The Raspberry Pi 3 Model B is the third generation Raspberry Pi. This powerful credit-card sized single board computer can be used for many applications and supersedes the original Raspberry Pi Model B+ and Raspberry Pi 2 Model B. Whilst maintaining the popular board format the Raspberry Pi 3 Model B brings you a more powerful processor, 10x faster than the first generation Raspberry Pi. Additionally it adds wireless LAN & Bluetooth connectivity making it the ideal solution for powerful connected designs.
# Raspberry Pi 3 Model B

## Specifications

| **Processor** | Broadcom BCM2387 chipset.  
1.2GHz Quad-Core ARM Cortex-A53  
802.11 b/g/n Wireless LAN and Bluetooth 4.1 (Bluetooth Classic and LE) |
| **GPU** | Dual Core VideoCore IV® Multimedia Co-Processor. Provides Open GL ES 2.0, hardware-accelerated OpenVG, and 1080p30 H.264 high-profile decode.  
Capable of 1Gpixel/s, 1.5Gtexel/s or 24GFLOPs with texture filtering and DMA infrastructure |
| **Memory** | 1GB LPDDR2 |
| **Operating System** | Boots from Micro SD card, running a version of the Linux operating system or Windows 10 IoT |
| **Dimensions** | 85 x 56 x 17mm |
| **Power** | Micro USB socket 5V1, 2.5A |

## Connectors:

| **Ethernet** | 10/100 BaseT Ethernet socket |
| **Video Output** | HDMI (rev 1.3 & 1.4)  
Composite RCA (PAL and NTSC) |
| **Audio Output** | Audio Output 3.5mm jack, HDMI  
USB 4 x USB 2.0 Connector |
| **GPIO Connector** | 40-pin 2.54 mm (100 mil) expansion header: 2x20 strip  
Providing 27 GPIO pins as well as +3.3 V, +5 V and GND supply lines |
| **Camera Connector** | 15-pin MIPI Camera Serial Interface (CSI-2) |
| **Display Connector** | Display Serial Interface (DSI) 15 way flat flex cable connector with two data lanes and a clock lane |
| **Memory Card Slot** | Push/pull Micro SDIO |

## Key Benefits

- Low cost  
- 10x faster processing  
- Consistent board format  
- Added connectivity |

## Key Applications

- Low cost PC/tablet/laptop  
- Media centre  
- Industrial/Home automation  
- Print server  
- Web camera  
- Wireless access point  
- IoT applications  
- Robotics  
- Server/cloud server  
- Security monitoring  
- Gaming  
- Environmental sensing/monitoring (e.g. weather station)