Standard MacBook Pro 15”

Display
- Retina display: 15.4-inch (diagonal) LED-backlit display with IPS technology; 2880-by-1800 resolution at 220 pixels per inch with support for millions of colors
- Native resolution: 2880 by 1800 pixels (Retina); scaled resolutions: 1920 by 1200, 1680 by 1050, 1280 by 800, and 1024 by 640 pixels

Processor
- 2.2GHz quad-core Intel Core i7 processor (Turbo Boost up to 3.4GHz) with 6MB shared L3 cache
- Configurable to 2.5GHz quad-core Intel Core i7 (Turbo Boost up to 3.7GHz) with 6MB shared L3 cache or 2.8GHz quad-core Intel Core i7 (Turbo Boost up to 4.0GHz) with 6MB shared L3 cache.

Memory
- 16GB of 1600MHz DDR3L onboard memory

Storage
- 256GB PCIe-based flash storage
- Configurable to 512GB or 1TB flash storage

Size and Weight

- Height: 0.71 inch (1.8 cm)
- Width: 14.13 inches (35.89 cm)
- Depth: 9.73 inches (24.71 cm)
- Weight: 4.46 pounds (2.02 kg)
**Graphics and Video Support**

- Intel Iris Pro Graphics
- 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, both at millions of colors.

**Thunderbolt digital video output**

- Native Mini DisplayPort output
- DVI, VGA, dual-link DVI, and HDMI output supported using Mini DisplayPort adapters (sold separately)

**HDMI video output**

- Support for 1080p resolution at up to 60Hz
- Support for 3840-by-2160 resolution at 30Hz
- Support for 4096-by-2160 resolution at 24Hz

**Camera**

- 720p FaceTime HD camera

**Connections and Expansion**

- MagSafe 2 power port
- Two Thunderbolt 2 ports (up to 20 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)
**Audio**
- Stereo speakers
- Dual microphones
- Headphone port
  - Support for Apple iPhone headset with remote and microphone
  - Support for audio line out (digital/analog)

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

**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 8 hours wireless web
- Up to 8 hours iTunes movie playback
- Built-in 95-watt-hour lithium-polymer battery
- 85W MagSafe 2 Power Adapter with cable management system; MagSafe 2 power port

**Operating System**
- OS X Yosemite