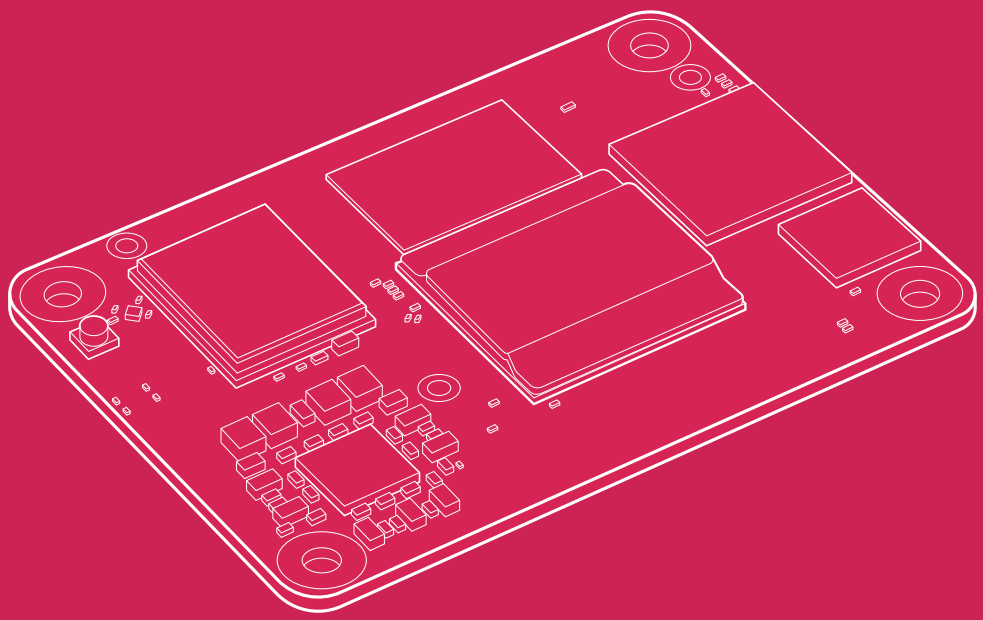
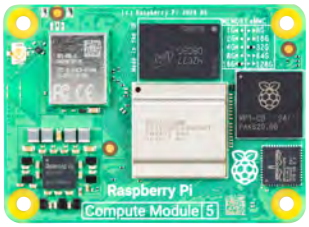
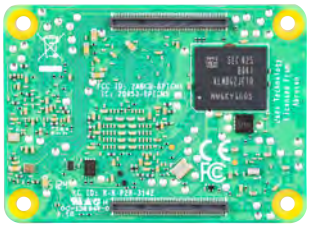
Raspberry Pi Compute Module 5

Published July 2026



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. 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 0GB (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 × PCIe 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)

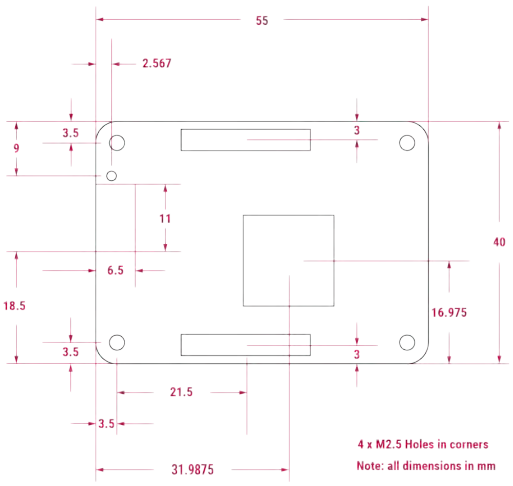
Input power	Single +5V PSU input supports USB PD for up to 5A @ 5V
Operating temperature	−20°C to +85°C
MTBF[1] Ground Benign	143 000 hours (168 000 hours CM5 Lite)
Production lifetime	Raspberry Pi Compute Module 5 will remain in production until at least January 2036
Compliance	For a full list of local and regional product approvals, please visit pip.raspberrypi.com
List price	See table below

[1] Mean Time Between Failure

Pricing

Part Number	Wireless	RAM	eMMC	Price*
CM5002000	No	2GB	0GB (Lite)	$67.50
CM5002016			16GB	$92.50
CM5002032			32GB	$102.50
CM5002064			64GB	$102.50
CM5004000		4GB	0GB (Lite)	$100
CM5004016			16GB	$125
CM5004032			32GB	$135
CM5004064			64GB	$135
CM5008000		8GB	0GB (Lite)	$165
CM5008016			16GB	$190
CM5008032			32GB	$200
CM5008064			64GB	$200
CM5016000		16GB	0GB (Lite)	$295
CM5016016			16GB	$320
CM5016032			32GB	$330
CM5016064			64GB	$330
CM5102000	Yes	2GB	0GB (Lite)	$72.50
CM5102016			16GB	$97.50
CM5102032			32GB	$107.50
CM5102064			64GB	$107.50
CM5104000		4GB	0GB (Lite)	$105
CM5104016			16GB	$130
CM5104032			32GB	$140
CM5104064			64GB	$140
CM5108000		8GB	0GB (Lite)	$170
CM5108016			16GB	$195
CM5108032			32GB	$205
CM5108064			64GB	$205
CM5116000		16GB	0GB (Lite)	$300
CM5116016			16GB	$325
CM5116032			32GB	$330
CM5116064			64GB	$335

Mechanical specification



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

- 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.
- 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.


Raspberry Pi
Compute Module 5
CAM/DISP 0
CAM/DISP 1
Power Button
Battery
CR2032

Raspberry Pi

Raspberry Pi Ltd