apple Power Macintosh 8100/110 computer sets a new Macintosh speed and performance standard, which is tremendous news for publishers, engineers, and multimedia professionals.

This computer runs virtually all Macintosh applications. In addition, it runs applications accelerated for Power Macintosh computers at two to six times the speed of previous Macintosh computers.

The 8100/110 computer can also run MS-DOS and Windows applications using SoftWindows software, available from Insignia Systems.

The Power Macintosh 8100/110 based on the PowerPC 601 microprocessor co-developed by Apple, IBM, and Motorola. The Power Macintosh 8100/110 runs at a breathtaking 110 megahertz.

The 8100/110 computer supports all Apple and most third-party displays, including monochrome, color, VGA, and SVGA. It will support up to 16.7 million colors on Apple color displays of up to 17 inches. With the addition of 2 megabytes of VRAM (to total 4 megabytes), the 8100/80 and 8100/110 support 16.7 million colors on displays of up to 21 inches.

The Power Macintosh 8100/110 computer is easy to expand because it includes three NuBus slots. The Power Macintosh 8100/110 also provide GeoPort telecommunications, which allows you to integrate it with telephone services.

The Power Macintosh 8100/110 computer is designed to meet the most demanding power, speed, and expandability requirements of publishing, engineering, and multimedia customers.

Power and Speed

- 
- 110-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
  - 16 MB of RAM standard, expandable to 264 MB
  - 8 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, 40 MB, 72 MB, 136 MB and 264 MB.
  - 80 ns SIMMs or faster
  - L2 Cache Slot with preinstalled Macintosh Cache Card

#### Display

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- New AV Display Connector supports the Apple AudioVision 14 Display. A Video Adapter Cable (Part #M2681LL/A) is available as an option to allow connecting an additional monitor with a standard DB-15 connector to your Power Macintosh built-in video.
  - Works with all Apple monitors as well as third-party displays including VGA and SVGA.
  - 2 MB of VRAM standard, upgradeable to 4 MB on the PDS card with standard DB-15 monitor connector

#### 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

- 
- System 7.5 for Power Macintosh with multitasking, file sharing, QuickTime, Balloon Help, TrueType, and more

#### Networking

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

#### Compatibility

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

#### What's in the box:

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

software.

System software includes System 7.5 for Power Macintosh, Color Macintosh Basics, AppleScript 1.1, QuickTime 2.0, 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 8100/80:

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

Configurations and Ordering Information:

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Power Macintosh 8100/110\*

- Power Macintosh 8100/110 computer with 16MB of RAM, 2MB of VRAM, a built-in 1.4MB Apple SuperDrive floppy disk drive, an internal 2GB hard disk drive, an internal AppleCD 300i Plus CD-ROM drive, and a PlainTalk microphone:  
Order No. M3561LL/A
- Power Macintosh GeoPort Telecom Adapter  
Order No. M3127LL/A
- 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 through third-party vendors).
  - 4MB (1-4MB SIMM)  
Order No. M1507LL/A
  - 8MB (1-8MB SIMM)  
Order No. M1508LL/A
- Power Macintosh 8100 VRAM upgrade kit (Part M1311LL/A)  
Adding VRAM increases the number of colors which can be displayed on large monitors. For example, adding VRAM to the Power Macintosh 8100/80 increases the number of colors which can be viewed on a 21-inch monitor from 32,000 to over 16.7 million. The kit upgrades the standard 2MB VRAM to 4MB VRAM.
- 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.

Support Information Services

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Keywords: kppc,specsht

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19960215 11:05:19.00

Tech Info Library Article Number: 16661