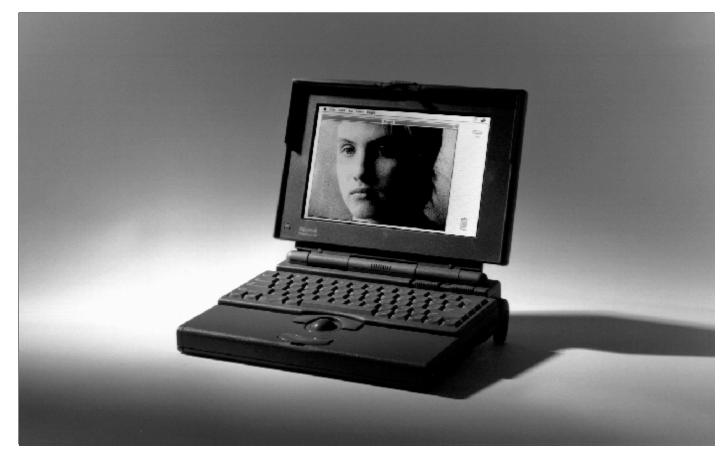# Macintosh PowerBook 140

The Apple Macintosh PowerBook line of notebook computers represents an outstanding partnership of convenience, power, and affordability.

The Macintosh PowerBook 140 is designed for those who want solid Macintosh performance and flexibility in a convenient, take-it-wherever-you-work notebook computer. This sleek, innovative Macintosh fits easily inside a briefcase--but offers both the full power and the ease of Macintosh computing.

What's more, the Macintosh PowerBook 140 gives you a remarkably comfortable way to work thanks to the most innovative ergonomic design in the industry. An integrated trackball and palm rest makes it easy for you to work with the computer on your lap, and you can easily adjust the standard-size keyboard and bright, full page-width display.

The PowerBook 140 also offers greater performance than the PowerBook 100 and a built-in floppy disk drive that accommodates Macintosh, MS-DOS, OS/2, and ProDOS formats.

Other built-in features that you usually can't get in notebook computers include networking capabilities, which give you instant access to all the resources in an AppleTalk network. Six built-in ports let you plug your PowerBook 140 directly into high-capacity hard disks, printers, and input devices. With an optional modem, you can send electronic mail, access information on other computers, even connect to your AppleTalk network--plus send documents to facsimile machines anywhere. The Macintosh PowerBook 140 also has built-in sound input capability so you can add sounds from other sources.

Macintosh PowerBook 140 Features

Processor
> 16 MHz 68030 microprocessor

Memory
> 2 or 4 megabytes of RAM, expandable to 8

Expansion
> Six built-in ports for peripherals
> Internal slots for modem and RAM

Display
> Backlit Supertwist, 640 by 400 pixels

Features Built Into Every Macintosh

Usability
> Runs thousands of Macintosh applications
> Easy to set up, learn, and use

System software
> System 7.0.1, with multitasking, file sharing, Balloon Help, and TrueType fonts

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

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

Macintosh PowerBook 140

Technical Specifications

Microprocessor
> 68030, running at 16 megahertz

Memory
> Comes with 2 or 4 megabytes pseudostatic RAM on the logic board and one memory expansion slot.
> Expand to up to 8 megabytes of RAM by installing a RAM expansion card in the expansion slot.

Disk storage
> One built-in 1.4-megabyte drive that uses high-density floppy disks and reads, writes, and formats Macintosh, MS-DOS, OS/2, and ProDOS disks
> One internal 20- or 40-megabyte hard disk

Display
> 10 in. (254 mm) diagonal
> Backlit Supertwist liquid crystal display
> 640 by 400 pixels

Battery
> NiCad, 2.5 ampere-hours, provides 2 to 3 hours of usage before recharging is necessary
> Recharge time: 3 hours

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

Trackball
> 30mm-diameter, dual button trackball

Clock/calendar
> CMOS custom chip with long-life lithium battery

Interfaces
> One Apple Desktop Bus (ADB) port for keyboard, mouse, and other devices using a low-speed, synchronous serial bus
> 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 sound output port for external audio amplifier
> One sound-in port

Modem
> Optional internal 2400-baud modem with fax send at 9600 baud; includes fax send software
> Error correction and compression: MNP 4, 5 and V.42, V.42bis

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 disability.

ADB power requirements
> Maximum current draw for all ADB devices is 50 milliamps (a maximum of three ADB devices is recommended)

Electrical requirements
> Line voltage: 110 to 220 volts
> Frequency: 50 to 60 hertz

Environmental requirements
> Operating temperature: 50°F to 104°F (10°C to 40°C)
> Storage temperature: 50°F to 140°F (10°C to 60°C)
> Relative humidity: 20% to 80% noncondensing
> Altitude: 0 to 15,000 ft. (0 to 4,722 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)

Ordering Information

Macintosh PowerBook 140 2/20
Order No. M0511LL/A
> Macintosh PowerBook 140 personal computer with 2 megabytes of RAM, one 20-megabyte internal hard disk, and one built-in 1.4-megabyte Apple SuperDrive
> Battery and AC adapter
> Microphone
> System software
> HyperCard 2.1 software and documentation
> Training software
> Complete setup, learning, and reference documentation
> Limited warranty statement

Macintosh PowerBook 140 2/40
Order No. M1049LL/A
> All features included with the Macintosh PowerBook 140 2/20
> 40-megabyte internal hard disk

Macintosh PowerBook 140 4/40
Order No. M1227LL/A
> All features included with the Macintosh PowerBook 140 2/40
> 4 megabytes of RAM

Macintosh PowerBook 2MB Memory Expansion Kit
Order No. M1032LL/A

Macintosh PowerBook 4MB Memory Expansion Kit
Order No. M1033LL/A

Macintosh PowerBook Fax/Data Modem (U.S., Canada, Japan)
Order No. M0970LL/A

Macintosh PowerBook Fax/Data Modem (Europe, Australia, and some South American countries)
Order No. M0980**/A

Macintosh PowerBook 140/170 Rechargeable Battery
Order No. M5545LL/A

Macintosh PowerBook AC Adapter
Order No. M1058LL/A

Macintosh PowerBook 140/170 Battery Recharger
Order No. M1027LL/A

Apple HDI-30 SCSI System Cable
Order No. M2538LL/A