

## Introducing the new 13-inch MacBook.

New design. New features. New technologies. All engineered to standards that don't even exist yet.



Gallery



### Precision aluminum unibody enclosure.

From one solid piece of aluminum comes a MacBook that's thin and light, beautifully streamlined, and durable. [Learn more](#) ▶

### Ultrathin 13.3-inch LED-backlit display.

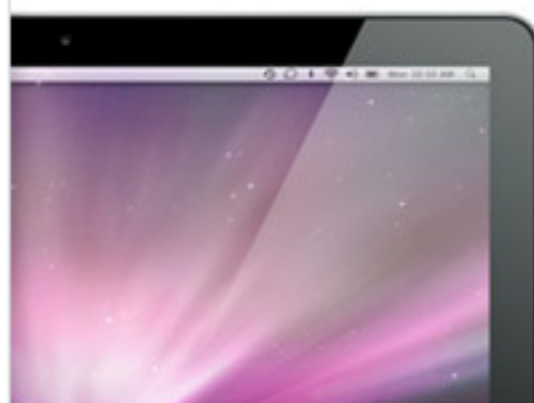
Seamless glass and instant full screen brightness make everything you see flat-out spectacular. Including the display itself. [Learn more](#) ▶

### Up to 5x faster NVIDIA graphics performance.

Advanced NVIDIA integrated graphics provide more responsive gameplay and more realistic 3D environments. [Learn more](#) ▶

### All-new, smooth glass Multi-Touch trackpad.

It's redesigned with even more room for even more gestures. Now the entire glass trackpad is also the button, so it's clickable everywhere. [Learn more](#) ▶





## Redesigned. Reengineered. Re-everythinged.

To build something truly different, you need to work in a truly different way. Apple designers and engineers work together through every stage of product development. It's a partnership that makes innovation possible. And it's exactly how the new MacBook was created. With its breakthrough unibody enclosure, industry-first features, and environmentally sound design, it's a revolution in the way notebooks are made.

**Until now, all notebooks were designed the same way.** By assembling multiple pieces to create a single enclosure. But once you include all the necessary parts, you add size, weight, complexity, and more opportunities for failure. Solving a problem like this required more than an incremental change. It required a breakthrough. To create the new MacBook, the design and engineering teams devised a way to replace many parts with just one. That one part is called the unibody — a seamless enclosure carved from a single piece of aluminum.



### Unibody Enclosure

Every MacBook starts its life as a single piece of aluminum. [View](#)

Of course, building only one part creates its own set of challenges. When you have multiple parts that are fastened together, tolerances don't need to be perfect. You have wiggle room, both literally and figuratively. But when one part is responsible for many functions, it's critical to manufacture that part with absolute precision, down to the micron. Every time. Millions of times over. There was only one way to achieve this level of precision: mill the unibody from a solid block of aluminum using computer numerical control, or CNC, machines — the kind used by the aerospace industry to build mission-critical spacecraft components.

When you pick up a new MacBook, you immediately notice the difference. The entire enclosure is thinner and lighter. It looks polished and refined. And it feels strong and durable — perfect for life inside (and outside) your briefcase or backpack.



### Interactive Gallery

Explore all the design innovations of the new MacBook. [View](#)

**The thickness of a notebook depends on the technology inside.** LCD displays typically use cold cathode fluorescent lamps, or CCFLs, to create light and project a picture onto a screen. But that poses two problems. First, these lamps require more space, so the display can be only so thin. Second, just like the fluorescent lights in your home or office, the ones inside a CCFL display take time to warm up before they reach full brightness. That's a lose-lose situation. And it's why Apple engineers chose LED backlight technology for the new MacBook.

An LED backlight creates the same amount of brightness in less space. So you can make the structure that houses an LED display much thinner. And unlike fluorescent lamps, an LED backlight reaches maximum brightness instantly.



Look at the MacBook display and you'll see another big difference. Glass. That edge-to-edge, uninterrupted glass display does more than look good. It also adds structure to the LED display beneath it. And there's no metal frame (another extraneous part) to distract you from what's onscreen.



### Multi-Touch Trackpad

The spacious glass MacBook trackpad is also a button. [View](#)

**The new MacBook trackpad has no button because it is the button.** That means there's more room to track, more room to click — left, right, center, and everywhere in between — and one less part. Apple designers and engineers spent countless hours considering things like sensitivity (how much pressure triggers a click?), audio feedback (what does the click sound like?), and friction over the smooth glass surface (what does it feel like?).

And that's just the hardware. Apple software engineers had a large part to play in the development of the trackpad, too. They incorporated Multi-Touch gestures, including swipe, pinch, rotate, and the new four-finger swipe. The result is the largest, smartest, most ergonomic MacBook trackpad ever. It's one of many details considered and reconsidered during the design process.

### There's a story behind each part.

Take the thumbscoop, for example. It's the indentation that allows you to open the display. If the scoop is too deep, you put too much pressure on the display to open it. If it's too shallow, you struggle to open the display. It may seem incidental, but if the thumbscoop is well designed, it makes the difference between a bad experience and a good one. The challenge of the thumbscoop was to create a crisply machined scoop that was still comfortable to use. The designers at Apple worked on hundreds of versions of the thumbscoop — even examining them under an electron microscope — to get it right.



Then there's the sleep indicator light. An indicator is functional only when it's indicating something. Look to the right of the thumbscoop. You see nothing. Until you close the display and your MacBook goes to sleep.

Then an LED glow appears from inside the enclosure. How? During the CNC process, a machine first thins out the aluminum. Then a laser drill creates small perforations for the LED light to shine through. These holes are so tiny that the aluminum appears seamless when the light is off.

**The marriage of electronics and mechanical design makes the new MacBook as advanced on the inside as it is on the outside.** The internal architecture has been reengineered from the silicon up. There's a new logic board. A new chipset. And a new integrated graphics processor — a feat of engineering in itself.

Many notebook computers sacrifice graphics performance in order to save battery life. The new MacBook offers the best of both worlds. The NVIDIA GeForce 9400M graphics processor provides up to five times the performance of the previous-generation MacBook without draining your battery. So you can experience high-performance graphics ideal for playing 3D games or watching video.



Because Apple designs both the hardware and the software for the new MacBook, it's easier to improve things like energy efficiency. Software tells the hard drive to spin down when it's not in use. It tells the display and battery indicator lights to dim in low-light conditions. And it helps decide whether the CPU or the graphics processor would be best suited to the task at hand. That's the kind of smart, integrated design that sets MacBook apart from other notebooks.

### Top-to-bottom integration also makes MacBook greener than other notebooks.

Complete control over how the new MacBook is designed, how it's manufactured, and how it's packaged gives Apple an environmental edge. Take the MacBook display, for instance. Conventional CCFL displays use mercury to create a backlight and arsenic to prevent irregularities in the glass. The LED-backlit display on the new MacBook, on the other hand, is both mercury- and arsenic-free. LED backlight technology also conserves energy: This display requires 30 percent less power than a CCFL display.



### A Greener Notebook

Made from recyclable aluminum and glass, the new MacBook is greener than ever. [View](#)

Mercury and arsenic aren't the only toxins absent from the new MacBook. Many computer manufacturers have only pledged to eliminate polyvinyl chloride (PVC) and brominated flame retardants (BFRs) from their enclosures and circuit boards. Apple is removing not only PVC and BFRs, but all forms of bromine and chlorine throughout the entire MacBook.

Just how green is the new MacBook? It's ENERGY STAR compliant, which means it meets the government standard for energy efficiency. It's also earned EPEAT Gold status, the highest standard for environmental performance in the electronics industry. And every new MacBook is shipped in packaging that's 41 percent smaller than any previous generation. That translates to fewer trees used for boxes and less fuel used to transport more MacBooks on fewer planes. And at the end of its long, productive life, you can recycle almost all of your MacBook.

**Only Apple could make a notebook like this.** Hardware and software. Design and engineering. Production and manufacturing. They're all part of a single process at Apple. When you start using your new MacBook, you'll discover what that means. The light and sturdy unibody protects the components inside. The LED-backlit display — along with the graphics processor that helps power it — gives you faster games and a brilliant canvas for your photos, movies, and more. The glass Multi-Touch trackpad feels as good as it functions. From the smallest detail to the biggest engineering breakthrough, the new MacBook truly is the next generation of notebooks.



### The New MacBook

[Watch the video](#)

## Beautifully engineered, inside and out.

From the stunning aluminum unibody to the powerful graphics architecture, the new MacBook makes progress a beautiful thing.



### Square one: a solid block of aluminum.

Instead of assembling a notebook from many minor parts, the new MacBook was reinvented from just one: the new, solid-aluminum unibody enclosure. It gets full credit for making MacBook thinner, lighter, and even more stunning. But it's not all beauty. Because of the unibody, this MacBook is also durable. It was designed to take on your world. So slip it into your backpack or briefcase and pull it out wherever you go — it's impressive in any setting.

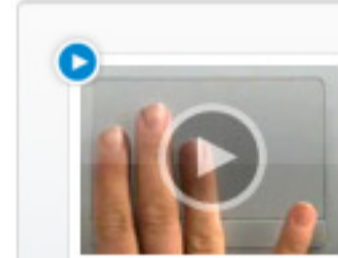


### Even the keyboard is advanced.

The MacBook keyboard is solid, responsive, and comfortable. Just put your fingers on the crisp keys and you'll feel pure typing bliss. An illuminated keyboard, a popular feature of MacBook Pro and MacBook Air, now comes standard on the 2.4GHz MacBook model. So when you're in low-light settings such as airports or lecture halls, you can always see what you're typing. It's a luminous feature for anyone on the go.

### Hey, where's the button?

The amazing new trackpad doubles as a button — just press down anywhere and consider it clicked. No separate button means there's 39 percent more room for your fingers to move on the silky glass surface. Now that Multi-Touch gestures have come to MacBook, all the function is in your fingers. Use two fingers to scroll up and down a page. Pinch to zoom in and out. Swipe with three fingers to flip through your photo libraries. Rotate to adjust an image with your fingertips. Using the new four-finger swipe gesture, swipe up or down to access Exposé modes and left or right to switch between open applications. If you're coming from a right-click world, you can right-click with two fingers or configure a right-click area on the trackpad. The more you use the Multi-Touch trackpad, the more you'll wonder what you ever did without it.



### All-new Multi-Touch trackpad

Multi-Touch comes to MacBook in a spacious, silky-smooth trackpad that is also the button.

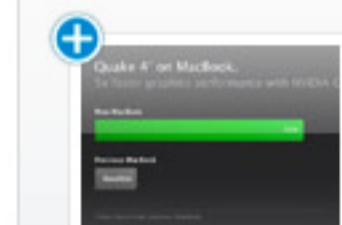
### Simply stunning.

The beautifully seamless, remarkably thin design isn't the only gleaming quality of the LED-backlit display. Open your MacBook and you're instantly greeted by glorious full screen brightness. The aluminum enclosure is perfectly integrated with a glass overlay that stretches to the edge of the notebook, providing a completely unobstructed picture. Anything you view, including the glossy widescreen display itself, is a spectacular experience. The LED-backlit display is more power efficient. And it's mercury- and arsenic-free, so it's greener than ever.



### Cooler creatures. Richer worlds.

The NVIDIA GeForce 9400M brings up to five times faster, discrete-level graphics performance to MacBook.<sup>1</sup> That means high-end, high-speed 3D game-playing power. Graphics-intensive features in iPhoto and iMovie are smooth and responsive. Movies and video offer rich colors and fine details. NVIDIA performance even makes a difference as you flip through your music library with Cover Flow or use the Dashboard.



### Graphics Performance

The NVIDIA GeForce 9400M delivers up to 5x faster graphics performance.



### Take it all along.

With a hard drive up to 320GB,<sup>2</sup> you can load MacBook with movies, photos, and documents and take everything with you. You also have the option to upgrade to a 128GB solid-state drive, which has no moving parts, for enhanced durability. With the ultrafast 8x SuperDrive, burn everything you watch, listen to, or create onto DVDs and make room for even more.



### Ports with possibilities.

MacBook is iPod, iPhone, digital camera, and external hard drive ready. You'll find two USB 2.0 ports to connect a wide variety of peripherals. You'll also see a Mini DisplayPort — a perfect fit for the new Apple LED Cinema Display. The MagSafe power port gives you a trip-proof connection to safeguard your system and valuable data. And you can use the Kensington lock slot to protect your MacBook, battery, and hard drive.



### Think fast.

Inside the new MacBook is a powerful Intel Core 2 Duo processor running at speeds up to 2.4GHz. MacBook also boasts an increased 1066MHz frontside bus and next-generation 1066MHz DDR3 memory. That faster memory lets you quickly and easily manipulate large, complex files and keep more applications open at once.



MagSafe power    Gigabit Ethernet    USB 2.0    Mini DisplayPort    Audio in    Audio out    Kensington lock slot    Battery indicator lights

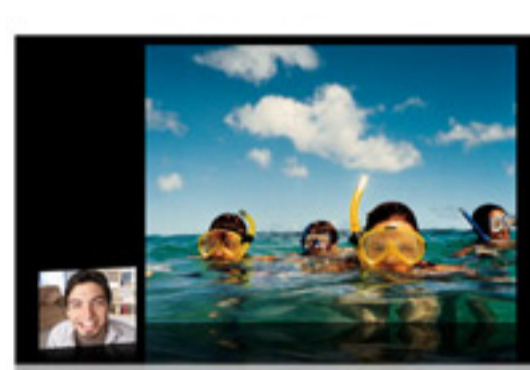
### Mobility mastered.

Wherever you go, wireless capabilities go with you. With the latest 802.11n wireless technology built into MacBook, you're always connected to the wireless world out there, at home, and at work.<sup>3</sup> It's seamless and effortless to connect to a Wi-Fi network and surf the web, send email, video chat, and more. With up to 5 hours of wireless productivity battery life, consider yourself a free agent.<sup>4</sup> At home, stream music wirelessly from your couch. Rent movies wirelessly with iTunes. And print documents or photos from anywhere. For an instantly ideal workspace, connect your MacBook to the new Apple LED Cinema Display. MacBook also includes Bluetooth capabilities, so brilliant accessories such as the optional Apple Wireless Keyboard and wireless Mighty Mouse free your desk from cables and cords.



### You. In two places at once.

Cleverly integrated — almost hidden — at the top of the MacBook display is an iSight camera. Use it with iChat, and you can be anywhere without actually being there. Video chat with a buddy, share a photo slideshow with Mom, or run through a presentation with a colleague.<sup>5</sup> Use iSight with Photo Booth for fun photo effects. And there's no need to waste valuable priming time installing software or configuring the camera. Like everything Mac, iSight just works.



Window Help

## Your own team of experts.

Every new MacBook comes with professional advice, award-winning service and support, a world of online resources, and thousands more reasons to love your MacBook.



### AppleCare

Every MacBook comes with 90 days of free telephone technical support and a one-year limited warranty. But if you purchase the AppleCare Protection Plan for your MacBook, you can extend that coverage to three years from the original purchase date.



### The Genius Bar

Have questions or need hands-on technical support? Get friendly, expert advice at the Genius Bar in any Apple Retail Store. Apple-trained Geniuses can answer all your technical questions, troubleshoot problems, and even make repairs.



### Online Tutorials

Everything you need to know about your MacBook is online at Apple.com. Watch video tutorials to learn, Mac OS X, Aperture, and more. Learn some new MacBook tricks. Get MacBook tips. And find out how to love your MacBook even more.

1. Testing conducted by Apple in October 2008 using preproduction 2.4GHz Intel Core 2 Duo-based MacBook units with NVIDIA GeForce 9400M. MacBook systems with 2.4GHz Core 2 Duo and Intel GMA X3100 were shipping units. MacBook continuously monitors system thermal and power conditions, and may adjust processor speed as needed to maintain optimal system operation.  
 2. 1GB = 1 billion bytes; actual formatted capacity less. 320GB hard drive available as a configure-to-order option.  
 3. Based on an IEEE 802.11n draft specification. 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 October 2008 using preproduction 2.4GHz Intel Core 2 Duo-based MacBook 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%.  
 5. Video chatting requires a broadband Internet connection; fees may apply.



## What a quantum leap looks like.

With a first-of-its-kind integrated graphics processor that delivers up to five times the performance in half the size, the new MacBook changes the game — and just about everything else you do on a notebook.

### More performance. Less space.

Many notebooks skimp on graphics performance in favor of a smaller design. But the new MacBook uses a graphics processor that economizes space in a whole new way. A traditional computer logic board contains multiple components: the CPU, two chips that control communication throughout the computer, and the graphics processor. The logic board in the new MacBook contains only two components: The CPU and a graphics processor with all of the core logic built into a single chip. That graphics processor is the NVIDIA GeForce 9400M, and it helps MacBook reach new levels of gaming performance — without sacrificing battery life.



### Play faster.

Games get up to a 5x performance boost in the new MacBook.<sup>1</sup> Power your way through the 3D environments of Quake, Call of Duty, and Spore. Enjoy faster, smoother, more responsive gameplay. And marvel at how great those game graphics look: They're crisper, they're more finely detailed, and they make the most of the brilliant LED-backlit display.





**Graphics Performance**

The NVIDIA GeForce 9400M delivers up to 5x faster graphics performance.

### Create faster.

The new MacBook is perfect for iLife applications, too. Whether you're flipping through vacation photos in iPhoto, editing a family flick in iMovie, or building your own blog in iWeb, the new MacBook helps you create and enjoy photos, movies, and websites with ease.



### Work faster.

The new MacBook makes quick work of iWork applications.<sup>2</sup> Big Keynote presentation? Great graphics performance means that your transitions (especially that really snazzy one) play smoothly, slides build without delays, and finely detailed graphics render perfectly.

### Do everything else faster.

At the heart of every MacBook is Mac OS X Leopard. At the heart of Leopard is Core Animation: the technology that powers visually stunning user interfaces and application animations. It's what makes iChat effects, Cover Flow, Time Machine, and hundreds of other graphical elements in Mac OS X possible. The improved graphics performance of the new MacBook makes everything you do in Mac OS X smooth and responsive.



### Mini DisplayPort.

The new MacBook has a small port that makes a big difference. The Mini DisplayPort is a brand-new, industry-standard port. It delivers a pure digital connection to external displays — even large 30-inch displays — quickly and without a glitch. No more multiple-pin connectors with unwieldy screws; the ultracompact Mini DisplayPort gives you plug-and-play performance with the new Apple LED Cinema Display. And it supports VGA, DVI, and dual-link DVI connections, too.



## Get the (really) big picture.

With a MacBook, you can work or play anywhere. But there are times when great graphics performance dispassionately begs for more pixels. Introducing the Apple LED Cinema Display: the first display designed specifically for the new MacBook.

The new 24-inch Apple LED Cinema Display transforms your MacBook into a desktop computer in seconds. Plug in three simple connectors — Mini DisplayPort, USB, and MagSafe — and suddenly you have more room to work and play, plenty of space for peripherals, and an automatic charge for your MacBook. You don't even need to take the power adapter out of your bag. And instantly, everything you see is bigger, brighter, and even more brilliant.



1. Testing conducted by Apple in October 2008 using preproduction 2.4GHz Intel Core 2 Duo-based MacBook units with NVIDIA GeForce 9400M. MacBook systems with 2.4GHz Core 2 Duo and Intel GMA X3100 were shipping units. MacBook continuously monitors system thermal and power conditions, and may adjust processor speed as needed to maintain optimal system operation.

2. iWork is sold separately.



## Software. Integrated.

Every MacBook comes with software designed to let all your photos, videos, and content work together.

### Mac OS X

Leopard, the latest release of Mac OS X, is loaded with features that let you do more.



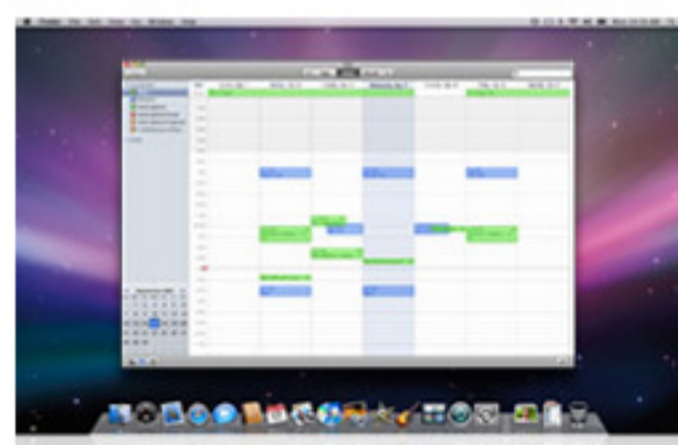
#### Safari

The world's fastest web browser includes security features to enhance your online experience.



#### Mail

Mail simplifies email with smart organizational tools. It also incorporates convenient notes and to-do features.



#### Address Book and iCal

iCal, the streamlined calendar program, and Address Book are integrated with Mail for easy and seamless day planning.



#### Time Machine

Backing up your files has just gotten a lot easier. See how your system looked on a given day and restore files with a click.



#### iChat

Video chat with up to three people, deliver presentations with iChat Theater, and of course, send instant messages.



#### Boot Camp

For those times when you need to use a Windows application, Boot Camp lets you start up your Mac in Windows.

### iLife

Discover new ways to enjoy and share photos and movie clips, create websites, and more.



#### iPhoto

iPhoto organizes your digital photos and makes it easy for you to browse, edit, and share them with the world.



#### iMovie

iMovie makes viewing, enjoying, and sharing your video intuitive. Publishing to the Internet has never been easier.



#### GarageBand

Whether you're a first-time musician or a seasoned pro, GarageBand is your personal recording studio.

### Get even more out of your Mac



#### iWork

Streamlined word processing, stunning presentations, and now spreadsheets. Work wonders, without the work.



#### Bento

Bento brings your important information together in one place to help you get organized.



#### Office

Made for the Mac, Microsoft Office lets you use Word, PowerPoint, and Excel without compatibility issues.



#### Aperture 2

Now it's even easier to enhance images, manage massive libraries, and deliver stunning photos.



#### Final Cut Express 4

Get powerful video editing tools at an affordable price. It's the easiest way to join the Final Cut revolution.



#### Logic Express 8

Translate musical inspiration into professional recordings. Logic Express puts sophisticated tools at your fingertips.

# The greenest MacBook ever.

Highly recyclable and even more energy efficient, the new MacBook is designed with the environment in mind.



[View a PDF of Apple's Environmental Status Report](#)



## Environmental Status Report



The new 13-inch MacBook embodies Apple's continuing environmental commitment. It is designed with the following features to reduce its environmental impact:

- Arsenic-free glass
- Brominated flame retardant-free
- Mercury-free
- PVC-free
- 41% smaller packaging
- Highly recyclable aluminum and glass enclosures

### Apple is most proud of what isn't in MacBook.

What's common in other notebooks is missing in the new MacBook. Take, for example, mercury used in CCFL backlights and arsenic contained in the glass of traditional LCD displays. Apple engineers have said no to both. They've chosen LED technology and arsenic-free glass. They've also said no to brominated flame retardants (BFRs) in logic boards and PVC in cables and connectors. In fact, Apple has done more than remove these toxins from the new MacBook. They've done the same for the rest of the new MacBook family, the Apple LED Cinema Display, every iPod, and iPhone 3G. Sometimes saying no is a good thing.

### Fewer parts. Greener parts.

The new MacBook is built with significantly fewer parts. And the parts that remain are significantly greener. Take the unibody, the foundation of the notebook itself. It's a single piece of solid, recyclable aluminum that replaces dozens of extraneous pieces once destined for landfill.



### Small volume speaks volumes.

Made from recycled material, the new MacBook packaging is 41 percent smaller than the previous generation. And that's huge. It means less paper used for smaller boxes. It also means Apple can use fewer planes to transport the same number of products.



### A more energy-efficient notebook.

Because Apple makes its own hardware and software, it's able to create smarter products that use less electricity. To reduce energy consumption, the hard drive spins down automatically when it's inactive. To be more efficient, the display dims when you enter a darkened room. The processor even throttles down to save power between keystrokes as you type. MacBook also decides which processor — CPU or GPU — is best suited to efficiently perform a task. All these little adjustments add up. When it's turned on, the new MacBook uses one quarter the power of a single lightbulb.

The new MacBook LED-backlit display is another environmental breakthrough. LED technology uses 30 percent less power than conventional LCD displays. The LED-backlit display is mercury-free, highly recyclable, and encased in arsenic-free glass.



MacBook meets the stringent low power requirements set by the EPA and the U.S. Department of Energy, giving it ENERGY STAR certification.

### EPEAT Gold

Because MacBook is environmentally innovative, it has earned the highest rating of EPEAT Gold. The Electronic Product Environmental Assessment Tool, or EPEAT, evaluates the environmental impact of a product based on how recyclable it is, how much energy it uses, and how it's designed and manufactured. Few products achieve EPEAT Gold status — and even fewer notebooks.



### Useful today. And tomorrow.

After its long and productive life, your MacBook is almost entirely recyclable. MacBook is made from materials like aluminum and glass, making it highly desirable to recyclers. And highly unlikely that its parts will end up in a landfill. This also makes it possible for the raw materials in MacBook to be used again later in other types of products. And Apple offers recycling services in nearly all countries where Apple products are sold.



### A commitment that starts with products.

When it comes to being environmentally friendly, Apple approaches the challenge differently — through products like the new MacBook. Unlike other companies, Apple controls every aspect of the production of its computers. So Apple designers and engineers can minimize their carbon footprint in ways others can't. They design them with fewer parts. They build them using recyclable materials. They even create software that makes them more energy efficient. The result is a new standard in green design.

[Download Environmental Status Report](#)

### Which MacBook are you?

Learn what makes each one different.



### LED Cinema Display

Made precisely for the new MacBooks.



### Apple and the Environment

Find out how Apple is making greener products for a healthier environment.



### MacBook

Buy Now



Shop the [Apple Online Store](#).  
Find an [Apple Retail Store](#).  
Find your [local authorized reseller](#).  
Call 1-800-MY-APPLE.

## Technical Specifications

### Size and weight

Height:	<b>0.95</b> inch (2.41 cm)
Width:	<b>12.78</b> inches (32.5 cm)
Depth:	<b>8.94</b> inches (22.7 cm)
Weight:	<b>4.5</b> pounds (2.04 kg) <sup>1</sup>



### Connections and expansion



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

### Communications

- Built-in AirPort Extreme Wi-Fi wireless networking<sup>2</sup> (based on IEEE 802.11n draft specification); IEEE 802.11a/b/g compatible
- Built-in Bluetooth 2.1 + EDR (Enhanced Data Rate)
- Built-in 10/100/1000BASE-T Gigabit Ethernet (RJ-45 connector)



### Audio

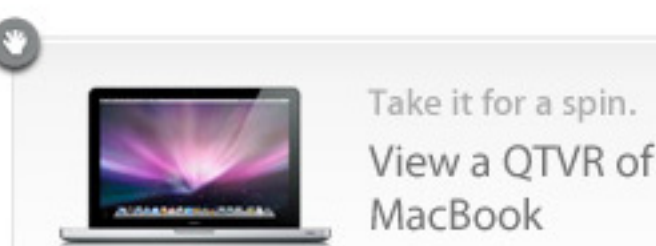
- Built-in stereo speakers
- Built-in omnidirectional microphone
- Combined optical digital input/analog line in (minijack)
- Combined optical digital output/analog line out (minijack)
- Supports Apple Stereo Headset with microphone

### Environmental Status Report



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

- Highly recyclable aluminum and glass enclosure
- Mercury-free LED-backlit display
- Arsenic-free glass
- BFR-free internal components
- PVC-free internal cables
- Meets ENERGY STAR requirements
- EPEAT Gold rating



### 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



### 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

### Input



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

### 2.0GHz MacBook

- Built-in full-size keyboard with 78 (U.S.) or 79 (ISO) keys, including 12 function keys and 4 arrow keys (inverted "T" arrangement)

### 2.4GHz MacBook

- Built-in full-size illuminated keyboard with 78 (U.S.) or 79 (ISO) keys, including 12 function keys and 4 arrow keys (inverted "T" arrangement)

### Processor and memory

- 2.0GHz or 2.4GHz 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) of 1066MHz DDR3 SDRAM; two SO-DIMM slots support up to 4GB



Standard Configurations **2.0GHz or 2.4GHz**

### Storage

#### 2.0GHz MacBook

- 160GB 5400-rpm Serial ATA hard disk drive<sup>4</sup>
- Optional 250GB or 320GB 5400-rpm hard drive or 128GB solid-state drive<sup>4</sup>



#### 2.4GHz MacBook

- 250GB 5400-rpm Serial ATA hard disk drive<sup>4</sup>
- Optional 320GB 5400-rpm hard drive or 128GB solid-state drive<sup>4</sup>

### Optical drive

- 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 power<sup>5</sup>



- 45-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

### What's in the box

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



### Installed software

- Mac OS X v10.5 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 '08 (includes iTunes, iPhoto, iMovie, iDVD, iWeb, GarageBand)

### Configurations

	2.0GHz MacBook (MB466LL/A)	2.4GHz MacBook (MB467LL/A)
<b>Enclosure</b>	Precision aluminum unibody	
<b>Processor</b>	2.0GHz Intel Core 2 Duo	2.4GHz Intel Core 2 Duo
<b>L2 cache</b>	3MB shared	
<b>System bus</b>	1066MHz	
<b>Memory</b>	2GB (two 1GB SO-DIMMs) of 1066MHz DDR3 SDRAM (PC3-8500); supports up to 4GB	
<b>Hard drive<sup>4</sup></b>	160GB Serial ATA; 5400 rpm	250GB Serial ATA; 5400 rpm
<b>Slot-loading optical drive</b>	8x SuperDrive (DVD±R DL/DVD±RW/CD-RW)	
<b>Graphics</b>	NVIDIA GeForce 9400M graphics processor with 256MB of DDR3 SDRAM shared with main memory <sup>3</sup>	
<b>Video</b>	Built-in iSight camera; Mini DisplayPort output port with support for DVI, VGA, and dual-link DVI (requires adapters, sold separately)	
<b>Display</b>	13.3-inch (diagonal) LED-backlit glossy widescreen display, 1280-by-800 resolution	
<b>USB</b>	Two USB 2.0 ports (up to 480 Mbps)	
<b>Audio</b>	Built-in stereo speakers, built-in omnidirectional microphone, combined optical digital input/analog line in, combined optical digital output/analog line out	
<b>Networking</b>	Built-in 10/100/1000BASE-T (Gigabit) Ethernet	
<b>Wireless</b>	Built-in AirPort Extreme Wi-Fi (based on IEEE 802.11n draft specification) <sup>2</sup> ; built-in Bluetooth 2.1 + EDR (Enhanced Data Rate) module	
<b>Hardware accessories</b>	60W MagSafe Power Adapter, AC wall plug, power cord, lithium-polymer battery	
<b>Limited warranty and service</b>	Your MacBook comes with 90 days of free telephone support and a one-year limited warranty. Purchase the <a href="#">AppleCare Protection Plan</a> 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 <a href="#">Apple support</a> or call 800-823-2775.	
<b>Apple and the global environment</b>	<a href="#">Learn more</a> about Apple's dedication to reducing the environmental impact of our products and processes. <a href="#">The Apple Product Environmental Specification</a> details the environmental attributes of our products.	
<b>Recycling</b>	Apple takes a holistic view of materials management and waste minimization. <a href="#">Learn more</a> 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

- 160GB (5400-rpm) hard drive
- 250GB (5400-rpm) hard drive
- 320GB (5400-rpm) hard drive
- 128GB solid-state drive
- Up to 4GB of 1066MHz DDR3 SDRAM
- Apple Remote (MA128G/B)
- Apple USB Modem (MA034Z/A)
- Apple Mini DisplayPort to DVI Adapter (MB570)
- Apple Mini DisplayPort to Dual-Link DVI Adapter (MB571)
- Apple Mini DisplayPort to VGA Adapter (MB572)
- MagSafe Airline Adapter (MB441Z/A)
- AppleCare Protection Plan (MB578LL/A)
- Aperture 2 (MB673Z/A)
- Final Cut Express (MB278Z/A)
- Logic Express (MA806LL/A)
- iWork '08 (MB624/A)

#### Accessories

- Apple LED Cinema Display (MB382LL/A)
- AirPort Extreme Base Station (MB053LL/A)
- AirPort Express Base Station (MB321LL/A)
- Apple Wireless Keyboard (MB167LL/A)
- Apple wireless Mighty Mouse (MB111LL/A)
- Apple Keyboard (MB110LL/A)
- Apple wired Mighty Mouse (MB112LL/A)
- Rechargeable Battery for MacBook (MB771)

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

5. 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%.