



Tech Info Library

PowerBook 180: Specifications (Discontinued)

Revised: 8/2/94
Security: Everyone

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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

- 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

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.

Support Information Services

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