## MacBook 13" Standards

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<th>Processor &amp; Chipset</th>
<th>Memory</th>
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<th>Network &amp; Communication</th>
<th>Built-in Devices</th>
<th>Software</th>
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<tbody>
<tr>
<td>Processor Manufacturer: Intel</td>
<td>Standard Memory: 4 GB</td>
<td>Hard Drive Capacity: 500 GB</td>
<td>WiFi: Yes</td>
<td>Webcam: Yes</td>
<td>Operating System: Mac OS X Lion</td>
</tr>
<tr>
<td>Processor Type: Core i5</td>
<td>Maximum Memory: 8 GB</td>
<td>Hard Drive Interface: Serial ATA</td>
<td>Wi-Fi Standard: IEEE 802.11a/b/g/n</td>
<td>Microphone: Yes</td>
<td>Software Included</td>
</tr>
<tr>
<td>Processor Speed: 2.50 GHz</td>
<td>Memory Technology: DDR3 SDRAM</td>
<td>Hard Drive RPM: 5400</td>
<td>Ethernet Technology: Gigabit Ethernet</td>
<td>Speakers: Yes</td>
<td>Mail</td>
</tr>
<tr>
<td>Processor Core: Dual-core (2 Core)</td>
<td>Memory Standard: DDR3-1600/PC3-12800</td>
<td></td>
<td>Bluetooth: Yes</td>
<td>Interfaces/Ports</td>
<td>Address Book</td>
</tr>
<tr>
<td>Cache: 3 MB</td>
<td>Memory Card Reader: Yes</td>
<td>Bluetooth Standard: Bluetooth 4.0</td>
<td></td>
<td>FireWire/i.LINK: Yes</td>
<td>iCal</td>
</tr>
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## MacBook 15" Standards

<table>
<thead>
<tr>
<th>Display &amp; Graphics</th>
<th>Network &amp; Communication</th>
<th>Built-in Devices</th>
<th>Software</th>
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</thead>
<tbody>
<tr>
<td>Screen Size: 13.3&quot;</td>
<td>WiFi: Yes</td>
<td>Webcam: Yes</td>
<td>Operating System: Mac OS X Lion</td>
</tr>
<tr>
<td>Display Screen Type: Active Matrix TFT Color LCD</td>
<td>Wi-Fi Standard: IEEE 802.11a/b/g/n</td>
<td>Microphone: Yes</td>
<td>Software Included</td>
</tr>
<tr>
<td>Aspect Ratio: 16:10</td>
<td>Ethernet Technology: Gigabit Ethernet</td>
<td>Speakers: Yes</td>
<td>Mail</td>
</tr>
<tr>
<td>Screen Mode: WXGA</td>
<td>Bluetooth: Yes</td>
<td>Interfaces/Ports</td>
<td>Address Book</td>
</tr>
<tr>
<td>Screen Resolution: 1280 x 800</td>
<td>Ethernet</td>
<td>FireWire/i.LINK: Yes</td>
<td>iCal</td>
</tr>
<tr>
<td>Backlight Technology: LED</td>
<td>Number of USB Ports: 2</td>
<td>Total Number of USB Ports: 2</td>
<td>The Mac App Store</td>
</tr>
<tr>
<td>Graphics Controller Manufacturer: Intel</td>
<td>Number of USB 3.0 Ports: 2</td>
<td>Network (RJ-45): Yes</td>
<td>iTunes</td>
</tr>
<tr>
<td>Graphics Controller Model: HD 4000</td>
<td></td>
<td>Audio Line Out: Yes</td>
<td>Safari</td>
</tr>
<tr>
<td>Graphics Memory Technology: DDR3 SDRAM</td>
<td></td>
<td>Thunderbolt: Yes</td>
<td>Time Machine</td>
</tr>
<tr>
<td>Graphics Memory Accessibility: Shared</td>
<td></td>
<td>Input Devices</td>
<td>FaceTime</td>
</tr>
</tbody>
</table>

## Software Included
- Mail
- Address Book
- iCal
- The Mac App Store
- iTunes
- Safari
- Time Machine
- FaceTime
- Photo Booth
- Mission Control
- Launch
### Processor & Chipset
- **Processor Manufacturer:** Intel
- **Processor Type:** Core i7
- **Processor Speed:** 2.40 GHz
- **Processor Core:** Quad-core (4 Core)
- **64-bit Processing:** Yes

### Memory
- **Standard Memory:** 8 GB
- **Maximum Memory:** 16 GB
- **Memory Technology:** DDR3 SDRAM
- **Memory Standard:** DDR3-1600/PC3-12800
- **Memory Card Reader:** Yes
- **Memory Card Supported:** Secure Digital Extended Capacity (SDXC)

### Storage
- **Hard Drive Capacity:** 500 GB
- **Hard Drive Interface:** Serial ATA
- **Hard Drive RPM:** 5400

### Built-in Devices
- **Webcam:** Yes
- **Microphone:** Yes
- **Speakers:** Yes

### Display & Graphics
- **Screen Size:** 15.4"
- **Display Screen Type:** Active Matrix TFT Color LCD
- **Display Screen Technology:** Retina Display
- **Screen Resolution:** 2880 x 1800
- **Backlight Technology:** LED
- **Graphics Controller Manufacturer:** Intel
- **Graphics Controller Model:** HD 4000
- **Graphics Memory Technology:** DDR3 SDRAM
- **Graphics Memory Accessibility:** Shared

### Network & Communication
- **Wi-Fi:** Yes
- **Wi-Fi Standard:** IEEE 802.11a/b/g/n
- **Ethernet Technology:** Gigabit Ethernet
- **Bluetooth:** Yes
- **Bluetooth Standard:** Bluetooth 4.0

### Interfaces/Ports
- **HDMI:** Yes
- **Total Number of USB Ports:** 2
- **Number of USB 3.0 Ports:** 2
- **Audio Line Out:** Yes
- **Thunderbolt:** Yes
- **Keyboard:** Yes
- **Keyboard Backlight:** Yes
- **Pointing Device Type:** Track Pad
- **TouchPad Features:** Multi-touch Gesture

### Software
- **Operating System:** Mac OS X Lion
- **Mail**
- **Address Book**
- **iCal**
- **The Mac App Store**
- **iTunes**
- **Safari**
- **Time Machine**
- **FaceTime**
- **Photo Booth**
- **Mission Control**
- **Launch**