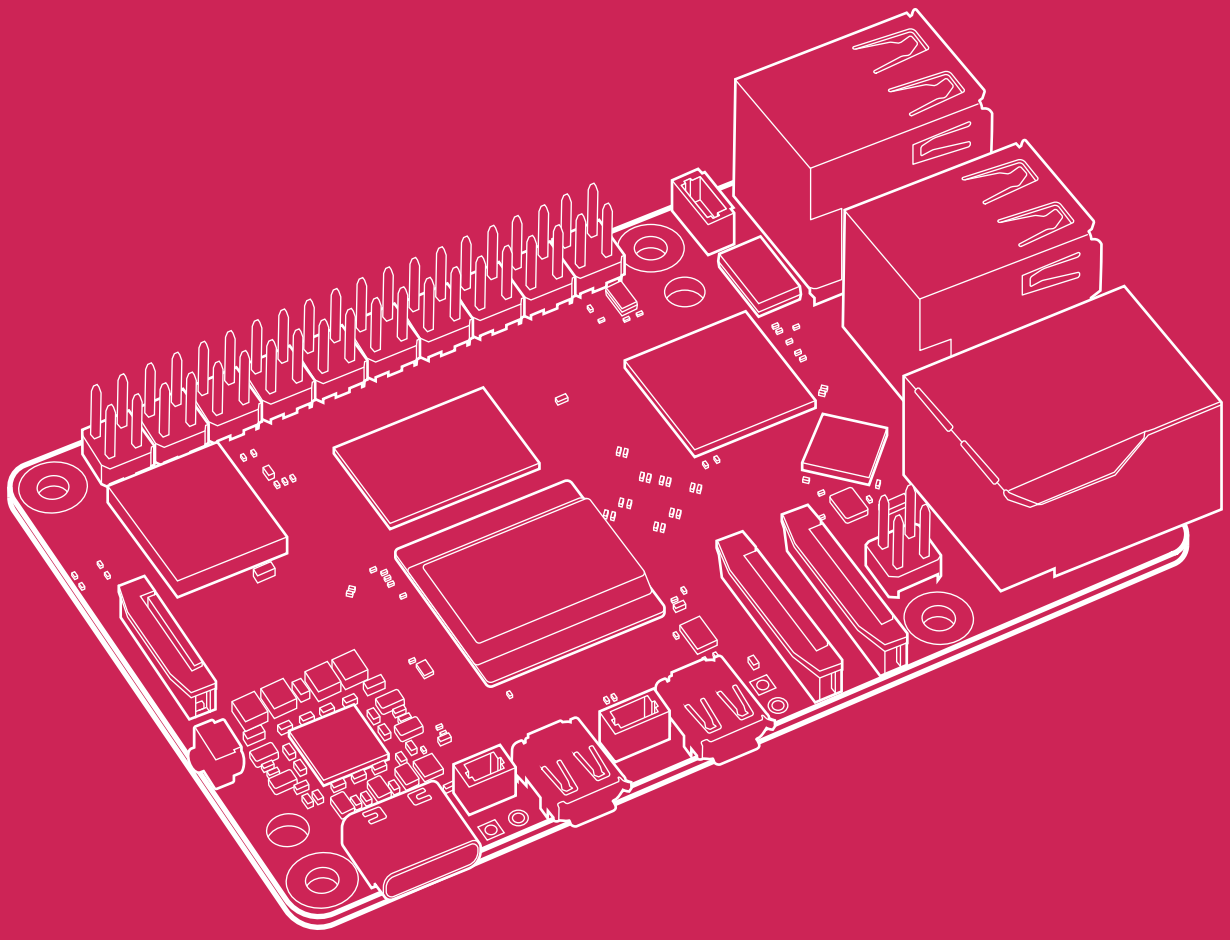
Raspberry Pi 5

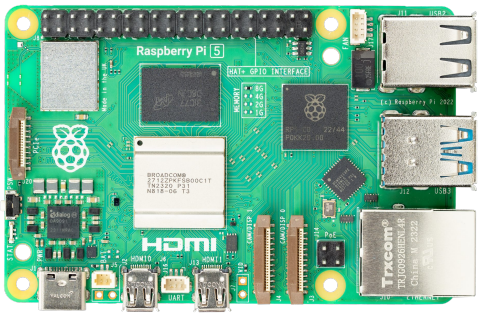
Published October 2026



HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

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Overview



Welcome to the latest generation of Raspberry Pi: the everything computer.

Featuring a 64-bit quad-core Arm Cortex-A76 processor running at 2.4GHz, Raspberry Pi 5 delivers a 2 to 3× increase in CPU performance relative to Raspberry Pi 4. Alongside a substantial uplift in graphics performance from an 800MHz VideoCore VII GPU; dual 4Kp60 display output over HDMI®; and state-of-the-art camera support from a rearchitected Raspberry Pi Image Signal Processor, it provides a smooth desktop experience for consumers, and opens the door to new applications for industrial customers.

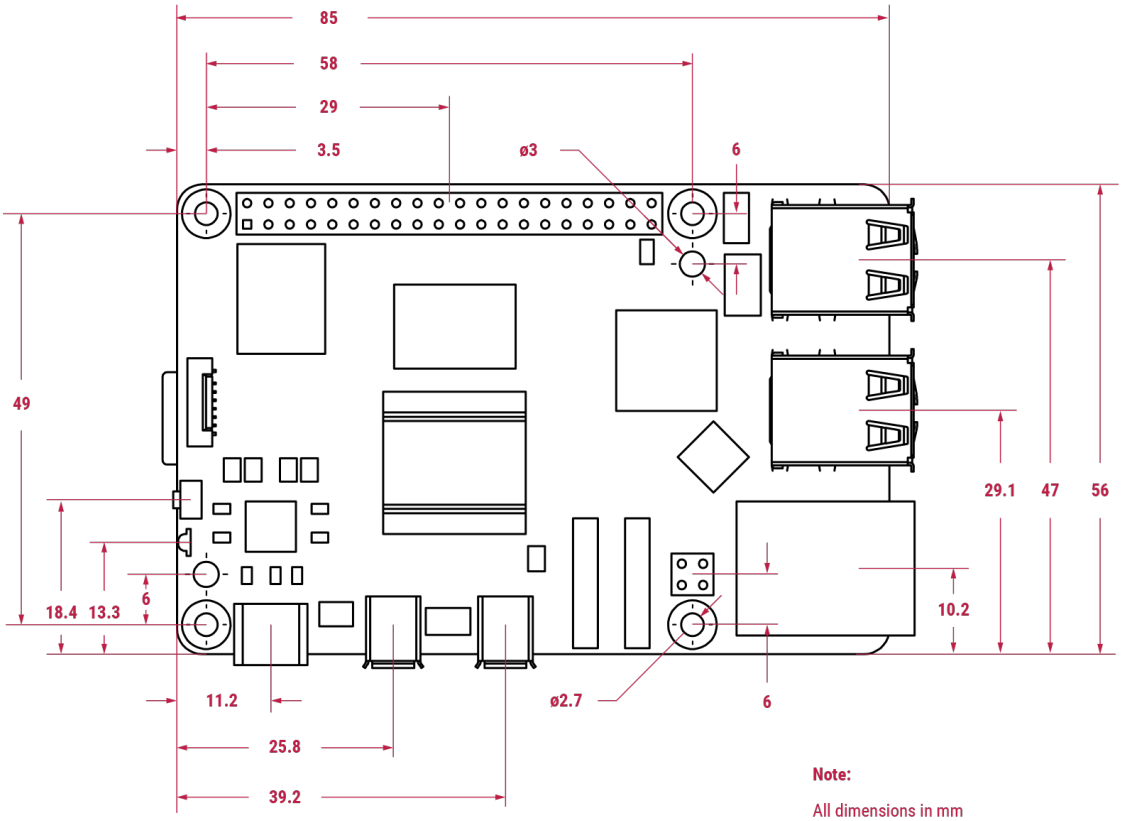
For the first time, this is a full-size Raspberry Pi computer using silicon built in-house at Raspberry Pi. The RP1 “southbridge” provides the bulk of the I/O capabilities for Raspberry Pi 5, and delivers a step change in peripheral performance and functionality. Aggregate USB bandwidth is more than doubled, yielding faster transfer speeds to external UAS drives and other high-speed peripherals; the dedicated two-lane 1Gbps MIPI camera and display interfaces present on earlier models have been replaced by a pair of four-lane 1.5Gbps MIPI transceivers, tripling total bandwidth and supporting any combination of up to two cameras or displays; peak SD card performance is doubled through support for the SDR104 high-speed mode; and for the first time, the platform exposes a single-lane PCI Express 2.0 interface, providing support for high-bandwidth peripherals.

Specification

Processor	Broadcom BCM2712 2.4GHz quad-core 64-bit Arm Cortex-A76 CPU, with Cryptographic Extension, 512KB per-core L2 caches, and a 2MB shared L3 cache
Features	VideoCore VII GPU, supporting OpenGL ES 3.1, Vulkan 1.2 Dual 4Kp60 HDMI® display output with HDR support 4Kp60 HEVC decoder LPDDR4X-4267 SDRAM (options for 1GB, 2GB, 4GB, 8GB and 16GB) Dual-band 802.11ac Wi-Fi® Bluetooth 5.0 / Bluetooth Low Energy (BLE) microSD card slot, with support for high-speed SDR104 mode 2 × USB 3.0 ports, supporting simultaneous 5Gbps operation 2 × USB 2.0 ports Gigabit Ethernet, with PoE+ support (requires separate PoE+ HAT) 2 × 4-lane MIPI camera / display transceivers PCIe 2.0 x1 interface for fast peripherals (requires separate M.2 HAT or other adapter) 5V/5A DC power via USB-C, with Power Delivery support Raspberry Pi standard 40-pin GPIO header Real-time clock (RTC), powered from external battery Power button
MTBF[1] Ground Benign	93 800 hours
Operating temperature	0°C to 70°C
Production lifetime	Raspberry Pi 5 will remain in production until at least January 2036
Compliance	For a full list of local and regional product approvals, please visit pip.raspberrypi.com
List price	1GB **$45** 2GB **$77.50** 4GB **$110** 8GB **$175** 16GB **$305**

[1] Mean Time Between Failure

Physical specification



Note:

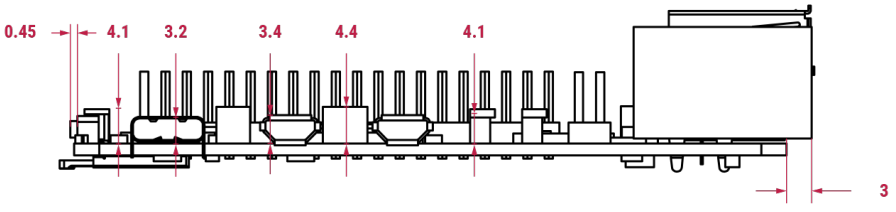
All dimensions in mm

All dimensions are approximate and for reference purposes only. The dimensions shown should not be used for producing production data

The dimensions are subject to part and manufacturing tolerances

Not all of the board components are shown. Please reference a physical board for representation of componentry

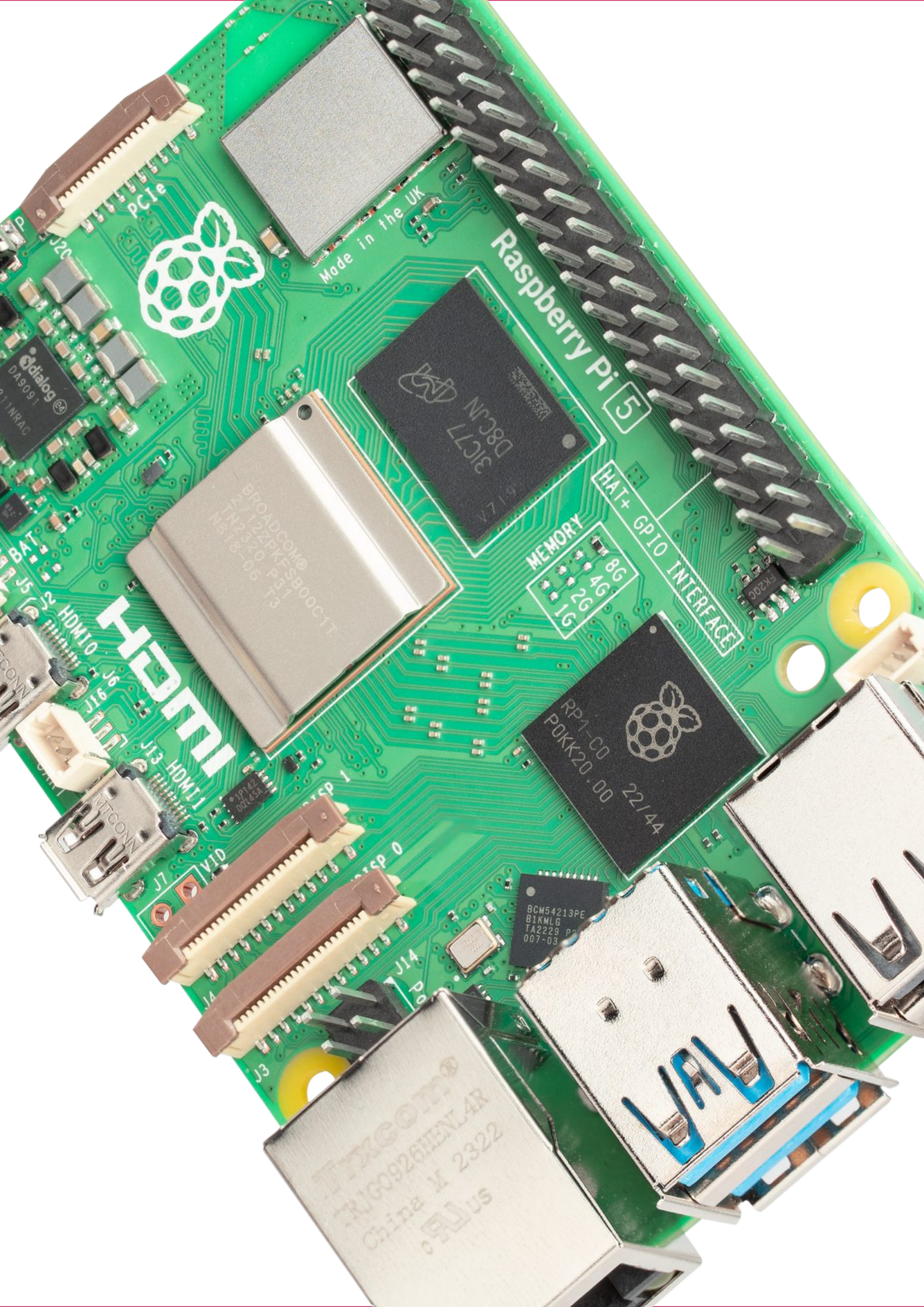
Dimensions may be subject to change



Safety warnings

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

- 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 firmly secured or should be placed on a stable, flat, non-conductive surface, and should not be contacted by conductive items.
- The connection of incompatible devices to Raspberry Pi 5 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.
- Do not expose to water or moisture, or place on a conductive surface while in operation.
- Do not expose to heat from any source; Raspberry Pi 5 is designed for reliable operation at normal ambient temperatures.
- Store in a cool, dry location.
- 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 handle it only by the edges, to minimise the risk of electrostatic discharge damage.


Raspberry Pi 5
Made in the UK
PCIe
HAT+ GPIO INTERFACE
MEMORY
8G
4G
2G
1G
BROADCOM
RP1-C0
POKK20.00
22/44
BCM54213PE
B1KMLG
TA2229
007-03
dialog
DA9091
HDMI0
HDMI1
BAT
VID



Raspberry Pi

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