PowerBook 540: Specifications (Discontinued) (5/96)

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TOPIC -----

This article provides technical specifications for the PowerBook 540 computer.

DISCUSSION -----

Provides Macintosh Quadra performance in an all-in-one notebook computer

Microprocessor

- 66/33-MHz 68LC040 microprocessor (no FPU). (the two speeds refer to the internal processor and bus interface, respectively)
- 32-bit Address and Data bus
- Daughterboard (memory expansion) runs at 32-bit

RAM

- 4 MB RAM on logic board.
- Expandable to 36 MB with 70ns low power self-refreshing RAM (Apple 8 MB RAM Expansion Kit, or Third Party higher density RAM card)

Storage

- One built-in 1.4 MB 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 240 MB hard disk.

Display/Video Out

- 9.5-inch (diagonal), backlit, active matrix gray-scale display
- 640 x 480 pixels, 64 levels of gray
- Sleeps on close
- User-configurable
- External display port (mini DB-15) supports 8-bit video
- External display options:
  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 (third party adapter required)
• Two video-out modes:
 - Video mirroring for simultaneous display of the same image on two screens.
 - Dual display for full use of both screens.

Networking

• Serial/LocalTalk
• Built-in High Speed Ethernet with Apple AUI connector

System Software

• Requires System 7.1.1 or later (5 High Density Disks)
• PowerBook 500 Series Enabler version 1.0.2 or later

Battery

• Nickel-metal-hydride PowerBook Intelligent Batteries each provide up to 3.5 hours of use before recharge.
• EverWatch battery-saver technology
• Batteries recharge in two hours when computer is in sleep or shutdown; four hours when running.
• PowerBook Control Strip allows user to monitor time remaining, charge time, and battery usage
• Backup rechargeable lithium battery maintains RAM in sleep modem while main battery is removed for up to three minutes.

Keyboard and Tracking Device

• Built-in keyboard with standard size keyboard with 76 (US) or 77 (ISO) keys including 12 function keys
• Two-level tilt adjustment
• Power-on key located on Keyboard
• Solid-state trackpad provides precise cursor control in response to the user's fingertip over its surface

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.

- One RS-422 serial port for LocalTalk networking, printers, modems, and other devices.
- One high-speed Ethernet port
- One HDI-30 SCSI port for hard disks, scanners, CD-ROM drives, and other devices (up to 6 devices can be chained).
- One slot for optional modem.
- One video-out port, supporting 8 bit density and 256 colors.
- One stereo sound output port for external audio amplifier or headphones.
- One mono sound-in port.
- Security slot for use with third-party equipment to lock the computer.
- 90-pin processor direct slot (PDS) for connecting PDS devices or optional PowerBook PCMCIA Expansion Module allows use of two Type II or one Type III PCMCIA-type card).
- One RAM slot

Modem

- Optional Global Village PowerPort Mercury modem supports 19,200 bps data transmission and 14,440 bps fax

Built-in Stereo Sound

- CD-quality, 16-bit stereo sound capable of driving headphones or other stereo equipment.
- Two built-in stereo speakers
- Digital-to-analog and analog-to-digital conversion sampled at 11.035, 22.050, or 44.100 kHz.

Disability Access

- Easy Access and the ability to substitute visual cue for 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 mA (a maximum of three ADB devices is recommended)

Electrical Requirements

- Line voltage: 100 to 240 volts, 50 to 60 Hz

Environmental Requirements

- Operating temperature: 50 to 104° F (10 to 40° C)
- Storage Temperature: -40°F to +149°F (-40 to +65° C)
- Relative humidity: 20% to 80% noncondensing
- Altitude: max. 10,000 ft. (3,048 m)
- Maximum Storage Altitude: 15,000 ft. (4,722 m)

Size and Weight

• Height: 2.3 in. (5.7 cm)
• Width: 11.5 in. (29.2 cm)
• Depth: 9.7 in. (24.5 cm)
• Weight: 7.1 lb. (3.2 kg)

Noise Level

• Noise free except for disk drive use.

Security

• Slot for security cable

Ordering Information

PowerBook 540 4/240
Order No. M2807LL/A
- PowerBook 540 computer with 4 MB of RAM, built-in 1.4MB Apple SuperDrive, and internal 240 MB hard disk drive
- Two PowerBook Intelligent Batteries and AC adapter
- System 7
- Complete setup, learning, and reference documentation
- Training software
- Limited warranty
- PowerBook Mobility Bundle

Order No. M3120LL/A
Same as Order No. M2807LL/A, but with 12 MB of RAM and a Global Village 19.2-bps data, 14.4-bps fax send-and-receive modem

PowerBook Active-Matrix Color Display Upgrade
Order No. M3063LL/A

PowerBook 8MB Memory Expansion Kit
Order No. M1913LL/A

PowerBook Intelligent Battery
Order No. M1908LL/A

PowerBook AC Adapter
Order No. M1910LL/A

PowerBook PCMCIA Expansion Module
Order No. M2995LL/C

Apple HDI-30 SCSI Disk Adapter
Order No. M2539LL/A

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

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