



# Tech Info Library

## Power Macintosh 8100 Series: Description (1/95)

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TOPIC -----

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

DISCUSSION -----

Overview  
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The Apple Power Macintosh 8100 series computers continue to set new Macintosh speed and performance standards, which is tremendous news for publishers, engineers, and multimedia professionals. In fact, current generations of Power Macintosh 8100 computers offer performance increases of up to 30 percent over the previous 8100 models.

There's the Power Macintosh 8100/100, running at 100 megahertz; the Power Macintosh 8100/100AV, which adds advanced video capabilities; and the Power Macintosh 8100/110, the fastest Macintosh computer ever.

These computers run virtually all Macintosh applications. In addition, they run the hundreds of applications accelerated for Power Macintosh computers at two to six times the speed of previous Macintosh computers.

The 8100 computers can also run MS-DOS and Windows applications using SoftWindows software, available from Insignia Solutions.

All three computers are based on the PowerPC 601 microprocessor codeveloped by Apple, IBM, and Motorola. The 8100/110 runs at a breathtaking 110 megahertz.

The 8100 computers support all Apple and most third-party displays, including monochrome, color, VGA, and SVGA. They 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 8100/100 and 8100/110 support 16.7 million

colors on displays of up to 21 inches.

These Power Macintosh 8100 computers are easy to expand because each includes three NuBus slots. They also provide GeoPort telecommunications, which allows you to integrate them with telephone services. The series also offers speech recognition and text-to-speech capabilities. The 8100/100AV adds S-video and composite video input as well as output for use with televisions, video cameras, and video recorders.

The Power Macintosh 8100 computers are designed to meet the most demanding power, speed, and expandability requirements of publishing, engineering, and multimedia customers.

#### Power and Speed

- 100-MHz or 110-MHz PowerPC 601 microprocessor, including floating-point processor and 32K cache
- 256K level-2 cache

#### Memory

- 4 MB ROM
- 256 bytes of non-volatile parameter memory
- 8 MB or 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

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

#### Display

- 2MB of VRAM (8100/110 and 8100/100 expandable to 4MB)
- DRAM display support for second display
- 2MB of VRAM including NTSC or PAL monitors (8100/100AV only)
- Video input/output (8100/100AV only)

#### Expansion

- Nine built-in ports to support a wide range of peripherals
- Three NuBus slots for expansion cards
- On-board Ethernet (AAUI)
- Optional internal CD-ROM drive
- PlainTalk microphone

#### System software

System 7.5 software

- Makes working with applications consistent, so they're easier to learn and use
- Allows easy customization of your Macintosh to fit the way you work
- Provides active assistance in learning new features with Apple Guide
- Lets you open and use MS-DOS and Windows documents

#### Networking

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

#### Compatibility

- Runs Macintosh applications and applications accelerated for Power Macintosh computers
- Runs MS-DOS and Windows applications via SoftWindows
- Reads Macintosh, Windows, MS-DOS, OS/2, and ProDOS 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 7.5 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 series:

- 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 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 8100/100AV\*

Power Macintosh 8100/100AV computer with 16MB of RAM, 2MB of VRAM, a built-in 1.4MB Apple SuperDrive, an internal 1GB hard disk drive, an internal CD-ROM drive, a PlainTalk microphone, and two S-video to composite video adapters:

Order No. M3680LL/A

Power Macintosh 8100/100\*

Power Macintosh 8100/100 computer with 8MB of RAM, 2MB of VRAM, a built-in 1.4MB Apple SuperDrive, and an internal 700MB hard disk drive:

Order No. M3635LL/A

With 16MB of RAM, a 1GB hard disk, and an internal CD-ROM drive:

Order No. M3640LL/A

Power Macintosh AV Card

Order No. M3447LL/A

Power Macintosh Display Adapter

Order No. M2681LL/A (For 8100/100 and 8100/110 built-in video support with non-AV displays)

Power Macintosh GeoPort Telecom Adapter

Order No. M3127LL/A

Macintosh VRAM Memory Expansion Kit

Order No. M1311LL/A (Requires four kits)

Macintosh Memory Expansion Kits

(Must be installed in pairs by an authorized service provider)

- 4MB (1-4MB SIMM)  
Order No. M3651LL/A
- 8MB (1-8MB SIMM)  
Order No. M3652LL/A
- 16MB (1-16MB SIMM)  
Order No. M3372LL/A

\*All configurations include mouse; system software version 7.5; complete setup, learning, and reference documentation; as well as a limited warranty. Product specifications are subject to change. Check with your Apple reseller for the most current information about product specifications and configurations.

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