

MacBook Pro (Retina, 13-inch, Late 2012) – Technical Specifications

Display

- Retina display: 13.3-inch (diagonal) LED-backlit display with IPS technology
- 2560-by-1600 native resolution at 227 pixels per inch with support for millions of colors
- Scaled resolutions: 1680 by 1050, 1440 by 900, and 1024 by 640 pixels

Processor

2.5GHz

2.5GHz dual-core Intel Core i5 processor (Turbo Boost up to 3.1GHz) with 3MB shared L3 cache

- Configurable to 2.9GHz dual-core Intel Core i7 (Turbo Boost up to 3.6GHz) with 4MB shared L3 cache.

Memory

- 8GB of 1600MHz DDR3L onboard memory

Storage

- 128GB
Configurable to 256GB, 512GB, or 768GB flash storage.
- 256GB
Configurable to 512GB or 768GB flash storage.

Size and Weight

- Height: 0.75 inch (1.9 cm)
- Width: 12.35 inches (31.4 cm)
- Depth: 8.62 inches (21.9 cm)
- Weight: 3.57 pounds (1.62 kg)²

Graphics and Video Support

- Intel HD Graphics 4000
- Dual display and video mirroring: Simultaneously supports full native resolution on the built-in display and up to 2560 by 1600 pixels on up to two external displays, at millions of colors

Thunderbolt digital video output

- Native Mini DisplayPort output
- DVI output using Mini DisplayPort to DVI Adapter (sold separately)
- VGA output using Mini DisplayPort to VGA Adapter (sold separately)
- Dual-link DVI output using Mini DisplayPort to Dual-Link DVI Adapter (sold separately)

Camera

- 720p FaceTime HD camera

Connections and Expansion



- MagSafe 2 power port
- Two Thunderbolt ports (up to 10 Gbps)
- Two USB 3 ports (up to 5 Gbps)
- HDMI port
- Headphone port
- SDXC card slot
- Apple Thunderbolt to FireWire Adapter (sold separately)
- Apple Thunderbolt to Gigabit Ethernet Adapter (sold separately)

Wireless

- Wi-Fi
802.11n Wi-Fi wireless networking;³ IEEE 802.11a/b/g compatible
- Bluetooth
Bluetooth 4.0 wireless technology

Audio

- Stereo speakers
- Dual microphones
- Headphone port
 - Headphone/optical digital audio output (minijack)
 - Support for Apple iPhone headset with microphone

Keyboard and Trackpad

- Full-size backlit keyboard with 78 (U.S.) or 79 (ISO) keys, including 12 function keys and 4 arrow keys (inverted “T” arrangement) with ambient light sensor
- 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

Battery and Power

- Up to 7 hours wireless web
- Up to 30 days standby time
- Built-in 74-watt-hour lithium-polymer battery
- 60W MagSafe 2 Power Adapter with cable management system; MagSafe 2 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

Included Software

- OS X Mountain Lion: The world’s most advanced desktop operating system. Learn more
- Mac App Store
- Safari
- Mail
- Messages
- Calendar
- Contacts
- Reminders
- Notes
- Time Machine
- FaceTime
- Photo Booth
- Game Center
- iTunes
- iLife: iPhoto, iMovie, and GarageBand.

Limited Warranty and Service

Your MacBook Pro with Retina display 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.

In the Box

- MacBook Pro with Retina display
- MagSafe 2 Power Adapter
- AC wall plug
- Power cord

Configure to Order

Configure your MacBook Pro to order with these options, only at the Apple Online Store:

- 2.9GHz dual-core Intel Core i7 (Turbo Boost up to 3.6GHz) with 4MB shared L3 cache
- 256GB, 512GB, or 768GB of flash storage

MacBook Pro with Retina display and the Environment

Apple takes a complete product life cycle approach to determining our environmental impact. Learn more >

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

- Highly recyclable aluminum enclosure
- Mercury-free LED-backlit display
- Arsenic-free display glass
- BFR-free
- PVC-free⁵
- Meets ENERGY STAR Version 5.2 requirements
- Rated EPEAT Gold⁶
- Packaging volumes reduced by 25 percent for up to a 45 percent reduction in aircraft usage.

Apple and the Environment

Learn more about Apple's dedication to reducing the environmental impact of our products and process. Or read our Product Environmental Reports for detailed information on the environmental performance of every Apple product.

Recycling

Apple takes a holistic view of materials management and waste minimization. Learn more about how to recycle your Mac.

Acoustic Performance

DECLARED NOISE EMISSIONS in accordance with ISO 9296

	Sound Power Level L_{WA_d} (B) 1 B = 10 dB	Sound Pressure Level Operator Position L_{pAm} (dB)
Idle	2.5	6.0
Hard drive accessing	N/A	N/A
CD drive accessing	N/A	N/A

1. L_{WA_d} 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).

Accessories

Mac Software

- *iWork*
- *Aperture*
- *Logic Pro*
- *Final Cut Pro X*

Displays and Adapters

- *Apple Thunderbolt Display*
- *Apple Mini DisplayPort to DVI Adapter*
- *Apple Mini DisplayPort to VGA Adapter*
- *Apple Mini DisplayPort to Dual-Link DVI Adapter*>
- *MagSafe to MagSafe 2 Converter*

AirPort and Wireless

- *AirPort Express Base Station*
- *AirPort Extreme Base Station*
- *Time Capsule*

Other Accessories

- *Apple USB SuperDrive*
- *Thunderbolt to Gigabit Ethernet Adapter*
- *Thunderbolt to FireWire Adapter*
- *60W MagSafe 2 Power Adapter*
- *85W MagSafe 2 Power Adapter*
- *AppleCare Protection Plan*

1. 1GB=1 billion bytes; actual formatted capacity less.
2. Actual weight varies by configuration and manufacturing process.
3. 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.
4. Testing conducted by Apple in May 2012 using preproduction 2.6GHz quad-core Intel Core i7-based 15-inch MacBook Pro units. Testing conducted by Apple in September 2012 using preproduction 2.5GHz dual-core

Intel Core i5–based 13–inch MacBook Pro units. The wireless web test measures battery life by wirelessly browsing 25 popular websites with display brightness set to 50%. The standby test measures battery life by allowing a system, connected to a wireless network, to enter standby mode with Safari and Mail applications launched and all system settings left at default. Battery life varies by use and configuration. See www.apple.com/batteries for more information.

5. PVC–free AC power cord available in all regions except China mainland and South Korea.
6. MacBook Pro achieved a Gold rating from EPEAT in the U.S. and Canada.

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Support

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