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Power Macintosh 7100/80: Technical Specifications (8/95)

Article Created: 21 December 1994

Article Reviewed/Updated: 11 August 1995

TOPIC -----

This article gives the technical specifications for the Power Macintosh 7100/80 computer.

DISCUSSION -----

Microprocessor

- 80-MHz PowerPC 601 microprocessor with 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 136 MB
- 4 SIMM slots (2 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 can install two 4 MB SIMMs in the remaining two for a total of 32 MB.
- Possible RAM configurations numerous: 8 MB, 16 MB, 24 MB, 32 MB, 40 MB, 48 MB, 72 MB, 80 MB, and 136 MB.
- 80 ns SIMMs or faster

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

Form Factor

- Modular desktop enclosure (similar to Quadra 650 enclosure)

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 (350MB, 500MB, and 700MB options available)
- Accommodates one 5.25-in., half-height device, such as the AppleCD 300i Plus CD-ROM drive
- Optional internal Apple CD-ROM drive (see above)
- Optional external SCSI hard disk drive (many capacities available)

Video Display

- All Apple displays
- Third-party displays including NTSC, PAL, VGA, and SVGA monitors
- 7100/80: 1MB of VRAM, expandable to 2MB
- 7100/80AV: 2MB of VRAM
- DRAM display support for optional second display

Begin_Table

	7100/80	7100/80	7100/80*
Display resolution	7100/80AV DRAM video	1MB VRAM	7100/80AV 2MB VRAM
640 by 480	32,768 colors	32,768 colors	16.7 million colors
832 by 624	256 colors	32,768 colors	16.7 million colors
1,024 by 768	not supported	256 colors	32,768 colors
1,152 by 870	not supported	256 colors	32,768 colors

*With 1MB VRAM upgrade

End_Table

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 supporting Apple AudioVision monitors directly and other displays via the optional Power Macintosh Display Adapter
- Two DMA serial (RS-232/RS-422) ports compatible with LocalTalk and GeoPort cables
- High-speed asynchronous SCSI interface supporting up to six SCSI external devices
- 16-bit stereo sound input and output ports
- DB-15 video port for display
- 7100/80AV only: S-video input and output ports (RCA adapters included)
- 7100/80AV only: digital-audio video connector (DAV)
- Energy Star compliant

Audio System

- 16-bit stereo in and out
- Sample rates of 48, 44.1, 24, 22.05 kilohertz (kHz)
- Input line level: 1 volt peak-to-peak

- Output line level: 1 volt peak-to-peak
- Input SNR (signal-to-noise ratio): 82 decibels (dB) with no audible discrete tones
- Output SNR: 85 dB with no audible discrete tones
- Bandwidth: 20 Hz-20 kHz (+/- 2 dB) at 44.100 kHz sample rate
- THD+N (Total harmonic distortion plus noise): Less than 0.05 percent; measured 20 Hz-20kHz with a 1-Vrms sine wave input.

Networking

- 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

- CMOS custom chip with long-life lithium battery.

Apple PlainTalk Microphone (optional)

- The microphone is unidirectional and optimized for use with speech recognition.

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: 325 W maximum, not including display

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: 6 inches (15.3 cm)
Width: 13 inches (32.8 cm)
Depth: 16.5 inches (42 cm)
Weight: 25 lb. (11.32 kg)

*Weight varies based on internal devices 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

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

System Software Requirements

Requires System 7.5.

Article Change History:

11 Aug 1995 - Reformatted to make more readable on the World Wide Web.
03 Jan 1995 - Made article public.

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Keywords: kppc, specsht

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19960215 11:05:19.00

Tech Info Library Article Number: 16931