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Power Macintosh 7100/66: Specifications (Discontinued)

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Revised:        8/30/95
Security:       Everyone


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Article Created: 27 January 1994
Article Reviewed/Updated: 29 August 1995


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

This article gives the technical specifications for the Power Macintosh 7100/66
computer.


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

Microprocessor
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• 66-MHz PowerPC 601 RISC Processor


Memory
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• 4 MB ROM
• 256 bytes of non-volatile parameter memory
• 8 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
• L2 Cache Slot for Optional Macintosh Cache Card

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


Form Factor
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• Modular desktop enclosure (similiar to Quadra 650 enclosure)
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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 two 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
• Optional 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
  640k of non-expandable DRAM-based video
• VRAM based video: 1MB: 16 bit on 16-inch monitors, 8 bit on 21-inch
  monitors. 2MB: 24 bit on 16-inch monitors, 16 bit on 21-inch monitors
  (The table below details support for colors or grays for specific
   monitors.)

Begin_Table

Monitor:	Resolution:	1 MB VRAM:	2 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	thousands	millions
15-inch Portrait Monochrome	640 by 870	256	256
16-inch Color	832 by 624	thousands	millions
19-inch Color	1024 by 768	256	thousands
21-inch Color	1152 by 870	256	thousands
SuperVGA	800 by 600	thousands	millions
NTSC	640 by 480	thousands	millions
NTSC flicker-free	640 by 480	256	256
NTSC	512 by 384	thousands	millions
NTSC flicker-free	512 by 384	256	256
PAL	768 by 576	thousands	millions
PAL flicker-free	768 by 576	256	256
PAL	640 by 480	thousands	millions
PAL flicker-free	640 by 480	256	256

*NOTE - NTSC and PAL display modes supported only on AV configurations.

End_Table

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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 output port for stereo compact disc audio and stereo computer-generated sound.
- Sound input port for stereo sound input (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

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

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 112W

• A/C Line Input (Power drawn by the Power Macintosh 7100/66)
    - Maximum continuous 167W
    - Peak input   230W

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

• 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 7.1.2 for Power Macintosh or later and System Enabler.

Article Change History:
29 Aug 1995 - Added more information about DRAM.
21 Oct 1994 - Corrected dimensions and weight.
23 Aug 1994 - Additional power supply ratings documented.

Support Information Services

Tech Info Library Article Number:14493