

# MacBook Air (Mid 2009) - Technical Specifications

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## Size and weight

Height:

0.16-0.76 inch (0.4-1.94 cm)

Width:

12.8 inches (32.5 cm)

Depth:

8.94 inches (22.7 cm)

Weight:

3.0 pounds (1.36 kg)<sup>1</sup>

## Processor and memory

- 1.86GHz or 2.13GHz Intel Core 2 Duo processor with 6MB on-chip shared L2 cache running 1:1 with processor speed
- 1066MHz frontside bus
- 2GB of 1066MHz DDR3 SDRAM onboard

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

## Storage

- 120GB 4200-rpm Serial ATA hard disk drive or 128GB solid-state drive<sup>2</sup>
- Optional external USB MacBook Air SuperDrive

## Environmental status report

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

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

## 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 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; 720 by 480 pixels at 3:2 aspect ratio

## Graphics and video support

- NVIDIA GeForce 9400M graphics processor with 256MB of DDR3 SDRAM shared with main memory<sup>3</sup>
- 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
- 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)

## Input

- Built-in full-size keyboard with 78 (U.S.) or 79 (ISO) keys, including 12 function keys and 4 arrow keys (inverted "T" arrangement)
- Backlit keyboard with ambient light sensor for automatic adjustment of keyboard illumination and screen

brightness

- Solid-state trackpad with Multi-Touch gesture support for precise cursor control; supports two-finger scrolling, pinch, rotate, swipe, three-finger swipe, four-finger swipe, tap, double-tap, and drag capabilities

#### Wireless

- Built-in AirPort Extreme Wi-Fi wireless networking<sup>4</sup> (based on IEEE 802.11n draft specification); IEEE 802.11a/b/g compatible
- Built-in Bluetooth 2.1 + EDR (Enhanced Data Rate)

#### Peripheral connections

##### Audio

- Analog audio output/headphone out (minijack)
- Built-in mono speaker
- Built-in omnidirectional microphone

#### Battery and power<sup>5</sup>

- Integrated 40-watt-hour lithium-polymer battery
- 45W 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

#### 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)

#### What's in the box

- MacBook Air
- 45W MagSafe Power Adapter, AC wall plug, power cord
- Apple USB Ethernet Adapter
- Install/restore DVDs
- Display cleaning cloth
- Printed and electronic documentation

#### Configurations

	1.86GHz MacBook Air (MC233LL/A)	2.13GHz MacBook Air (MC234LL/A)
Enclosure	Precision aluminum unibody	
Processor	1.86GHz Intel Core 2 Duo	2.13GHz Intel Core 2 Duo
L2 cache	6MB shared	
System bus	1066MHz	
Memory	2GB of 1066MHz DDR3 SDRAM onboard	
Hard drive <sup>2</sup>	120GB 4200-rpm Serial ATA	128GB solid-state drive
Slot-loading optical drive	Optional external USB MacBook Air SuperDrive (sold separately)	
Graphics	NVIDIA GeForce 9400M graphics processor with 256MB of DDR3 SDRAM shared with main memory <sup>3</sup>	
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	
USB	One USB 2.0 port (up to 480 Mbps)	
Audio	Built-in mono speaker, built-in omnidirectional microphone, analog audio output/headphone out	

Networking	Apple USB Ethernet Adapter (included)
Wireless	Built-in AirPort Extreme Wi-Fi (based on IEEE 802.11n draft specification) <sup>4</sup> ; built-in Bluetooth 2.1 + EDR (Enhanced Data Rate) module
Hardware accessories	45W MagSafe Power Adapter, AC wall plug, power cord
Limited warranty and service	Your MacBook Air 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.

## Accessories

### MacBook Air SuperDrive

Play or burn discs directly with the external USB-based MacBook Air SuperDrive. Thin, light, and easy to take with you, this drive is designed specifically for MacBook Air.

- Slot-loading 8x SuperDrive (DVD±R DL/DVD±RW/CD-RW)
- Size: 139 x 139 x 17 mm / 5.47 x 5.47 x 0.67 inches (L x W x H)
- Weight: 320 g (0.71 pound)
- Requires MacBook Air with available USB 2.0 port

### MagSafe Airline Adapter

Plug into your airline seat power port and keep MacBook Air powered up for the entire flight.

Connect your MacBook Air to an external display or projector using one of these adapters.

### Mini DisplayPort to DVI Adapter

### Mini DisplayPort to Dual-Link DVI Adapter

### Mini DisplayPort to VGA Adapter

Time Capsule

AirPort Extreme Base Station

AirPort Express Base Station

Apple Wireless Keyboard

Apple Wireless Mighty Mouse

Apple USB Modem

AppleCare Protection Plan

1. Actual weight varies by configuration and manufacturing process.
2. 1GB=1 billion bytes; actual formatted capacity less.
3. Memory available to Mac OS X may vary depending on graphics needs. Minimum graphics memory usage is 256MB.
4. 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.
5. Testing conducted by Apple in May 2009 using preproduction 2.13GHz Intel Core 2 Duo-based MacBook Air units. Battery life depends on configuration and use. See [www.apple.com/batteries](http://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%.