Power Macintosh 6100/60: Specifications (Discontinued)

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TOPIC ---

This article gives the technical specifications for the Power
Macintosh 6100/60 computer.

DISCUSSION --

Microprocessor

• 60-MHz PowerPC 601 RISC Processor

Memory

• 4 MB ROM
• 256 bytes of non-volatile parameter memory
• 8 MB of RAM standard, expandable to 72 MB
• 2 SIMM slots (1 pair)
• 80 ns (nanosecond) SIMMs or faster
• 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.
• Possible RAM configurations are 8, 16, 24, 40 and 72 MB.
• L2 Cache Slot for Optional 256K Macintosh Cache Card

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

Form Factor

• Modular desktop enclosure (similar to Quadra 610, 660av enclosure)

Disk Drives

• 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, OS/2, and ProDOS disks.
• Support for one internal one-third, 5.25-inch height SCSI devices, one of
  which may be used for removable media, such as an internal CD-ROM drive.
• One internal one-third height hard disk (250MB, 350MB options available)

- Optional internal Apple CD-ROM drive (see above)
- Optional external SCSI hard disk drive (many capacities available)

Video Display

- 640k of DRAM based video: 16 bit on 14-inch monitors, 8 bit on 16-inch
  monitors. DRAM based video is not expandable. (The table below details
  support for specific monitors.)
- VRAM based video: No VRAM video support or expansion.

Begin_Table

Monitor:	Resolution:	Colors or Grays:
12-inch Color	512 by 384	thousands
12-inch Monochrome	640 by 480	256
13-inch or 14-inch Color or VGA	640 by 480	thousands
15-inch Portrait Monochrome	640 by 870	256
16-inch Color	832 by 624	256

Note: Built-in video (HDI-45 with 640K DRAM support) doesn't support any
      monitor with a resolution greater than 832 by 624. To use a larger
      monitor (19-inch, 20-inch, or 21-inch), a third-party video card or
      the AV card must be used.

End_Table

Interfaces

- One internal Nubus 90 PDS. Supports block transfers to and from main
  memory, 2x block transfers card to card. There is a NUBUS adapter for the
  Power Macintosh 6100. A NuBus card requires an adapter card & bracket.
  There is only one slot, so it supports one PDS card OR one NuBus 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.
  (1 Printer/LocalTalk, 1 Modem, both support 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
  bundled 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 key pads 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   86W

- A/C Line Input (Power drawn by the Power Macintosh 6100/60)
  - Maximum continuous   132W
  - Peak input   201W

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: 3.4 inches (8.5 cm)
- Width: 16.3 inches (41.5 cm)
- Depth: 15.6 inches (39.7 cm)
- Weight*: 14.0 pounds (6.4 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 the accompanying System Enabler.

Article Change History:
29 Aug 1995 - Formatted for better online viewing.
29 Sep 1994 - Documented hard drive sizes, availability of AV Card upgrade.
23 Aug 1994 - Additional power supply ratings documented.

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