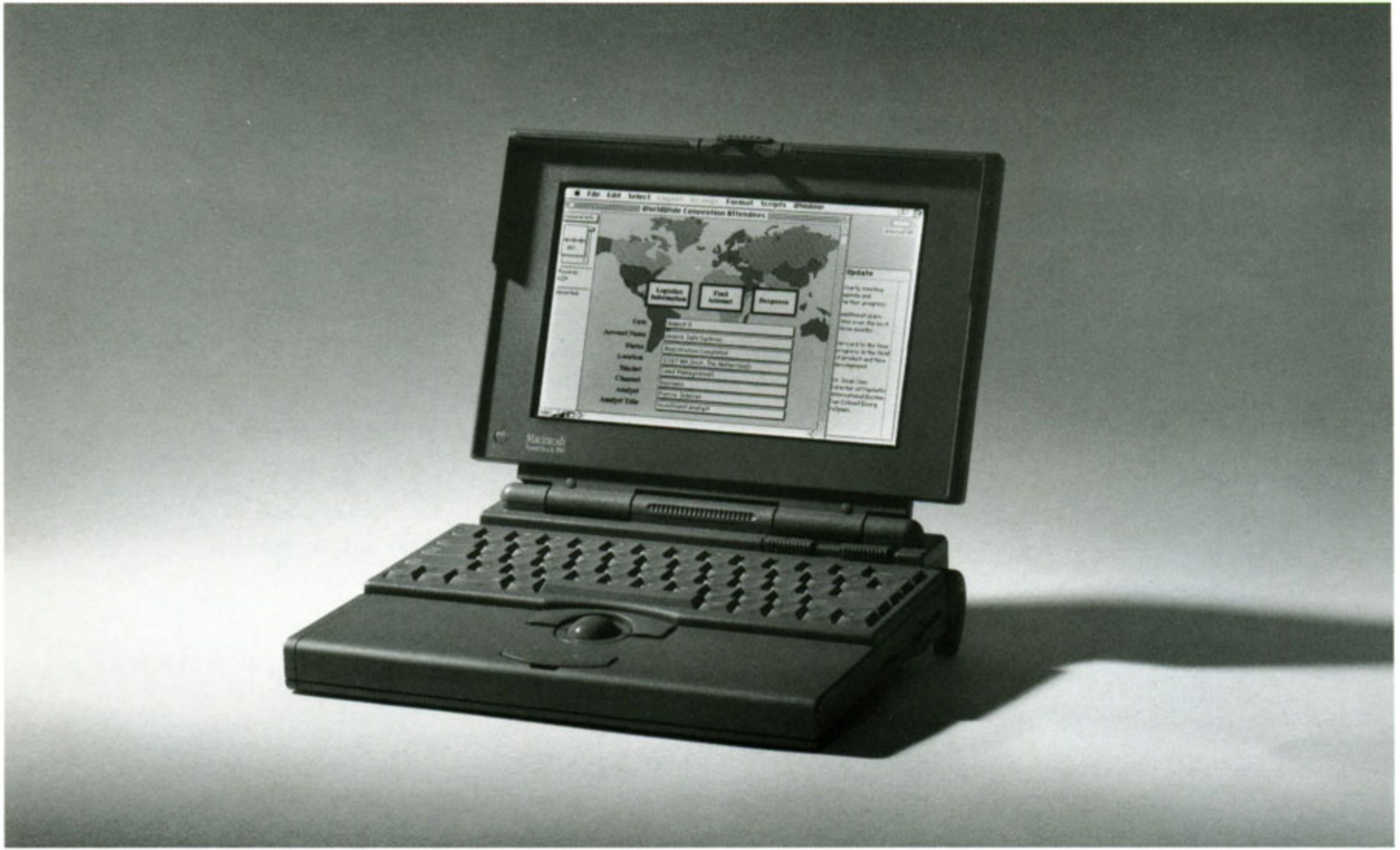


Macintosh PowerBook 180



The Apple Macintosh PowerBook 180 sets the standard for high-performance notebook computing. It's the top-of-the-line Macintosh PowerBook, delivering speed, flexibility, and convenience in a highly acclaimed, all-in-one design.

The Macintosh PowerBook 180 takes advantage of a 33-MHz 68030 processor and FPU with increased memory and storage capacity to provide outstanding processing power. In fact, it's more powerful than many mainstream desktop computers.

The Macintosh PowerBook 180 also features an industry-leading, backlit active matrix display that supports 16 levels of gray for the sharpest text with the brightest, clearest images available on a notebook computer. And, built-in color support for a wide range of external displays lets you expand your workspace with a larger display when you're at your desk

or use an external display to deliver a color presentation or demonstration.

The Macintosh PowerBook 180 is ready to meet all your computing needs—all the time. It includes a standard-size keyboard, full-page-width display, built-in trackball, and seven built-in ports for plug-and-play access to peripherals in an ergonomic, all-in-one design that fits in a briefcase and weighs just 6.8 pounds.

You'll find all the connections you need to work anywhere—including built-in networking, so you can use all the resources on an AppleTalk network, such as electronic mail, printers, and file servers. And with an optional modem and AppleTalk Remote Access, you have full access to your network, even if you're halfway around the world. Best of all, the PowerBook 180 is a Macintosh computer, easy to use and easy to set up. It runs System 7.1 and thousands of Macintosh applications.

Macintosh PowerBook 180 Features

Power and speed

- ▶ 33-MHz 68030 microprocessor
- ▶ 33-MHz 68882 math coprocessor

Memory

- ▶ 4 MB of RAM, expandable to 14

Expansion

- ▶ Seven ports for peripherals, including video-out for external color displays
- ▶ Slots for internal modem and RAM

Display

- ▶ Full page width, 10-in. diagonal, 16-level gray scale
- ▶ Bright, backlit active matrix, 640 by 400 pixels
- ▶ Adjustable brightness and contrast controls

Features Built Into Every Macintosh

Usability

- ▶ Runs thousands of Macintosh applications

System software

- ▶ System 7.1, with multitasking, file sharing, TrueType fonts, and WorldScript

Networking

- ▶ Built-in AppleTalk networking
- ▶ File sharing without a dedicated server

Compatibility

- ▶ Macintosh, MS-DOS, OS/2, and ProDOS floppy disk formats



Macintosh PowerBook 180

Technical Specifications

Microprocessor

- ▶ 68030, running at 33 MHz
- ▶ 68882 math coprocessor, running at 33 MHz

Memory

- ▶ Comes with 4 MB pseudostatic RAM
- ▶ Expand to up to 14 MB of RAM with third-party PSRAM cards

Disk storage

- ▶ One built-in 1.4 MB Apple SuperDrive disk drive that uses high-density floppy disks and reads, writes, and formats Macintosh, MS-DOS, OS/2, and ProDOS disks
- ▶ One internal 80 or 120 MB hard disk

Display

- ▶ 10 in. (254 mm) diagonal
- ▶ Backlit active-matrix liquid crystal display
- ▶ 16 shades of gray, 640 by 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
 - Video mirroring for simultaneous display of the same image on two screens
 - Dual display for full use of both screens

Battery

- ▶ NiCad, provides 2.5 to 3 hours of usage before recharging

Keyboard

- ▶ Built-in keyboard with standard Macintosh layout
- ▶ Two-level tilt adjustment

Trackball

- ▶ 30-mm-diameter, dual-button trackball

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 power adapter port
- ▶ 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 or headphones
- ▶ 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 are 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 mA (a maximum of three ADB devices is recommended)

Electrical requirements

- ▶ Line voltage: 110 to 220 V
- ▶ Frequency: 50 to 60 Hz

Environmental requirements

- ▶ Operating temperature: 50° F to 104° F (10° C to 40° C)
- ▶ Storage temperature: -13° F to 140° F (-25° C to 60° C)
- ▶ Relative humidity: 20% to 80% noncondensing
- ▶ Altitude: 0 to 15,000 ft. (0 to 4722 m)
- ▶ Operational altitude: 0 to 10,000 ft. (0 to 3048 m)

Size and weight

- ▶ Height: 2.25 in. (5.7 cm)
- ▶ Width: 11.25 (28.6 cm)
- ▶ Depth: 9.3 in. (23.6 cm)
- ▶ Weight: 6.8 lb. (3.1 kg)

Ordering Information

Macintosh PowerBook 180 4/80

Order No. M4400LL/A

- ▶ Macintosh PowerBook 180 personal computer with 4 MB of RAM, one 80 MB internal hard disk, and one built-in 1.4 MB Apple SuperDrive
- ▶ Battery and AC adapter
- ▶ Video-out cable
- ▶ System 7.1 software
- ▶ Training software
- ▶ Complete setup, learning, and reference documentation
- ▶ Limited warranty statement

Macintosh PowerBook 180 4/120

Order No. M4410LL/A

- ▶ Macintosh PowerBook 180 personal computer with 4 MB of RAM, one 120 MB internal hard disk, and one built-in 1.4 MB Apple SuperDrive
- ▶ All software and accessories included with the Macintosh PowerBook 180 4/80

Macintosh PowerBook 4MB Memory Expansion Kit*

Order No. M4664LL/A

Macintosh PowerBook Fax/Data Modem* (U.S., Canada, Japan)

Order No. M0970LL/A

(Europe, Australia, some South American countries)

Order No. M0980**/A

Macintosh PowerBook Express Modem Kit* (U.S., Canada, Japan)

Order No. M1366LL/A

(Europe, Australia, some South American countries)

Order No. M1365**/A

Macintosh PowerBook Rechargeable Battery

Order No. M5545LL/B

Macintosh PowerBook AC Adapter

Order No. M4660LL/A

Macintosh PowerBook Battery Recharger

Order No. M1027LL/A

Apple HDI-30 SCSI Disk Adapter

Order No. M2539LL/A

Apple HDI-30 SCSI System Cable

Order No. M2538LL/A

**Dealer installation recommended.*

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