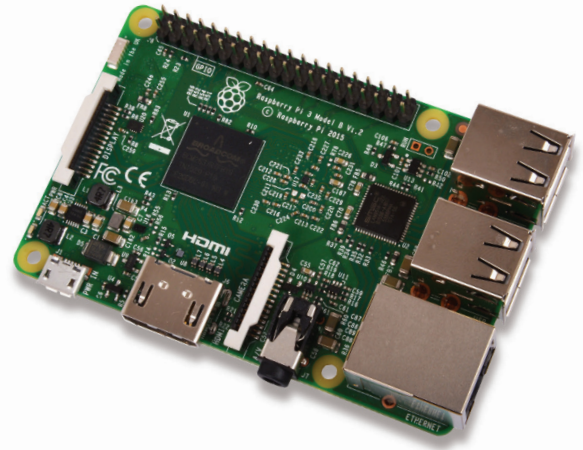


Raspberry Pi

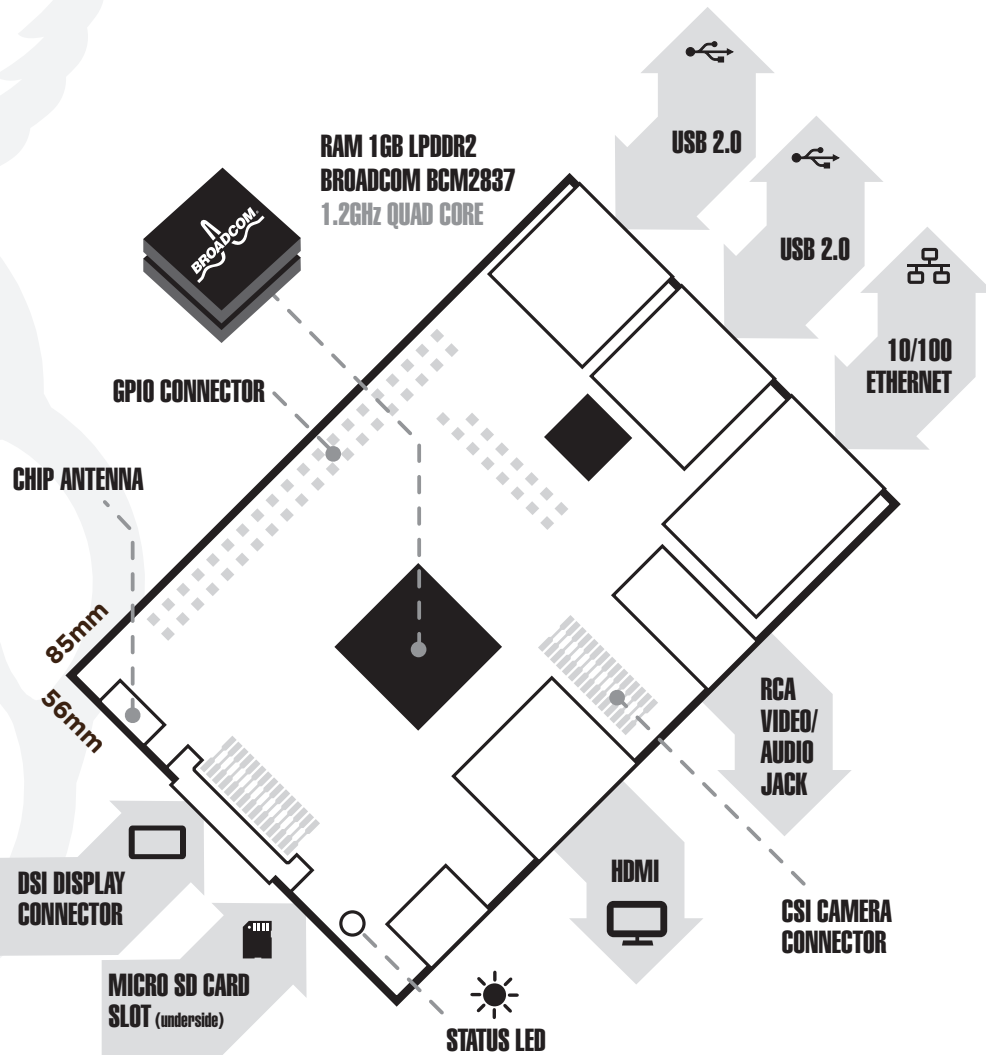


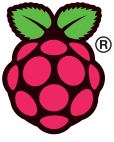
Raspberry Pi 3 Model B

Product Name Raspberry Pi 3

Product Description 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.

RS Part Number 122-5826





Raspberry Pi

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
- Environmental sensing/monitoring (e.g. weather station)
- IoT applications
- Robotics
- Server/cloud server
- Security monitoring
- Gaming

