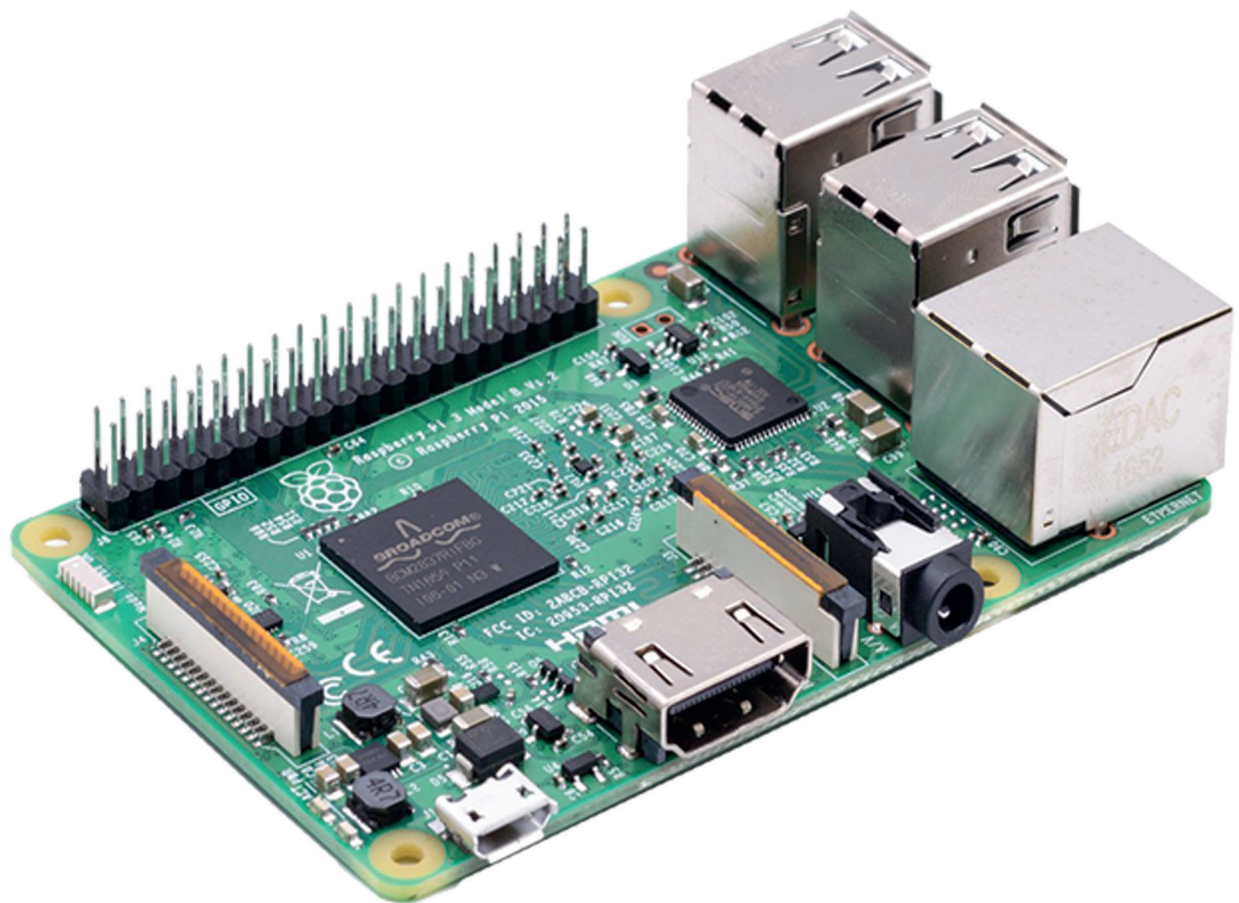


Raspberry Pi 3 Model B Datenblatt

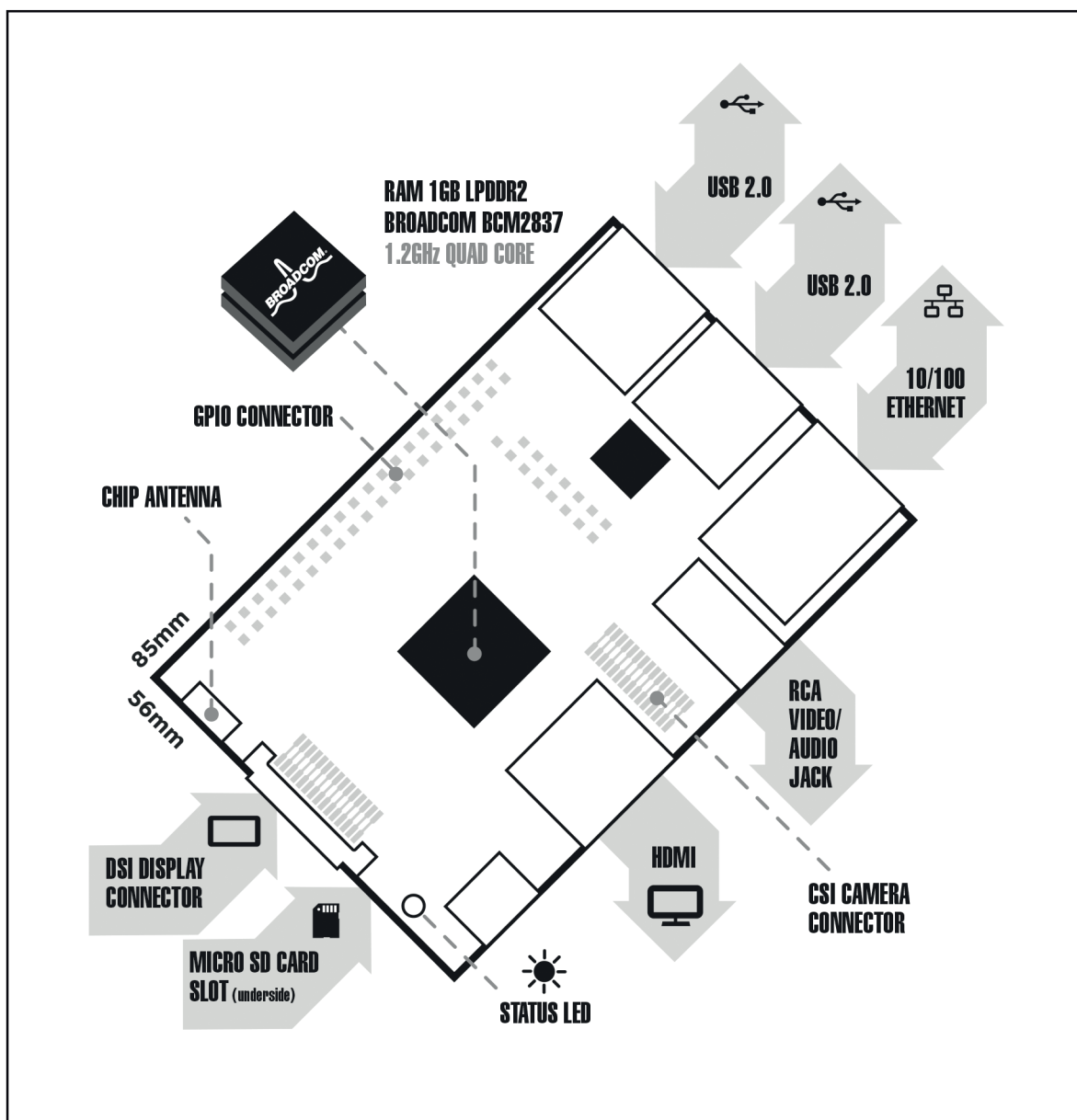


Contents:

- 1. Description**
- 2. Specifications**
- 3. Connectors**
- 4. Key Benefits**
- 5. Key Applications**

1. 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.



2. 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

3. 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

4. Key Benefits

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

5. Key Applications

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