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Power Macintosh 8100/110: Technical Specifications (11/94)

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Revised:        11/2/94
Security:       Everyone


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Article Created: 02 November 1994


TOPIC -----------------------------------------------------


This article gives the technical specifications for the Power Macintosh 8100/110
computer.


DISCUSSION -----------------------------------------------


Microprocessor
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• 110-MHz PowerPC 601 RISC Processor


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 (4 pairs)
• SIMMs can be 4 MB, 8 MB, 16 MB or 32 MB, but must be installed in pairs
  of the same size.  For example, you should install two 8 MB SIMMs in
  first two adjoining slots, and two 4 MB SIMMs in the remaining two slots
  for a 32 MB machine.
• Possible RAM configurations are 16 MB, 24 MB, 32 MB, 40 MB, 48 MB,
  56 MB, 64 MB, 72 MB, 80 MB, 96 MB, 104 MB, 120 MB, 136 MB, 168 MB, 200 MB,
  216 MB and 264 MB.
• 80 ns SIMMs or faster
• 256k Level 2 Cache SIMM


 RAM note: The 16MB configuration has 8MB soldered to the logic board and two
           4MB SIMMs installed.


Form Factor
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• Desktop Mini Tower (similiar to Power Macintosh 8100/80 case)
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Disk Drives
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• One Built-in Apple SuperDrive 1.4 MB floppy disk drive that uses
  high-density floppy disks and reads, writes, and formats Macintosh,
  MS-DOS, and OS/2 disks.
• Support for three internal SCSI devices, one of which may be used for a
  one-half height, 5.25-inch removable media drive, such as an internal
  CD-ROM drive.
• One internal hard disk (2 GB)
• Internal Apple CD-ROM drive (see above)
• Optional external SCSI hard disk drive (many capacities available)

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Video Display
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• DRAM based video: 16 bit on 14-inch monitors, 8 bit on 16-inch monitors
• VRAM based video: 2MB: 24 bit on 16-inch monitors, 16 bit on 21-inch
                    monitors. 4MB: 24 bit on 21-inch monitors

Monitor:	Resolution:	2 MB VRAM:	4 MB VRAM:
12-inch Color	512 by 384	millions	millions
12-inch Monochrome	640 by 480	256	256
13-inch or 14-inch Color or VGA	640 by 480	millions	millions
13-inch Color	640 by 400	millions	millions
15-inch Portrait Monochrome	640 by 870	256	256
16-inch Color	832 by 624	thousands	millions
19-inch Color	1024 by 768	thousands	millions
21-inch Color	1152 by 870	thousands	millions
SuperVGA	800 by 600	thousands	millions

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Interfaces
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• Three internal NuBus 90 slots, support block transfers to and from main
  memory, 2x block transfers card to card.
• One Apple Desktop Bus (ADB) port, supporting a keyboard, mouse, and other
  devices.
• One AAUI-15 Ethernet connector.
• Two serial (RS-232/RS-422) ports. (Printer & Modem/GeoPort)
• SCSI interface for connecting up to a total of seven SCSI devices.
• Sound-out port for stereo playback from CDs or Macintosh audio applications
• Stereo sound-input port (supports 16-bit stereo audio)
• One AV Display Connector supports the Apple AudioVision 14 Display.
• The available Video Adapter Cable (Part #M2681LL/A) allows you to connect a
  monitor with a standard DB-15 connector to your Power Macintosh built-in
  video.
• One internal 601 PDS (processor direct slot)
• One internal L2 (Level 2) cache slot

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Networking
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• Built-in Ethernet
• Serial port for AppleTalk
• Integrated GeoPort telecommunications architecture for data, fax, and

voice connectivity.

Keyboard

• Several Apple Desktop Bus keyboards with numeric keypads available.

Mouse

• Apple Desktop Bus Mouse II; mechanical tracking, optical shaft, or
  contact encoding.

Clock/Calendar

• Custom integrated circuit with long-life lithium battery.

Apple PlainTalk Microphone

• The microphone is unidirectional and optimized for use with speech
  recognition. (Microphone bundled with all AV units sold in the USA,
  available as a separate item outside the USA.)

Disability Access

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

Electrical Requirements

• Line voltage: 100 to 240 VAC, RMS single phase, automatically configured
• Frequency: 50 to 60 hertz, single phase
• Power Supply Output Rating (Power available for internal devices)
   - Continuous output   200W

• A/C Line Input (Power drawn by the Power Macintosh 8100/110)
   - Maximum continuous   298W
   - Peak input   453W

ADB Power Requirements

• Maximum current draw for all ADB devices: 500 milliamps (a maximum of
  three Apple Desktop Bus devices is recommended)
• Mouse draws 10 milliamps.
• Keyboard draws 25 to 80 milliamps, depending on the keyboard model used.

Size and Weight

Main unit

   • Height 14.25 inches (46.2 cm)
   • Width   7.75 inches (19.6 cm)
   • Depth 16 inches (40.5 cm)
   • Weight 24 lb. (16.7 kg) varies with disk drive options installed

Mouse

- Height   1.3 inches (33 mm)
- Width   2.4 inches (61.7 mm)
- Depth   4.2 inches (107.3 mm)
- Weight   4   ounces (0.10 kg)

Operating Environment

- Operating temperature: 50° to 104° F (10° to 40° C)
- Storage temperature: -40° to 116.6° F (-40° to 47° C)
- Relative humidity: 5% to 95% noncondensing
- Maximum altitude: 10,000 ft. (3,048m)

System Software Requirements

Requires System 7.5 or later and the accompanying System Enabler.

Support Information Services

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Tech Info Library Article Number:16662