Raspberry Pi 3 Model B

**Raspberry Pi®** is an **ARM** based credit card sized **SBC** (Single Board Computer) created by **Raspberry Pi Foundation**. Raspberry Pi runs Debian based **GNU/Linux** operating system **Raspbian** and ports of many other OSes exist for this SBC.

**What is New in Raspberry Pi 3 Model B?**

- **1.2 GHz Quadcore ARM® Cortex®-A53**
- **Broadcom BCM2837 Processor**
- **LEDs**
- **Chip Antenna**
- **BCM2837**
- **RUN pin-header**

Raspberry Pi Foundation has announced a new version **Raspberry Pi 3**. Read announcement [here](#). With on-board **WiFi** / **Bluetooth** support and an 64bit improved Processor, **Raspberry Pi v3** will be an exciting board for Makers, Engineers and Students.
# What is new in Raspberry Pi 3

<table>
<thead>
<tr>
<th>Board</th>
<th>Raspberry Pi 2 Model B</th>
<th>Raspberry Pi 3 Model B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Broadcom BCM2836</td>
<td>Broadcom BCM2837</td>
</tr>
<tr>
<td>CPU Core</td>
<td>Quadcore ARM Cortex-A7, 32Bit</td>
<td>Quadcore ARM Cortex-A53, 64Bit</td>
</tr>
<tr>
<td>Clock Speed</td>
<td>900 MHz</td>
<td>1.2GHz (Roughly 50% faster than Pi2)</td>
</tr>
<tr>
<td>RAM</td>
<td>1 GB</td>
<td>1 GB</td>
</tr>
<tr>
<td>GPU</td>
<td>250 MHz VideoCore IV°</td>
<td>400 MHz VideoCore IV°</td>
</tr>
<tr>
<td>Network Connectivity</td>
<td>1 x 10 / 100 Ethernet (RJ45 Port)</td>
<td>1 x 10 / 100 Ethernet (RJ45 Port)</td>
</tr>
<tr>
<td>Wireless Connectivity</td>
<td>None</td>
<td>802.11n wireless LAN (WiFi) and Bluetooth 4.1</td>
</tr>
<tr>
<td>USB Ports</td>
<td>4 x USB 2.0</td>
<td>4 x USB 2.0</td>
</tr>
<tr>
<td>GPIOs</td>
<td>2 x 20 Pin Header</td>
<td>2 x 20 Pin Header</td>
</tr>
<tr>
<td>Camera Interface</td>
<td>15-pin MIPI</td>
<td>15-pin MIPI</td>
</tr>
<tr>
<td>Display Interface</td>
<td>DSI 15 Pin / HDMI Out / Composite RCA</td>
<td>DSI 15 Pin / HDMI Out / Composite RCA</td>
</tr>
<tr>
<td>Power Supply (Current Capacity)</td>
<td>1.8 A</td>
<td>2.5 A</td>
</tr>
</tbody>
</table>

**Board**

- The size of the Pi 2 and Pi 3 boards are the same.
- There is slight change in component placement to allow addition of WiFi / Bluetooth SoC & Chip antenna in Pi 3.
System on Chip (SoC)

Broadcom BCM2837 SoC

- Application Processor
  - 64 bit
  - Quad Core
  - 1.2 GHz
  - ARM Cortex-A53 Processor (ARM V8 ISA)
- GPU
  - 400 MHz
  - Videocore IV Multimedia Co-Processor

Chip Antenna
A ceramic chip antenna is used by WiFi and Bluetooth 4.1 SoC BCM43438. The chip antenna moves the indicator LEDs that were present in Pi 2 to the lower side of PCB.

Repositioned LEDs

The ACT and PWR LEDs are repositioned as shown below in Raspberry Pi 3 when compared to Pi 2.

Repositioned RUN pin-header
The RUN pin-header is also repositioned

**WiFi / Bluetooth SoC BCM43438**

WiFi and Bluetooth 4.1 (Classic and LE) are provided by Broadcom BCM43438 chip
Buy:

- Raspberry Pi 3 Preorder
- Raspberry Pi Main Boards
- Raspberry Pi Related Products

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