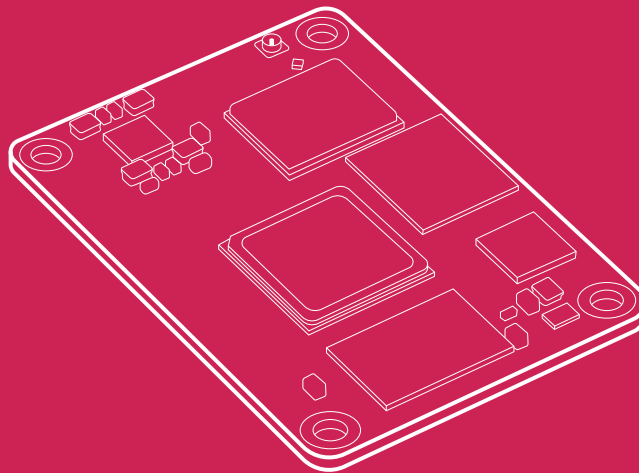




Raspberry Pi Compute Module 4

Published July 2026



The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.

Overview



Raspberry Pi Compute Module 4 harnesses the compute power of Raspberry Pi 4 Model B, bringing it to a smaller form factor suitable for integration into products.

Key features include a high-performance 64-bit quad-core processor, dual-display support at resolutions up to 4K, hardware video decode at up to 4Kp60, up to 8GB of RAM, Gigabit Ethernet, USB 2.0, dual camera interfaces, and PCIe Gen 2 x1 interface.

The optional dual-band 2.4/5.0GHz wireless LAN and Bluetooth 5.0 have modular compliance certification. This allows the board to be designed into end products with significantly reduced compliance testing, improving both cost and time to market. Either the onboard antenna or an external antenna kit can be used.

Compute Module 4 has optional onboard eMMC of 8GB, 16GB, 32GB or 64GB.

A number of Compute Module 4 variants now come with an extended temperature range of -40°C to $+85^{\circ}\text{C}$, ideal for handling applications in more extreme indoor and outdoor environments.

Specification

| | |
|---------------------------------------|---|
| Form factor | 55 mm × 40 mm |
| Processor | Broadcom BCM2711 quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz |
| Memory | Options for 1GB, 2GB, 4GB or 8GB LPDDR4 Options for 0GB (Lite), 16GB, 32GB or 64GB eMMC flash memory |
| Connectivity | Optional wireless LAN, 2.4GHz and 5.0GHz IEEE 802.11b/g/n/ac wireless, Bluetooth 5.0, BLE with onboard and external antenna options Onboard Gigabit Ethernet PHY supporting IEEE1588 1 × USB 2.0 interface PCIe Gen 2 x1 interface 28 GPIO signals SD card interface for SD card or external eMMC (for use only with Compute Module 4 variants without eMMC) |
| Video | Dual HDMI® interface (up to 4Kp60 supported) 2-lane MIPI DSI display interface 2-lane MIPI CSI camera interface 4-lane MIPI DSI display interface 4-lane MIPI CSI camera interface |
| Multimedia | H.265 (4Kp60 decode); H.264 (1080p60 decode, 1080p30 encode); OpenGL ES 3.0 graphics |
| Input power | 5V DC |
| Operating temperature | -20°C to +85°C -40°C to +85°C (extended temperature range variants only) |
| MTBF¹ Ground Benign | 377 000 hours (382 000 hours CM4 Lite) |
| Production lifetime | Raspberry Pi Compute Module 4 will remain in production until at least January 2034 |
| 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* |
|-------------|----------|-----|------------|---------|
| CM4001000 | No | 1GB | 0GB (Lite) | \$41.25 |
| CM4001008 | | | 8GB | \$66.25 |
| CM4001016 | | | 16GB | \$66.25 |
| CM4001032 | | | 32GB | \$76.25 |
| CM4001064 | | | 64GB | \$76.25 |
| CM4002000 | | 2GB | 0GB (Lite) | \$57.50 |
| CM4002008 | | | 8GB | \$82.50 |
| CM4002016 | | | 16GB | \$82.50 |
| CM4002032 | | | 32GB | \$92.50 |
| CM4002064 | | | 64GB | \$92.50 |
| CM4004000 | | 4GB | 0GB (Lite) | \$90 |
| CM4004008 | | | 8GB | \$115 |
| CM4004016 | | | 16GB | \$115 |
| CM4004032 | | | 32GB | \$125 |
| CM4004064 | | | 64GB | \$125 |
| CM4008000 | | 8GB | 0GB (Lite) | \$155 |
| CM4008008 | | | 8GB | \$180 |
| CM4008016 | | | 16GB | \$180 |
| CM4008032 | | | 32GB | \$190 |
| CM4008064 | | | 64GB | \$190 |
| CM4101000 | Yes | 1GB | 0GB (Lite) | \$46.25 |
| CM4101008 | | | 8GB | \$71.25 |
| CM4101016 | | | 16GB | \$71.25 |
| CM4101032 | | | 32GB | \$81.25 |
| CM4101064 | | | 64GB | \$81.25 |
| CM4102000 | | 2GB | 0GB (Lite) | \$62.50 |
| CM4102008 | | | 8GB | \$87.50 |
| CM4102016 | | | 16GB | \$87.50 |
| CM4102032 | | | 32GB | \$97.50 |
| CM4102064 | | | 64GB | \$97.50 |
| CM4104000 | | 4GB | 0GB (Lite) | \$95 |
| CM4104008 | | | 8GB | \$120 |
| CM4104016 | | | 16GB | \$120 |
| CM4104032 | | | 32GB | \$130 |
| CM4104064 | | | 64GB | \$130 |
| CM4108000 | | 8GB | 0GB (Lite) | \$160 |
| CM4108008 | | | 8GB | \$185 |
| CM4108016 | | | 16GB | \$185 |

| | | | | |
|------------------|--|--|------|--------------|
| CM4108032 | | | 32GB | \$195 |
| CM4108064 | | | 64GB | \$195 |

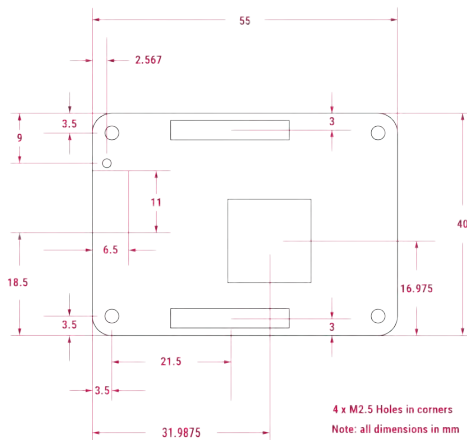
* pricing excludes sales tax and any applicable import duties

Extended temperature range variants

| Part Number | Wireless | RAM | eMMC | Availability | Price |
|--------------------|----------|-----|------------|--------------|----------------------|
| CM4001000ET | No | 1GB | 0GB (Lite) | | Price on application |
| CM4001016ET | | | 16GB | | |
| CM4002000ET | | 2GB | 0GB (Lite) | | |
| CM4002016ET | | | 16GB | | |
| CM4004000ET | | 4GB | 0GB (Lite) | | |
| CM4004016ET | | | 16GB | | |
| CM4101000ET | Yes | 1GB | 0GB (Lite) | | |
| CM4101016ET | | | 16GB | | |
| CM4102000ET | | 2GB | 0GB (Lite) | | |
| CM4102016ET | | | 16GB | | |
| CM4104000ET | | 4GB | 0GB (Lite) | | |
| CM4104016ET | | | 16GB | | |

¹ available to order 1Ku MOQ with typical lead time of 10-12 weeks

Mechanical specification

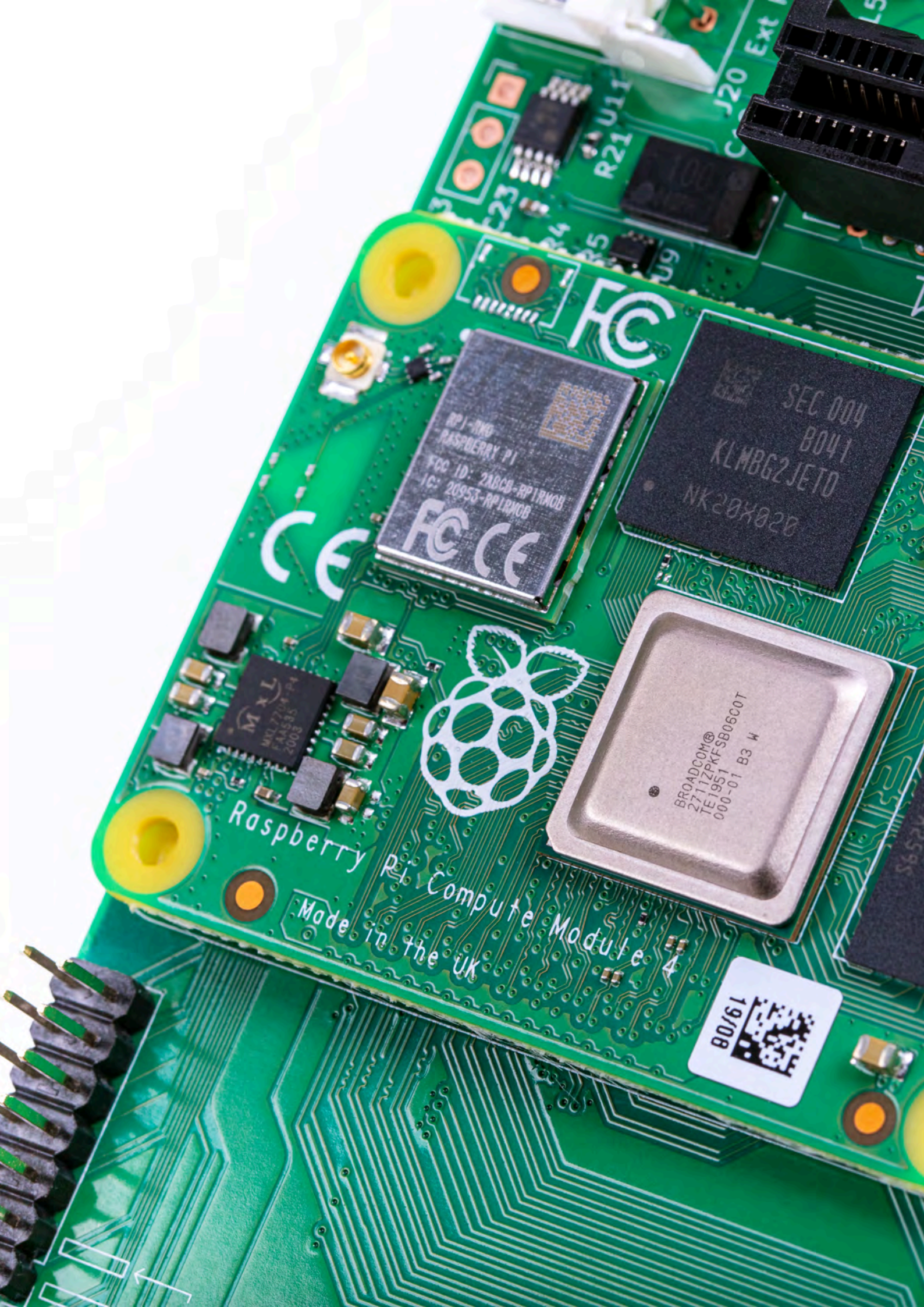


WARNINGS

- Any external power supply used with Raspberry Pi Compute Module 4 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.
- Whilst 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 Compute Module 4 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.

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 4 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.



RPI-RNG
RASPBERRY PI
FCC ID: 2ABCD-RP1RNCB
IC: 20953-RP1RNCB
FC CE

SEC 004
B041
KLMBG2JE10
NK20X020

BROADCOM®
2711ZP-KFSB06C0T
TE1951
000-01 B3 W

Raspberry Pi Compute Module 4
Made in the UK

8/19/08



Raspberry Pi

Raspberry Pi is a trademark of Raspberry Pi Ltd