13-inch | 15-inch | 17-inch

13-inch Technical Specifications

Size and weight

Height: **0.95** inch (2.41 cm)

Width: **12.78** inches (32.5 cm)

Depth: **8.94** inches (22.7 cm)

Weight: **4.5** pounds (2.04 kg) [1]

12.78"

0.95"

Connections and expansion

- MagSafe power port
- Gigabit Ethernet port
- One FireWire 800 port (up to 800 Mbps)
- Mini DisplayPort
- Two USB 2.0 ports (up to 480 Mbps)
- SD card slot
- Audio in/out
- Kensington lock slot

Communications

- Built-in AirPort
  Extreme Wi-Fi
  wireless
  networking [2] (based
  on IEEE 802.11n draft specification); IEEE
  802.11a/b/g compatible

  802.11n

- Built-in Bluetooth
  2.1 + EDR (Enhanced
  Data Rate)

  Bluetooth

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

Audio

- Built-in stereo speakers
- Built-in omnidirectional microphone
- Combined optical digital output/headphone

Display

13.3"

- 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 640, and
  800 by 500 pixels at 16:10 aspect ratio;
  1024 by 768, 800 by 600, and 640 by 480
  pixels at 4:3 aspect ratio; 1024 by 768, 800
  by 600, and 640 by 480 pixels at 4:3 aspect
  ratio stretched; 720 by 480 pixels at 3:2
  aspect ratio; 720 by 480 pixels at 3:2
  aspect ratio stretched

Graphics and video support

NVIDIA GeForce 9400M
graphics processor with 256MB
of DDR3 SDRAM shared with
main memory [3]

Dual display 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

Built-in iSight camera

Mini DisplayPort

Pure digital video output

DVI output using Mini DisplayPort to DVI
Adapter (optional)

VGA output using Mini DisplayPort to
VGA Adapter (optional)

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

out (user-selectable analog audio line in)

- Supports Apple Stereo Headset with microphone

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

- **Highly recyclable aluminum and glass enclosure**
- **Mercury-free LED-backlit display**
- **Arsenic-free display glass**
- **BFR-free**
- **PVC-free internal cables**
- **Reduced packaging volume**
- **Meets ENERGY STAR Version 5.0 requirements**
- **Rated EPEAT Gold**

Input

- Built-in full-size backlit 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 two-finger scrolling, pinch, rotate, swipe, three-finger swipe, four-finger swipe, tap, double-tap, and drag capabilities

Processor and memory

- 2.26GHz or 2.53GHz Intel Core 2 Duo processor with 3MB on-chip shared L2 cache running 1:1 with processor speed
- 1066MHz frontside bus
- 2GB (two 1GB SO-DIMMs) or 4GB (two 2GB SO-DIMMs) of 1066MHz DDR3 memory; two SO-DIMM slots support up to 8GB

Standard Configurations
2.26 GHz or 2.53 GHz

Configure your MacBook Pro now, only at the Apple Online Store.

Storage

160GB or 250GB 5400-rpm Serial ATA hard drive; optional 320GB or 500GB 5400-rpm hard drive, or 128GB or 256GB solid-state drive [4]

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, DVD+RW; 24x CD

Battery and power[5]

Built-in 58-watt-hour lithium-polymer battery

60W MagSafe Power Adapter with cable management system

MagSafe power port

up to **7** hrs wireless productivity

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

Take it for a spin. View a QTVR of 13-inch MacBook Pro

What's in the box

- MacBook Pro
- Display cleaning cloth
- 60W MagSafe Power Adapter, AC wall plug, and power cord
- Install/restore DVDs
- Printed and electronic documentation

Software

- Mac OS X v10.5 Leopard (includes iTunes, Time Machine, Quick Look, Spaces, Spotlight, Dashboard, Mail, iChat, Safari, Address Book, QuickTime, iCal, DVD Player, Photo Booth, Front Row, Xcode Developer Tools)
- iLife '09 (includes iPhoto, iMovie, iDVD, iWeb, GarageBand)

13-inch Configurations

	2.26GHz MacBook Pro	2.53GHz MacBook Pro

	(MB990LL/A)	(MB991LL/A)
Enclosure	Precision aluminum unibody	
Processor	2.26GHz Intel Core 2 Duo	2.53GHz Intel Core 2 Duo
L2 cache	3MB shared	
System bus	1066MHz	
Memory	2GB (two 1GB SO-DIMMs) of 1066MHz DDR3 SDRAM; supports up to 8GB	4GB (two 2GB SO-DIMMs) of 1066MHz DDR3 SDRAM; supports up to 8GB
Hard drive[4]	160GB Serial ATA; 5400 rpm	250GB Serial ATA; 5400 rpm
Slot-loading optical drive	8x SuperDrive (DVD±R DL/DVD±RW/CD-RW)	
Graphics	NVIDIA GeForce 9400M graphics processor with 256MB of DDR3 SDRAM shared with main memory[3]	
Video	Built-in iSight camera; Mini DisplayPort output port with support for DVI, VGA, and dual-link DVI (requires adapters, sold separately)	
Display	13.3-inch (diagonal) LED-backlit glossy widescreen display, 1280-by-800 resolution	
Expansion	One FireWire 800 port (up to 800 Mbps), two USB 2.0 ports (up to 480 Mbps), SD card slot	
Audio	Built-in stereo speakers, built-in omnidirectional microphone, combined optical digital output/headphone out with selectable analog audio line in	
Networking	Built-in 10/100/1000BASE-T (Gigabit) Ethernet	
Wireless	Built-in AirPort Extreme Wi-Fi (based on IEEE 802.11n draft specification)[2]; built-in Bluetooth 2.1 + EDR (Enhanced Data Rate) module	
Hardware accessories	60W MagSafe Power Adapter, AC wall plug, power cord	
Limited warranty and service	Your MacBook Pro comes with 90 days of free telephone support and a one-year limited warranty. Purchase the AppleCare Protection Plan to extend your service and support to three years from your computer's purchase date. Only the AppleCare Protection Plan provides you with direct telephone support from Apple technical experts and the assurance that repairs will be handled by Apple-authorized technicians using genuine Apple parts. For more information, visit Apple support or call 800-823-2775.	
Apple and the global environment	Learn more about Apple's dedication to reducing the environmental impact of our products and processes. The Apple Product Environmental Specification details the environmental attributes of our products.	
Recycling	Apple takes a holistic view of materials management and waste minimization. Learn more about how to recycle your Mac.	

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.

- 500GB or 1TB server-grade hard drive
- Wi-Fi Certified for 802.11n draft 2.0
- USB port for connecting a USB printer or USB external hard drive

Configure to order

- 250GB (5400-rpm) hard drive
- 320GB (5400-rpm) hard drive
- 500GB (5400-rpm) hard drive
- 128GB solid-state drive
- 256GB solid-state drive
- Up to 8GB of 1066MHz DDR3 SDRAM
- Apple Remote
- Apple Mini DisplayPort to DVI Adapter
- Apple Mini DisplayPort to Dual-Link DVI Adapter
- Apple Mini DisplayPort to VGA Adapter
- MagSafe Airline Adapter
- AppleCare Protection Plan
- Aperture
- Final Cut Express
- Logic Express

- iWork '09

Accessories

- Apple LED Cinema Display
- AirPort Extreme Base Station
- AirPort Express Base Station
- Apple Wireless Keyboard
- Apple Wireless Mighty Mouse
- Apple Keyboard with Numeric Keypad
- Apple Wired Mighty Mouse

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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 May 2009 using preproduction 2.53GHz Intel Core 2 Duo-based MacBook Pro 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 processing document with display brightness set to 50%.

Which MacBook are you?

See what makes each Mac different.

Snow Leopard Up-to-Date

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