



Power Macintosh 8100/80 and Power Macintosh 8100/80AV

Features

Power and speed

- 80-MHz PowerPC 601 microprocessor with floating-point processor and 32K cache
- 256K level-2 cache

Memory

- 8MB or 16MB of RAM expandable to 264MB

Video support

- DRAM display support
- 2MB of VRAM for second display support, expandable to 4MB (8100/80 only)
- 2MB of VRAM for second display including NTSC or PAL monitors (8100/80AV only)

Expansion

- Nine built-in ports to support a wide range of peripherals (8100/80AV has eleven)
- Three NuBus slots for expansion cards
- Optional internal CD-ROM drive
- On-board Ethernet (AAUI)
- Double-speed SCSI for internal device

Features Built Into Every Power Macintosh

Fast, easy setup

- Simple to set up and learn; your system is ready to go the first time you turn it on

System 7 software

- PC Exchange for reading and writing MS-DOS and Windows disks
- AppleScript for scripting in and between Macintosh applications
- QuickTime for working with video and sound as easily as text and graphics
- TrueType fonts for outstanding results on the screen and the page

Compatibility

- Runs Macintosh applications
- Runs MS-DOS and Windows applications (special configurations only)
- Reads Macintosh, Windows, MS-DOS, OS/2, and ProDOS floppy disk formats

Communications

- GeoPort- and LocalTalk-compatible serial ports
- 16-bit stereo audio input and output
- Built-in AppleTalk networking
- Built-in Ethernet networking
- File sharing without a dedicated server

The Power Macintosh 8100/80 and Power Macintosh 8100/80AV deliver the highest performance and speed ever in Macintosh computers. These racehorse computers are designed to meet the speed, expansion, and networking needs of the most demanding Macintosh power users—from professional publishers to computer-aided design professionals.

Although based on new technology, these computers support 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 8100/80 and 8100/80AV can run 50 to 100 percent faster than the Power Macintosh 6100/60 computer. Both computers can also run MS-DOS and Windows applications when using SoftWindows software.

Based on the 80-megahertz PowerPC 601 microprocessor co-developed by Apple, IBM, and Motorola, the Power Macintosh 8100/80 and 8100/80AV both have built-in, floating-point math coprocessors. They also provide built-in, high-speed Ethernet networking.

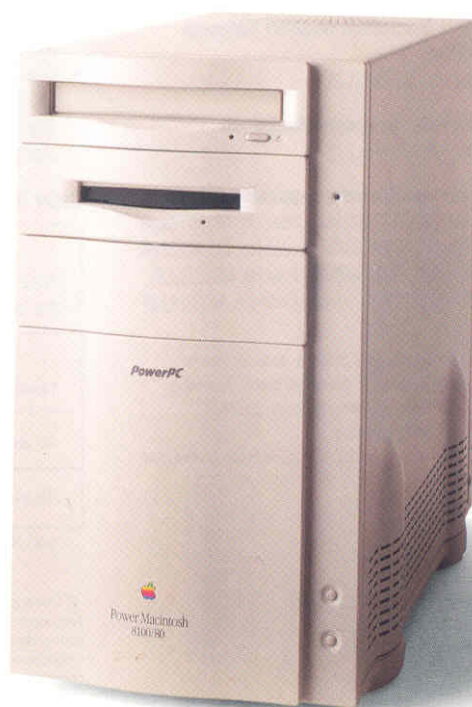
Both computers support all Apple and most third-party displays, including monochrome, color, VGA, and SVGA. Support for 16.7 million colors

on Apple color displays (up to 16- or 17-inch) is included with the 8100/80 and the 8100/80AV. The 8100/80, with the addition of 2 megabytes of VRAM (to total 4 megabytes) 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. The 8100/80AV adds S-video and composite video input as well as output for use with televisions, video cameras, and video recorders.

The Power Macintosh 8100/80 and Power Macintosh 8100/80AV provide the most power and speed ever available in a Macintosh computer. And they come with the flexibility and expandability necessary to build a firm foundation for your future computing needs.





Power Macintosh 8100/80 and Power Macintosh 8100/80AV

Ordering Information

Power Macintosh 8100/80*

- Power Macintosh 8100/80 computer with 8MB of RAM, 2MB of VRAM, built-in 1.4MB Apple SuperDrive, and internal 250MB hard disk drive: Order No. M1884LL/A
- With 8MB of RAM, 250MB hard disk, and internal CD-ROM drive: Order No. M1880LL/A
- With 16MB of RAM, and 500MB hard disk: Order No. M2199LL/A
- With 16MB of RAM, 500MB hard disk, and SoftWindows software: Order No. M3079LL/A
- With 16MB of RAM, 500MB hard disk, and internal CD-ROM drive: Order No. M2284LL/A
- With 16MB of RAM, 1GB hard disk, and internal CD-ROM drive: Order No. M2297LL/A

Power Macintosh 8100/80AV*

- Power Macintosh 8100/80AV computer with 16MB 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. M2293LL/A

Power Macintosh 8100/80 2MB VRAM Upgrade Kit

Order No. M2976LL/A

Power Macintosh Display Adapter

Order No. M2681LL/A

Power Macintosh GeoPort Telecom Adapter

Order No. M3127LL/A

PlainTalk for Power Macintosh

Order No. M2844LL/A

Macintosh Memory Expansion Kits**

- 4MB (1-4MB SIMM) Order No. M1507LL/A
- 8MB (1-8MB SIMM) Order No. M1508LL/A
- 16MB (2-8MB SIMMs) Order No. M2838LL/A
- 32MB (2-16MB SIMMs) Order No. M2839LL/A

*All configurations include mouse; system software version 7; complete setup, learning, and reference documentation; as well as a limited warranty.

**SIMMs must be installed in pairs by an authorized service provider.

Technical Specifications

Microprocessor

- PowerPC 601 RISC running at 80 MHz
- Integrated floating-point unit and 32K cache
- 256K level-2 cache

Memory

- Comes with 8MB or 16MB of RAM
- Can be expanded to up to 264MB of RAM

Disk drives

- One built-in Apple SuperDrive 1.4MB floppy disk drive that uses high-density floppy disks and reads, writes, and formats Macintosh, Windows, MS-DOS, OS/2, and ProDOS disks
- One internal hard disk (250MB, 500MB, and 1GB options available)
- Accommodates one 5.25-in., half-height device, such as the AppleCD 300i Plus CD-ROM drive
- Accommodates one full-height 3.5-in. hard disk drive and one removable 3.5-in. device

Displays

- All Apple displays
- Third-party displays including NTSC, PAL, VGA, and SVGA monitors

Video support

- DRAM display support
- 8100/80: 2MB of VRAM, expandable to 4MB
- 8100/80AV: 2MB of VRAM

Interfaces

- Three internal NuBus expansion slots
- One Apple Desktop Bus (ADB) port for a keyboard, mouse, and other device
- AAUI-15 Ethernet connector
- High-density display port supports Apple AudioVision monitors directly and supports other displays via a Power Macintosh Display Adapter (included with the 8100/80 only)
- Two LocalTalk- and GeoPort-compatible DMA serial (RS-232/RS-422) ports
- Dual-channel, high-speed asynchronous SCSI interface: one supports up to six external SCSI devices; the other channel, running at double the clock speed, supports an internal hard disk array

Color Depth Support

Apple display size	8100/80 8100/80AV DRAM Video	8100/80 8100/80AV 2MB VRAM	8100/80 [†] 4MB VRAM
14-inch	32,768 colors	16.7 million colors	16.7 million colors
16- and 17-inch	256 colors	16.7 million colors	16.7 million colors
20- and 21-inch	not supported	32,768 colors	16.7 million colors

[†]With 2MB VRAM upgrade

- 16-bit stereo sound input and output ports
- DB-15 video port for display support
- 8100/80AV only: S-video input and output ports
- 8100/80AV only: digital-audio video connector (DAV)

Networking

- Built-in Ethernet
- Two serial ports for LocalTalk

Keyboard and mouse

- Supports ADB keyboards with numeric keypads
- ADB Mouse II included

Clock/calendar

- Custom integrated circuit with long-life lithium battery

Disability access

- Easy Access and visible beep included with system software. These built-in solutions and third-party options provide alternative input and output devices for people with disabilities.

Electrical requirements

- Line voltage: 100 to 240 VAC, RMS single phase, automatically configured
- Frequency: 50 to 60 Hz, single phase
- Power: 200 W maximum, not including display

ADB power requirements

- Maximum current draw for all ADB devices: 500 mA (a maximum of three ADB devices is recommended)
- Mouse draws 10 mA
- Keyboard draws 25 to 80 mA (varies with keyboard model used)

Size and weight

- Height: 14.25 in. (36.6 cm)
- Width: 8.9 in. (22.6 cm)
- Depth: 16.0 in. (40.6 cm)
- Weight: 25.3 lbs. (11.5 kg) (varies based on internal devices installed)

Operating environment

- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 ft. (3,048 m)

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