



PowerBook 165

The Apple PowerBook 165 sets a new standard for high-performance and affordable notebook computing. It gives you the convenience of an all-in-one package and the powerful performance you need to take full advantage of your applications.

Featuring a 68030 microprocessor that runs at 33 megahertz, the PowerBook 165 is more powerful than many desktop computers. The PowerBook 165 supports up to 14 megabytes of RAM, so you can work with multiple applications simultaneously.

The 10-inch (254-millimeter) backlit passive-matrix display supports 16 levels of gray, for sharp text with bright, clear images. You can take advantage of a larger color display when you're not on the go: just connect the PowerBook 165 to any Apple color display (up to 16-inch) or some VGA/SVGA displays. With the dual-display mode of the PowerBook 165, you can display an image on the built-in screen plus a different image or even another application on an external monitor concurrently.

The PowerBook 165 is ready to meet all your computing needs no matter where you are. It includes a standard-size keyboard, full-page-width display, built-in trackball, and seven built-in ports for access to peripheral devices. All these features are incorporated in a convenient design that fits in a briefcase and weighs just 6.8 pounds (3.03 kilograms).

With the PowerBook 165 you'll find all the connections you need to work anywhere—on the road, in a conference room, or at your desk. AppleTalk networking is built in, so you can connect to all the resources in an AppleTalk network, such as electronic mail, printers, and file servers. Add an optional modem and AppleTalk Remote Access software to gain full access to AppleTalk networks practically anywhere in the world.

PowerBook 165 Features

Power and speed

- 33-MHz 68030 microprocessor

Memory

- 4 MB of RAM, expandable to 14 MB

Display

- Supertwist (a bright, backlit passive matrix, 640 by 400 pixels)
- Full-page-width, 10-in. (254 mm) diagonal; 16-level gray scale
- Adjustable brightness and contrast controls

Expansion

- Seven built-in ports for peripheral devices, including a video-out port for an external color display
- Slots for internal modem and RAM

Features Built Into Every PowerBook

Usability

- Runs thousands of Macintosh applications
- Easy to set up, learn, use, and expand

System software

- System software version 7, with multitasking, file sharing, Balloon Help, TrueType fonts, and more

Networking

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

Compatibility

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





PowerBook 165

Ordering Information

PowerBook 165 4/80

Order No. M1641LL/A

- PowerBook 165 personal computer with 4 MB of RAM, one built-in 1.4-MB Apple SuperDrive, and one internal 80-MB hard disk
- Battery and AC adapter
- Video-out cable
- System software version 7.1
- Complete setup, learning, and reference documentation
- Training software
- Limited warranty statement

Note: Additional hard disk configuration TBA

PowerBook 4-MB Memory Expansion Kit*

Order No. M4664LL/A

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

Order No. M0970LL/A

PowerBook Fax/Data Modem (Europe, Australia, South America)

Order No. M0980**/A

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

Order No. M1366LL/A

PowerBook Express Modem Kit* (Europe, Australia, South America)

Order No. M1365**/A

PowerBook Rechargeable Battery

Order No. M5545LL/C

PowerBook AC Adapter

Order No. M4662LL/A

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

PowerBook File Assistant

Order No. M1813Z

PowerBook/DOS Companion

Order No. M9400LL/A

* Dealer installation recommended

Technical Specifications

Microprocessor

- Motorola 68030, running at 33 MHz

Memory

- Comes with 4 MB of pseudostatic RAM (PSRAM)
- Expands to 14 MB of RAM with the addition of 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 40-, 80-, or 120-MB hard disk

Display

- 10-in. (254-mm) diagonal
- Backlit supertwist passive-matrix display, 640 by 400 pixels
- 16 shades of gray
- Two video-out modes:
 - Video mirroring for simultaneous display of the same image on two screens
 - Dual display for full use of both screens with different images or different applications at the same time
- Built-in support for up to 256 colors on a variety of external displays

External display options

- Macintosh 12-inch Monochrome Display
- Macintosh 12-inch RGB Display
- AppleColor High-Resolution RGB Display
- Macintosh Color Display (14 in.)
- Macintosh 16-inch Color Display
- Macintosh Portrait Display (15 in.)
- Some VGA and SVGA monitors

Battery

- Nickel-cadmium which provides 2.5 to 3 hours of computer use before recharging is necessary.

Keyboard

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

Trackball

- 30-mm (approx. 1.25-in.) diameter, two buttons

Clock/calendar

- CMOS custom-integrated circuit with long-life lithium battery

Microphone

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

Interfaces

- One power adapter port
- One Apple Desktop Bus (ADB) port for keyboard, mouse, and other input 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 that supports 8-bit density and 256 colors
- One sound-out 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; sends and receives data at 14,400 bps and sends and receives faxes at 9600 bps. Includes Express Fax software.
- Optional internal 2400-bps modem; sends faxes at 9600 bps. Includes fax-send software.

Sound generator

- Apple Sound Chip provides 8-bit sound and is capable of driving stereo headphones or other stereo equipment. These devices connect to the Apple Sound Chip through the sound port.

Sound input

- 8-bit sound, sampled at 11 or 22 kHz

Disability access

- CloseView, Easy Access, and visible-beep software are included with system software. These built-in third-party options provide alternative means of input and output for people with disabilities.

ADB power requirements

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

Power 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
- Operating altitude: 0 to 10,000 ft. (0 to 3048 m)
- Maximum storage altitude: 15,000 ft. (4722 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. (3.03 kg)