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  896-8660
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
• Industrial/Home automation
• Print server
• Web camera
• Wireless access point
• Environment sensing/monitoring (e.g. weather station)
• IoT applications
• Robotics
• Server/cloud server
• Security monitoring
• Gaming