## PowerBook 180: Specifications (Discontinued)

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

This article provides the technical specifications for the Macintosh PowerBook
180 notebook computer.

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

Microprocessor
--------------
• 68030, running at 33 MHz.

• 68882 Math Coprocessor, running at 33 MHz

Address and Data Bus
--------------------
32-bit Address Bus
32-bit Data Bus

RAM
---
• Comes with 4MB pseudostatic RAM on the logic board.

• Expandable to 14MB with expansion PSRAM cards.

Storage
-------
• One built-in 1.4MB Apple SuperDrive disk drive that uses high-density
  floppy disks; it reads, writes, and formats Macintosh, MS-DOS, OS/2, and
  ProDOS disks.

• One internal 80MB or 120MB hard disk.

Display
-------
• 10 in. (254 mm) diagonal backlit active-matrix liquid-crystal display.

• 16 shades of gray, 640 x 400 pixels

- Built-in support for up to 256 colors on a variety of external displays, including:
    Macintosh 12" Monochrome Display
    Macintosh 12" RGB Display
    AppleColor High Resolution RGB Display
    Macintosh Color Display
    Macintosh 16" Color Display
    Macintosh Portrait Display
    Some VGA and SVGA monitors

- Two video-out modes:

  1) Video mirroring for simultaneous display of the same image on two
     screens.

  2) Dual display for full use of both screens.

Battery
-------
- NiCad (nickel-cadmium), provides 2.5 to 3 hours of use before recharging
  is necessary.  (AC power adapter is included.)

Keyboard and Trackball
----------------------
- Built-in keyboard with standard Macintosh layout and two-level tilt
  adjustment.

- Dual-button trackball, 30 mm diameter.

Clock/Calendar
--------------
- CMOS custom chip with long-life lithium battery.

Microphone
----------
- Built-in omnidirectional; output voltage is 4 mV, peak to peak, at normal
  volume

Interfaces
----------
- One Apple Desktop Bus (ADB) port for keyboard, mouse, and other devices.

- Two RS-422 serial ports for LocalTalk networking, printers, modems, and
  other devices.

- One HDI-30 SCSI port for hard disks, scanners, CD-ROM drives, and other
  devices.

- One slot for optional modem.

- One video-out port, supporting 8 bit/256 colors.

- One sound output port for external audio amplifier.

- One sound-in port.

- Security slot for use with third-party equipment to lock the computer.

Modem
-----
- Optional internal PowerBook Express Modem; 14,400 bits per second (bps) data with fax send and receive at 9600 bps; includes Express Fax software.

- Optional internal 2400 bps modem with fax send at 9600 bps; includes fax send software.

Sound Generator
---------------
- Apple Sound Chip provides 8-bit sound, capable of driving stereo headphones or other stereo equipment through the sound port.

Sound Input
-----------
- 8-bit sound, sampled at 11 or 22 kHz.

Disability Access
-----------------
- CloseView, 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.

ADB Power Requirements
----------------------
- Maximum current draw for all ADB devices is 200 milliamps (a maximum of three ADB devices is recommended)

Electrical Requirements
-----------------------
- Line voltage: 100 to 240 volts

- Frequency: 50 to 60 Hz

Environmental Requirements
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- Operating temperature: 50 to 104 degrees F (10 to 40 degrees C)

- Storage Temperature: -40 to 65° C (-40 to 148° F)

- Relative humidity: 20% to 80% noncondensing

- Altitude: 0 to 15,000 ft. (0 to 4722 m)

- Operating altitude: 0 to 10,000 ft. (0 to 3048 m)

Size and Weight

---------------
- Height: 2.25 in. (5.7 cm)

- Width: 11.25 in. (28.6 cm)

- Depth: 9.3 in. (23.6 cm)

- Weight: 6.8 lb. (3.1 kg)

Noise Level
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Noise free except for disk drive use.


Article Change History:
04 Jun 1993 -Updated to correct voltage specification.
19 Feb 1993 -Updated to correct storage temperature range.

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