Power Macintosh 8100/110 and 8100/80AV, Power Macintosh 8100/80

Features

Power and speed
- 110-MHz PowerPC 601 microprocessor, including floating-point processor and 32K cache (8100/110 only)
- 80-MHz PowerPC 601 microprocessor with floating-point processor and 32K cache (8100/80 and 8100/80AV)
- 256K level-2 cache

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

Video support
- 2MB of VRAM (8100/110 and 8100/80 expandable to 4MB)
- DRAM display support for second display

Expansion
- Nine built-in ports to support a wide range of peripherals
- Three NuBus slots for expansion cards
- On-board Ethernet (AAUI)

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 on 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

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

Communications
- Serial ports compatible with GeoPort and LocalTalk cables
- 16-bit stereo audio input and output
- Built-in Ethernet networking
- Background file sharing

The Apple Power Macintosh 8100 computers set new Macintosh speed and performance standards, which is tremendous news for publishers, engineers, and multimedia professionals.

There's the Power Macintosh 8100/80, the most affordable of these high-speed computers; the Power Macintosh 8100/80AV, 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 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 Systems.

All three computers are based on the PowerPC 601 microprocessor codeveloped by Apple, IBM, and Motorola, and while the 8100/80 and 8100/80AV run at 80megahertz, 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 8100/80 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 Power Macintosh 8100 computers are designed to meet the most demanding power, speed, and expandability requirements of publishing, engineering, and multimedia customers.

Power Macintosh 8100/110 and 8100/80AV, Power Macintosh 8100/80

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 8100/80AV*
- Power Macintosh 8100/80AV computer with 16MB of RAM, 2MB of VRAM, a built-in 1.4MB Apple SuperDrive, an internal 500MB hard disk drive, an internal CD-ROM drive, a PlainTalk microphone, and two S-video to composite video adapters:
  Order No. M2293LL/B

Power Macintosh 8100/80*
- Power Macintosh 8100/80 computer with 8MB of RAM, 2MB of VRAM, a built-in 1.4MB Apple SuperDrive, and an internal 500MB hard disk drive
  Order No. M3587LL/B
- With 16MB of RAM, a 500MB hard disk, and an internal CD-ROM drive:
  Order No. M2284LL/A
- With 16MB of RAM, a 1GB hard disk, and an internal CD-ROM drive:
  Order No. M2297LL/C

Power Macintosh Display Adapter
Order No. M2681LL/A
(For using 8100/80 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
- 4MB (1–4MB SIMM)
  Order No. M3651LL/A
- 8MB (1–8MB SIMM)
  Order No. M3652LL/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 informa-tion about product specifications and configurations.

Technical Specifications

Microprocessor
- PowerPC 601 RISC microprocessor running at 110 MHz (8100/110 only)
- PowerPC 601 RISC microprocessor running at 80 MHz (8100/80 and 8100/80AV)
- 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
- Uses 72-pin, noncomposite 80-nanosecond or faster DRAM SIMMs that must be installed in pairs

Disk drives
- Includes 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
- Includes one internal hard disk (500MB, 1GB, and 2GB options available)
- Supports one 5.25-inch, half-height device, such as the AppleCD 300i Plus CD-ROM drive
- Supports one additional 3.5-inch hard disk drive or 3.5-inch removable-media device

Displays
- All Apple displays
- Third-party displays including VGA and SVGA monitors
- NTSC and PAL monitors (8100/80AV only)

Video support
- 8100/80 and 8100/110: 2MB of VRAM, expandable to 4MB
- 8100/80AV: 2MB of VRAM
- DRAM display support for optional second display

Interfaces
- Three internal NuBus expansion slots; the 8100/110 also supports higher-performance burst mode between NuBus cards
- One Apple Desktop Bus (ADB) port for a keyboard, mouse, and other device
- AAUI-15 Ethernet connector
- High-density display port supporting Apple AudioVision monitors directly and other displays via the optional Power Macintosh Display Adapter

Color Depth Support
- Two DMA serial (RS-232/RS-422) ports compatible with LocalTalk and GeoPort cables

- Dual-channel asynchronous SCSI interface: external channel supports up to six SCSI devices; internal channel supports a hard disk array
- 16-bit stereo sound input and output ports
- DB-15 video port for display

Networking
- Built-in Ethernet
- Two serial ports for LocalTalk, external modem, or other devices

Keyboard and mouse
- Supports ADB keyboards with numeric keypads
- Includes ADB Mouse II

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 volts AC, 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. (362 mm)
- Width: 7.75 in. (196 mm)
- Depth: 16 in. (406 mm)
- Weight: 24 lb. (10.9 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)

Display Resolution	8100/80 8100/80AV 8100/110 DRAM Video	8100/80 8100/80AV 8100/110 2MB VRAM	8100/80[1] 8100/110[1] 4MB VRAM
640 by 480	32,768 colors	16.7 million colors	16.7 million colors
832 by 624	256 colors	16.7 million colors	16.7 million colors
1,024 by 768	not supported	32,768 colors	16.7 million colors
1,152 by 870	not supported	32,768 colors	16.7 million colors

[1] With 2MB VRAM upgrade

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