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Power Macintosh 6100/66: Technical Specifications (8/95)

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Security:       Everyone
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TOPIC --

This article gives the technical specifications for the Power Macintosh 6100/66 computer.

DISCUSSION ---

Microprocessor

• PowerPC 601 RISC microprocessor running at 66 MHz
• Integrated floating-point unit and 32K cache
• 256K level-2 cache

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.

 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 1.4MB 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 350MB hard disk
- 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

- Most Apple displays (see chart below)
- Most third-party displays as well as NTSC, PAL, VGA, and SVGA monitors

Video Support*

- 640k of non-expandable DRAM-based video in all Power Macintosh 6100/66 models
- Power Macintosh 6100/66AV only: 2MB of non-expandable VRAM display support
  and DRAM display support for optional second display

*Note: For Power Macintosh 6100/66 DOS Compatible specifications, please see the
articles specific to that card.

Begin_Table

Color depth support (maximum resolution in colors)

Display resolution	6100/66 6100/66AV DRAM video	6100/66AV W/2MB VRAM video
640 by 480	32,768	16.7 million
832 by 624	256	16.7 million
1,024 by 768	not supported	32,768
1,152 by 870	not supported	32,768

End_Table

Interfaces

- 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 a Power Macintosh Display Adapter (included with
  the 6100/66 only)
- 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
- 6100/66 only: Internal expansion slot for processor-direct or 7-in. NuBus expansion card (requires adapter)
- 6100/66AV only: DB-15 video port for display
- 6100/66AV only: S-video input and output ports
  (RCA adapters included)

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

- 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 7.5.

Article Change History:
29 Aug 1995 - Added information about video DRAM.
25 May 1995 - Corrected Video support.
03 Jan 1995 - Made article public.

Support Information Services

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