Power Macintosh 8100/80 and 8100/80AV

The Power Macintosh™ 8100/80 and Power Macintosh 8100/80AV deliver the highest performance and speed ever in Macintosh computers. These 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. 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 an 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 maths processors. They also provide built-in, high speed Ethernet networking.

Both computers support all Apple and most third party displays, including monochrome, colour, VGA and SVGA.

Support for 16.7 million colours on Apple colour 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 colours.

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

GeoPort telecommunications capabilities are built in 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. They still come with the flexibility and expandability necessary to build a firm foundation for your future computing needs.

Power Macintosh 8100/80 and 8100/80AV

Technical Specifications

Microprocessor
- PowerPC 601 RISC CPU 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 up to 264MB of RAM (DRAM kits must be installed in pairs; dealer installation required)

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 and OS/2 disks
- One internal hard disk (500MB and 1GB options available)
- Accommodates one 5.25 inch half height device, such as the AppleCD 300i Plus CD-ROM drive
- Accommodates one full height 3.5 inch hard disk drive and one removable 3.5 inch 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 Adaptor
- 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
- 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
- Customised 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: 30.6 cm (14.25 inches)
- Width: 19.6 cm (8.9 inches)
- Depth: 39.6 cm (16.0 inches)
- Weight: 11.5 kg (25.3 lbs) (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)

Colour 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 colours	16.7 million colours	16.7 million colours
16 and 17 inch	256 colours	16.7 million colours	16.7 million colours
20 and 21 inch	not supported	32,768 colors	16.7 million colours

'With 2MB VRAM upgrade

Ordering Information

Power Macintosh 8100/80*
- With 16MB of RAM, 500MB hard disk and internal CD-ROM drive
- With 16MB of RAM, 1GB hard disk and internal CD-ROM drive

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 adaptors

Power Macintosh 8100/80 2MB VRAM Upgrade Kit

Power Macintosh Display Adaptor

Power Macintosh GeoPort Telecom Adaptor

PlainTalk for Power Macintosh

Macintosh Memory Expansion Kits**
- 4MB (1-4MB SIMM)
- 8MB (1-8MB SIMM)
- 16MB (2-8MB SIMMs)
- 32MB (2-16MB SIMMs)

*All configurations include mouse; system software version 7; complete set-up, learning and reference documentation; as well as a limited warranty.
**SIMMs must be installed in pairs by an authorized service provider.