

MacBook (13-inch, Mid 2010) - Technical Specifications

Size and weight

- Height: 1.08 inches (2.74 cm)
- Width: 13.00 inches (33.03 cm)
- Depth: 9.12 inches (23.17 cm)
- Weight: 4.7 pounds (2.13 kg)¹

Processor and memory

- 2.4GHz Intel Core 2 Duo processor with 3MB on-chip shared L2 cache
- 1066MHz frontside bus
- 2GB (two 1GB SO-DIMMs) of 1066MHz DDR3 SDRAM; two SO-DIMM slots support up to 4GB

Communications

AirPort Extreme 802.11n Wi-Fi wireless networking;² IEEE 802.11a/b/g compatible

Bluetooth 2.1 + EDR (Enhanced Data Rate) wireless technology

10/100/1000BASE-T Gigabit Ethernet (RJ-45 connector)

Environmental Status Report

MacBook is designed with the following features to reduce its environmental impact:

- Recyclable polycarbonate enclosure
- Mercury-free LED-backlit display
- Arsenic-free display glass
- BFR-free
- PVC-free⁶
- Reduced packaging volume
- Meets ENERGY STAR Version 5.0 requirements
- Rated EPEAT Gold⁷

Acoustic Performance

DECLARED NOISE EMISSIONS in accordance with ISO 9296

	Sound Power Level	Sound Pressure Level
	L_{WAd} (B)	Operator Position
	1 B = 10 dB	L_{pAm} (dB)
Idle	2.6	12
Hard drive accessing	2.6	11
CD drive accessing	3.2	24

1. L_{WAd} is the statistical upper-limit A-weighted sound power level (rounded to the nearest 0.1 B).

2. L_{pAm} is the mean A-weighted sound pressure level measured at the operator position (rounded to the nearest dB).

3. 1 B (bel) = 10 dB (decibel).

Display

13.3-inch (diagonal) LED-backlit glossy widescreen display with support for millions of colors

Supported resolutions: 1280 by 800 (native), 1152 by 720, 1024 by 768, 1024 by 640, 800 by 600, 800 by 500, 720 by 480, and 640 by 480 pixels at 16:10 aspect ratio; 1024 by 768, 800 by 600, and 640 by 480 pixels at 4:3 aspect ratio; 720 by 480 pixels at 3:2 aspect ratio

Graphics and video support

NVIDIA GeForce 320M graphics processor with 256MB of DDR3 SDRAM shared with main memory³

Extended desktop and video mirroring: Simultaneously supports full native resolution on the built-in display and up to 2560 by 1600 pixels on an external display, both at millions of colors

iSight camera

Mini DisplayPort

Video output options

DVI output using Mini DisplayPort to DVI Adapter

VGA output using Mini DisplayPort to VGA Adapter

Dual-link DVI output using Mini DisplayPort to Dual-Link DVI Adapter supports 30-inch Apple Cinema HD Display (optional)

HDMI output using a third-party Mini DisplayPort to HDMI adapter

Input

- Full-size keyboard with 78 (U.S.) or 79 (ISO) keys, including 12 function keys and 4 arrow keys (inverted “T” arrangement)
- Multi-Touch trackpad for precise cursor control; supports inertial scrolling, pinch, rotate, swipe, three-finger swipe, four-finger swipe, tap, double-tap, and drag capabilities

Audio

- Stereo speakers
- Omnidirectional microphone
- Combined headphone/line in (supports digital output)
- Support for Apple iPhone headset with microphone

Connections and expansion

- MagSafe power port
- Gigabit Ethernet port
- Mini DisplayPort
- Two USB 2.0 ports (up to 480 Mbps)
- Audio in/out
- Kensington lock slot

Storage

- 250GB 5400-rpm Serial ATA hard disk drive; optional 320GB or 500GB 5400-rpm drive⁴
- 8x slot-loading SuperDrive (DVD±R DL/DVD±RW/CD-RW)
 - Maximum write: 8x DVD-R, DVD+R; 4x DVD-R DL (double layer), DVD+R DL (double layer), DVD-RW, DVD+RW; 24x CD-R; 10x CD-RW
 - Maximum read: 8x DVD-R, DVD+R, DVD-ROM; 6x DVD-ROM (double layer DVD-9), DVD-R DL (double layer), DVD+R DL (double layer), DVD-RW, and DVD+RW; 24x CD

Battery and power⁵

Up to 10 hrs wireless productivity

Built-in 63.5-watt-hour lithium-polymer battery

60W MagSafe Power Adapter with cable management system

MagSafe power port

Electrical and operating requirements

- Line voltage: 100V to 240V AC
- Frequency: 50Hz to 60Hz
- Operating temperature: 50° to 95° F (10° to 35° C)
- Storage temperature: -13° to 113° F (-24° to 45° C)
- Relative humidity: 0% to 90% noncondensing
- Maximum operating altitude: 10,000 feet
- Maximum storage altitude: 15,000 feet
- Maximum shipping altitude: 35,000 feet

Installed software

- Mac OS X v10.6 Snow Leopard (includes Time Machine, Quick Look, Spaces, Spotlight, Dashboard, Mail, iChat, Safari, Address Book, QuickTime, iCal, DVD Player, Photo Booth, Front Row, Xcode Developer Tools)
- iLife (includes iPhoto, iMovie, GarageBand, iWeb, iDVD)

What’s in the box

- MacBook
- 60W MagSafe Power Adapter, AC wall plug, and power cord
- Software DVDs
- Printed and electronic documentation

Options

Time Capsule

Time Capsule is a full-featured AirPort Extreme base station with a built-in hard drive. Back up wirelessly and create a Wi-Fi network with one device.

- 1TB or 2TB Serial ATA server-grade hard disk drive
- 802.11n Wi-Fi
- USB port for connecting a printer or external hard drive

Configure to order

- 320GB (5400-rpm) hard drive
- 500GB (5400-rpm) hard drive
- Up to 4GB of 1066MHz DDR3 SDRAM
- Apple Mini DisplayPort to DVI Adapter
- Apple Mini DisplayPort to VGA Adapter
- Apple Mini DisplayPort to Dual-Link DVI Adapter
- MagSafe Airline Adapter
- AppleCare Protection Plan
- Aperture
- Final Cut Express
- Logic Express
- iWork

Accessories

- Apple LED Cinema Display
- AirPort Extreme Base Station
- AirPort Express Base Station
- Apple Wireless Keyboard
- Apple Magic Mouse
- AppleCare Protection Plan

1. Actual weight varies by configuration and manufacturing process.

2. Wireless Internet access requires a base station or other wireless access point and Internet access; fees may apply. Some ISPs are not currently compatible with AirPort.

3. Memory available to Mac OS X may vary depending on graphics needs. Minimum graphics memory usage is 256MB.

4. 1GB = 1 billion bytes; actual formatted capacity less.

5. Testing conducted by Apple in April 2010 using preproduction 2.4GHz Intel Core 2 Duo-based MacBook units. Battery life depends on configuration and use. See www.apple.com/batteries for more information. The wireless productivity test measures battery life by wirelessly browsing various websites and editing text in a word processor document with display brightness set to the middle setting.

6. PVC-free AC power cord is available in the U.S., Canada, Mexico, Colombia, El Salvador, Guatemala, Panama, Peru, Puerto Rico, U.S. Virgin Islands, and Venezuela.

7. MacBook achieved a Gold rating from EPEAT in the U.S., Canada, France, Germany, and the UK.

Helpful?

Yes

No