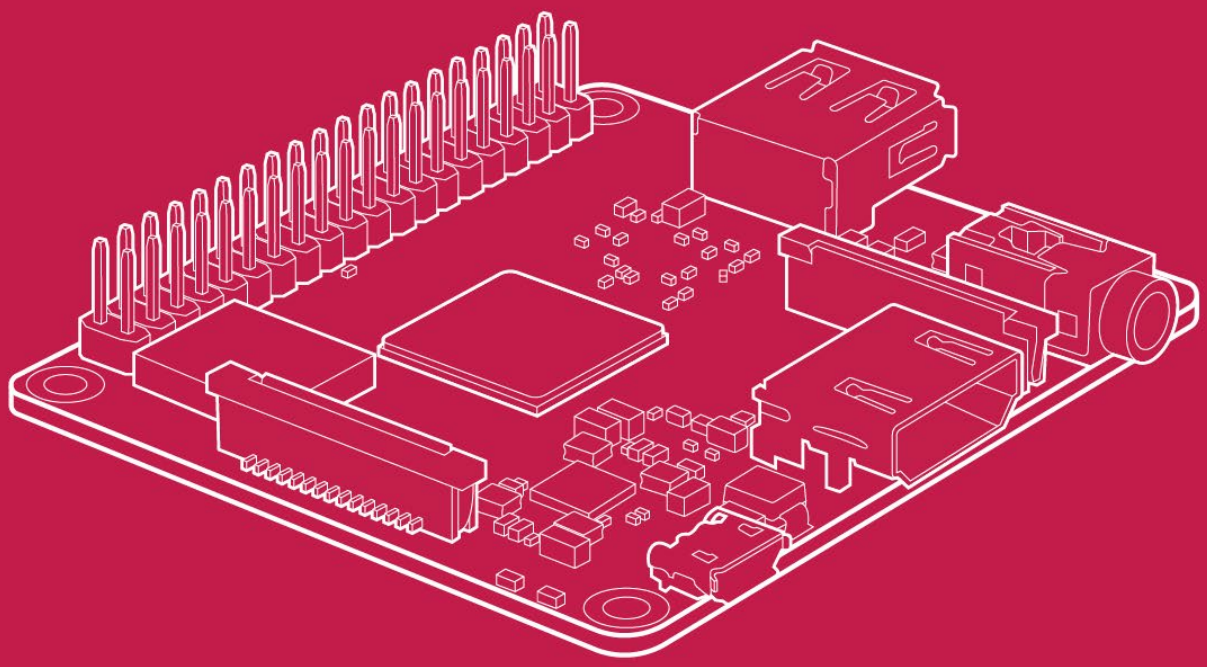
Raspberry Pi 3
Model A+



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by the Raspberry Pi Foundation

www.raspberrypi.org

Raspberry Pi

Overview

The Raspberry Pi 3 Model A+ is the latest product in the Raspberry Pi 3 range. Like the Raspberry Pi 3 Model B+, it boasts a 64-bit quad core processor running at 1.4 GHz, dual-band 2.4 GHz and 5 GHz wireless LAN, and Bluetooth 4.2/BLE.

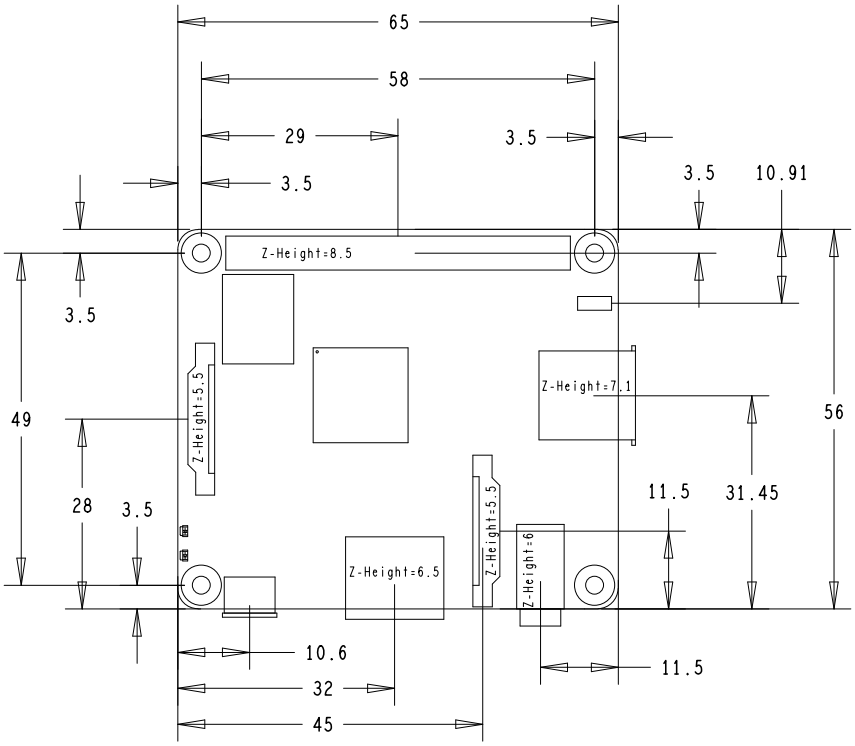
The dual-band wireless LAN comes with modular compliance certification, allowing the board to be designed into end products with significantly reduced wireless LAN compliance testing, improving both cost and time to market.

The Raspberry Pi 3 Model A+ has the same mechanical footprint as the Raspberry Pi 1 Model A+.

Specification

Processor:	Broadcom BCM2837B0, Cortex-A53 64-bit SoC @ 1.4 GHz
Memory:	512MB LPDDR2 SDRAM
Connectivity:	2.4 GHz and 5 GHz IEE 802.11.b/g/n/ac wireless LAN, Bluetooth 4.2/BLE
Access:	Extended 40-pin GPIO header
Video & sound:	1 × full size HDMI MIPI DSI display port MIPI CSI camera port 4 pole stereo output and composite video port
Multimedia:	H.264, MPEG-4 decode (1080p30); H.264 encode (1080p30); OpenGL ES 1.1, 2.0 graphics
SD card support:	Micro SD format for loading operating system and data storage
Input power:	5 V/2.5 A DC via micro USB connector 5 V DC via GPIO header
Environment:	Operating temperature, 0–50°C
Compliance:	For a full list of local and regional product approvals, please visit: www.raspberrypi.org/products/raspberry-pi-3-model-a-plus
Production lifetime:	The Raspberry Pi 3 Model A+ will remain in production until at least January 2023

Physical specifications



all dimensions in mm

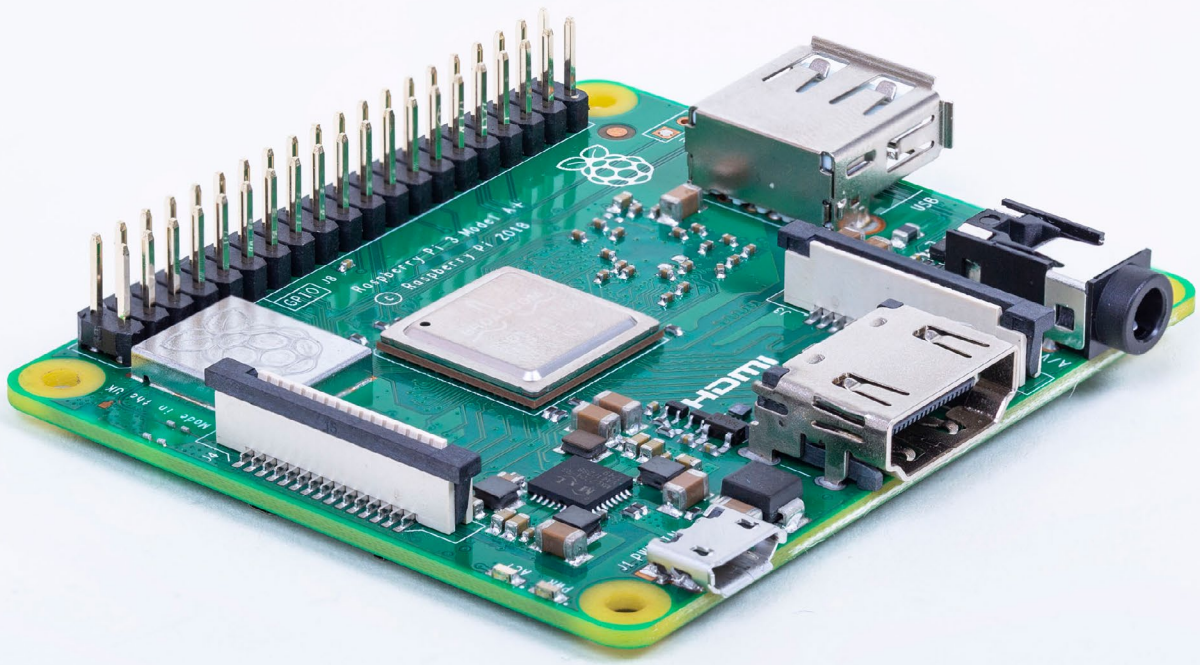
WARNINGS

- This product should only be connected to an external power supply rated at 5 V/2.5 A DC. Any external power supply used with the Raspberry Pi 3 Model A+ shall comply with relevant regulations and standards applicable in the country of intended use.
- This product should be operated in a well-ventilated environment and, if used inside a case, the case should not be covered.
- While in use, this product should be placed on a stable, flat, non-conductive surface and should not be contacted by conductive items.
- The connection of incompatible devices to the GPIO connection may affect compliance, result in damage to the unit, and invalidate the warranty.
- All peripherals used with this product should comply with relevant standards for the country of use and be marked accordingly to ensure that safety and performance requirements are met. These articles include but are not limited to keyboards, monitors, and mice when used in conjunction with the Raspberry Pi.
- The cables and connectors of all peripherals used with this product must have adequate insulation so that relevant safety requirements are met.

SAFETY INSTRUCTIONS

To avoid malfunction or damage to this product, please observe the following:

- Do not expose to water or moisture, or place on a conductive surface while in operation.
- Do not expose to heat from any source; the Raspberry Pi 3 Model A+ is designed for reliable operation at normal ambient temperatures.
- Take care while handling to avoid mechanical or electrical damage to the printed circuit board and connectors.
- While it is powered, avoid handling the printed circuit board, or only handle it by the edges to minimise the risk of electrostatic discharge damage.


GPIO
Raspberry Pi 3 Model A+
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USB
HDMI

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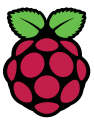

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