

	<b>15.4-inch: 2.2GHz(MA895LL/A)</b>
<b>Display</b>	15.4-inch (diagonal), 1440 by 900 resolution, TFT widescreen
<b>Processor</b>	2.2GHz Intel Core 2 Duo processor, 4MB on-chip shared L2 cache
<b>Memory</b>	2GB (two SO-DIMMs) 667MHz DDR2 SDRAM (PC2-5300)
<b>PCI Express graphics</b>	NVIDIA GeForce 8600M GT with 128MB of GDDR3 SDRAM and dual-link DVI
<b>Hard disk drive<sup>3</sup></b>	160GB Serial ATA; 5400 rpm
<b>Slot-loading optical drive</b>	8x SuperDrive (DVD±R DL/DVD±RW/CD-RW)
<b>Expansion</b>	One FireWire 400, one FireWire 800, two USB 2.0 ports, and ExpressCard/34 slot
<b>Video</b>	Built-in iSight camera, DVI, VGA (DVI to VGA adapter included)
<b>Audio</b>	Combined optical digital input/audio line in, combined optical digital output/headphone out, stereo speakers, microphone
<b>Ethernet</b>	Built-in 10/100/1000BASE-T (Gigabit)
<b>Wireless<sup>2</sup></b>	Built-in AirPort Extreme (802.11n); built-in Bluetooth 2.0+EDR
<b>Modem</b>	Apple USB Modem (sold separately)
<b>Input</b>	Apple Remote; full-size, illuminated keyboard with ambient light sensor; scrolling trackpad
<b>Weight<sup>4</sup></b>	5.4 pounds
<b>Footprint</b>	14.1 by 9.6 inches
<b>Thickness</b>	1.0 inch
<b>Video accessories</b>	DVI to VGA adapter (other adapters sold separately)
<b>Hardware</b>	85W MagSafe Power Adapter, AC wall plug,

<b>accessories</b>	power cord, lithium-polymer battery
<b>Apple and the global environment</b>	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.
<b>Recycling</b>	Apple takes a holistic view of materials management and waste minimization. Learn more about how to recycle your Mac.

## Technical Specifications

### In the box

- MacBook Pro
- 85W MagSafe Power Adapter, AC wall plug, and power cord
- Lithium-polymer battery
- Apple Remote
- DVI to VGA adapter
- Install/restore DVDs
- Printed and electronic documentation

### Processor and memory

- 15-inch MacBook Pro 2.2GHz Intel Core 2 Duo processor, 4MB on-chip shared L2 cache running 1:1 with processor speed
- 2GB (two SO-DIMMs) of PC2-5300 (667MHz) DDR2 memory; two SO-DIMM slots support up to 4GB
- 800MHz frontside bus

### Expansion

- One FireWire 400 port at up to 400 Mbps
- One FireWire 800 port at up to 800 Mbps
- Two 480-Mbps USB 2.0 ports
- ExpressCard/34 slot

### Security

- Kensington cable lock slot

## **Battery and power**

- 60-watt-hour lithium-polymer battery (with integrated charge indicator LEDs) providing up to 6 hours of battery life<sup>1</sup>
- 85W MagSafe Power Adapter with cable management system
- MagSafe power adapter port

## **Communications**

- Built-in AirPort Extreme Wi-Fi wireless networking (based on an IEEE 802.11n draft specification); IEEE 802.11a/b/g compatible<sup>2</sup>
- Built-in Bluetooth 2.0+EDR (Enhanced Data Rate)
- Built-in 10/100/1000BASE-T Gigabit Ethernet (RJ-45 connector)

## **Audio**

- Combined optical digital input/audio line in (minijack)
- Combined optical digital output/headphone out (minijack)
- Built-in stereo speakers
- Internal omnidirectional microphone (located under left speaker grille)

## **Display**

- 15.4-inch (diagonal) TFT LED backlit display with support for millions of colors; optional glossy widescreen display
- Supported resolutions: 1440 by 900 (native), 1280 by 800, 1152 by 720, 1024 by 640, and 800 by 500 at 16:10 aspect ratio; 1024 by 768, 800 by 600, and 640 by 480 at 4:3 aspect ratio; 1024 by 768, 800 by 600, and 640 by 480 at 4:3 aspect ratio stretched; 720 by 480 at 3:2 aspect ratio; 720 by 480 at 3:2 aspect ratio stretched

## Video and graphics support

- NVIDIA GeForce 8600M GT graphics processor with dual-link DVI support; 128MB of GDDR3 SDRAM on 2.2GHz configuration
- 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
- DVI output port
- VGA output using included DVI to VGA adapter
- Built-in iSight camera

## Storage

- 160GB 5400-rpm Serial ATA hard 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, DVD+RW; 24x CD

## Input

- Built-in full-size keyboard with 78 (U.S.) or 79 (ISO) keys, including 12 function keys, 4 arrow keys (inverted “T” arrangement), and embedded numeric keypad
  - Backlit keyboard with ambient light sensors for automatic adjustment of keyboard illumination and screen brightness
- Solid-state scrolling trackpad for precise cursor control; supports two-finger scrolling, tap, double-tap, and drag capabilities
- Apple Remote

## Electrical and environmental requirements

- Meets ENERGY STAR requirements
- Line voltage: 100V to 240V AC
- Frequency: 50Hz to 60Hz

- DC input: 18.5 Vdc, 4.6A maximum
- 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

## Size and weight

- 15-inch MacBook Pro
  - Height: 1.0 inch (2.59 cm)
  - Width: 14.1 inches (35.7 cm)
  - Depth: 9.6 inches (24.3 cm)
  - Weight: 5.4 pounds (2.45 kg) with battery and optical drive installed<sup>4</sup>

## Options (ter informatie)

- Apple USB Modem (MA034Z/A)
- Apple Wireless Keyboard (MB167LL/A)
- Apple Keyboard (MB110LL/A)
- Apple wireless Mighty Mouse (MB111LL/A)
- Apple Mighty Mouse (MB112LL/A)
- .Mac Subscription (MA927Z/A)
- AppleCare Protection Plan (MA515LL/A)

## Online store options

- Up to 4GB main memory
- AirPort Extreme Base Station (MA073LL/A)
- AirPort Express (M9470LL/A)
- Apple DVI to Base Station Video Adapter (M9267G/A)
- Apple 85W MagSafe Power Adapter (MA938LL/A)
- MagSafe Airline Adapter (MA598Z/A)

- Rechargeable Battery, 15-inch MacBook Pro (MA348G/A)
- Rechargeable Battery, 17-inch MacBook Pro (MA458G/A)
- World Travel Adapter Kit (M8794G/B)
- iWork '08 (MA790Z/A)

1. Battery life depends on configuration and use.
2. Wireless Internet access requires base station or other wireless access point and Internet access (fees may apply). Some ISPs are not currently compatible with AirPort. Range may vary with site conditions.
3. 1GB = 1 billion bytes; actual formatted capacity less.
4. Actual weight varies by configuration and manufacturing process.