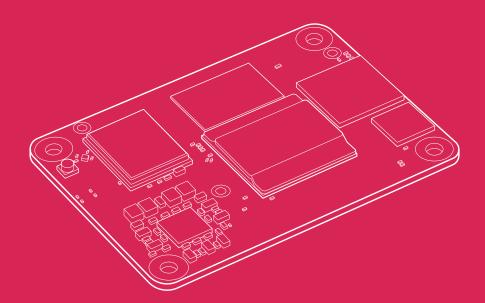


Raspberry Pi Compute Module 5

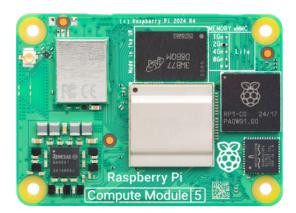
Published December 2025





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Overview



Raspberry Pi Compute Module 5 is a system on module that delivers the power of Raspberry Pi 5 in a form factor ideal for embedded applications. Priced from \$45 and featuring a quad-core Arm Cortex-A76 processor, dual 4Kp60 HDMI output, Gigabit Ethernet, optional fully-certified wireless module providing Wi-Fi® and Bluetooth connectivity, and a variety of RAM and eMMC flash options, Compute Module 5 enables you to leverage Raspberry Pi 5's powerful hardware and optimised software stack in your own custom systems and form factors.

In comparison with its predecessor, Compute Module 5 features additional I/O interfaces, allowing even more flexibility and providing a greater breadth of options for product and application design. For cost-sensitive applications, Compute Module 5 is also available without eMMC flash.

Also available to assist product designers is the Raspberry Pi Development Kit for Compute Module 5, offering an ideal environment for prototyping embedded solutions. This comprehensive kit includes a Compute Module 5 and Compute Module 5 IO Board, together with all the essential accessories to kick-start your product design.

Specification

Form factor: 55 mm × 40 mm × 4.7 mm module

4 × M2.5 mounting holes

Processor: Broadcom BCM2712 quad-core 64-bit Arm Cortex-A76

(Armv8) SoC @ 2.4GHz

Memory: Options for 2GB, 4GB 8GB, or 16GB LPDDR4-4267 SDRAM

with ECC

Options for OGB (Lite), 16GB, 32GB or 64GB eMMC

flash memory

See table below for full list of variant options

Connectivity: Options for certified radio module containing:

• 2.4 GHz / 5.0 GHz IEEE 802.11 b/g/n/ac wireless

· Bluetooth 5.0, BLE

On-board electronic switch to select between PCB trace or

external antenna

Gigabit Ethernet PHY supporting IEEE 1588

1 × PCle x1 root complex, Gen 2 (5Gbps)

1 × USB 2.0 port (high speed)

2 × USB 3.0 ports, supporting simultaneous 5Gbps operation

Up to 30 × GPIO supporting either 1.8V or 3.3V signalling

and peripheral options:

• Up to 5 × UART

• Up to 5 × I2C

• Up to 5 × SPI

• 1 × SDIO interface

• 1 × DPI (parallel RGB display)

• 1 × I2S

• Up to 4 × PWM channels

• Up to 3 × GPCLK outputs

Video: 2 × HDMI 2.0 ports

(supports up to 4Kp60 on both ports simultaneously)

2 × 4-lane MIPI ports

supporting both DSI (display port) and CSI-2 (camera port)

Multimedia: 4Kp60 HEVC decoder

OpenGL ES 3.1 graphics, Vulkan 1.3

1 × SDIO 2.0 (CM5 Lite)

Input power: Single +5V PSU input supports USB PD for up to 5A @ 5V

Operating temperature: -20°C to +85°C

MTBF¹ Ground Benign: 143 000 hours (168 000 hours CM5 Lite)

Production lifetime: Raspberry Pi Compute Module 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: See table below

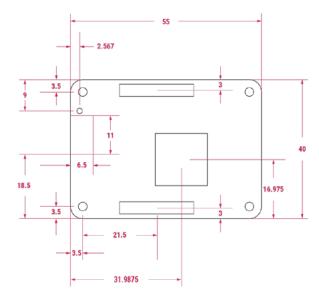
¹ Mean Time Between Failure

Pricing

Part Number	Wireless	RAM	еММС	Price*
CM5 002000	No	2GB	0GB (Lite)	\$45
CM5 002016			16GB	\$50
CM5 002032			32GB	\$55
CM5002064			64GB	\$60
CM5 004000		4GB	0GB (Lite)	\$60
CM5 004016			16GB	\$65
CM5 004032			32GB	\$70
CM5004064			64GB	\$75
CM5008000		8GB	0GB (Lite)	\$85
CM5 008016			16GB	\$90
CM5 008032			32GB	\$95
CM5 008064			64GB	\$100
CM5 016000		16GB	0GB (Lite)	\$135
CM5 016016			16GB	\$140
CM5 016032			32GB	\$145
CM5 016064			64GB	\$150
CM5 102000	Yes	2GB	0GB (Lite)	\$50
CM5 102016			16GB	\$55
CM5 102032			32GB	\$60
CM5 102064			64GB	\$65
CM5 104000		4GB	0GB (Lite)	\$65
CM5 104016			16GB	\$70
CM5 104032			32GB	\$75
CM5 104064			64GB	\$80
CM5 108000		8GB	0GB (Lite)	\$90
CM5 108016			16GB	\$95
CM5 108032			32GB	\$100
CM5 108064			64GB	\$105
CM5 116000		16GB	0GB (Lite)	\$140
CM5 116016			16GB	\$145
CM5 116032			32GB	\$150
CM5 116064			64GB	\$155

^{*} pricing excludes sales tax and any applicable import duties

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

Dimensions may be subject to change

WARNINGS

- Any external power supply used with Raspberry Pi Compute Module 5 shall comply with relevant regulations and standards applicable in the country of intended use and be a limited power source or PS2 power source per IEC 62368-1.
- This product should be operated in a well-ventilated environment, and if used inside a case, the case should not be covered.
- Whilst in use, this product should not be contacted by conductive items.
- The connection of incompatible devices to Compute Module 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. These articles include but are not limited to
 keyboards, monitors, and mice when used in conjunction with the Compute Module.
- 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 whilst in operation.
- Do not expose to heat from any source; Raspberry Pi Compute Module 5 is designed for reliable operation at normal ambient temperatures.
- · Take care whilst handling to avoid mechanical or electrical damage to the printed circuit board and connectors.
- Whilst it is powered, avoid handling the printed circuit board, or only handle it by the edges to minimise the risk of electrostatic discharge damage.



