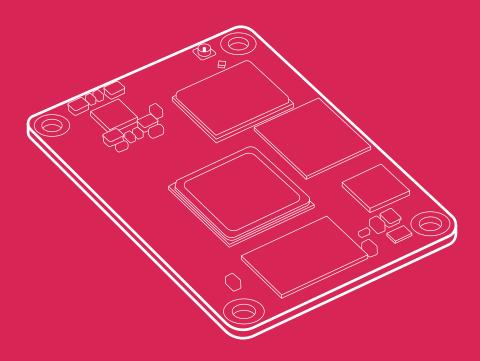


Raspberry Pi Compute Module 4

Published April 2022





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

Raspberry Pi Ltd

Overview



Raspberry Pi Compute Module 4 harnesses the compute power of the popular 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.

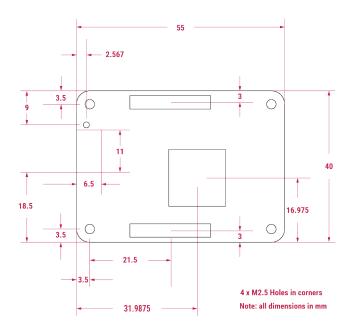
The optional dual-band 2.4/5.0GHz wireless LAN and Bluetooth 5.0 have modular compliance certification. This allows the board to be designed into end products with significantly reduced compliance testing, improving both cost and time to market. Either the onboard antenna or an external antenna kit can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

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

Specification

Form factor:	55 mm × 40 mm		
Processor:	Broadcom BCM2711 quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5GHz		
Memory:	1GB, 2GB, 4GB or 8GB LPDDR4 (depending on variant)		
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		
Production lifetime:	Raspberry Pi Compute Module 4 will remain in production until at least January 2028		
Compliance:	For a full list of local and regional product approvals, please visit pip.raspberrypi.com		

Physical 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.

SAFETY INSTRUCTIONS

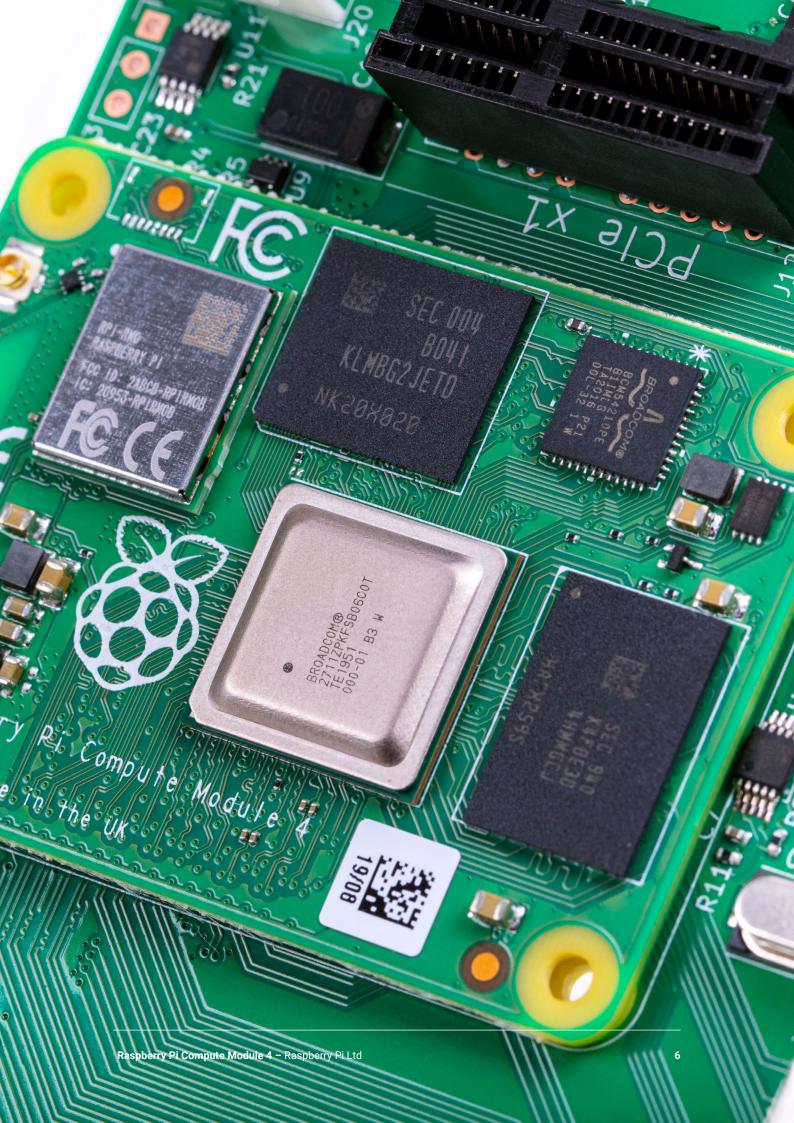
To avoid malfunction or damage to this product, please observe the following:

- · 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 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.

Pricing

Part Number	Wireless	RAM	eMMC	Price*
CM4001000	No	1GB	0GB (Lite)	\$30
CM4001008			8GB	\$35
CM4001016			16GB	\$40
CM4001032			32GB	\$45
CM4002000		2GB	0GB (Lite)	\$35
CM4002008			8GB	\$40
CM4002016			16GB	\$45
CM4002032			32GB	\$50
CM4004000		4GB	0GB (Lite)	\$50
CM4004008			8GB	\$55
CM4 004016			16GB	\$60
CM4004032			32GB	\$65
CM4008000		8GB	0GB (Lite)	\$75
CM4008008			8GB	\$80
CM4 008016			16GB	\$85
CM4008032			32GB	\$90
CM4101000		1GB	0GB (Lite)	\$35
CM4101008	Yes		8GB	\$40
CM4101016			16GB	\$45
CM4101032			32GB	\$50
CM4102000		2GB	0GB (Lite)	\$40
CM4102008			8GB	\$45
CM4102016			16GB	\$50
CM4102032			32GB	\$55
CM4 104000		4GB	0GB (Lite)	\$55
CM4 104008			8GB	\$60
CM4 104016			16GB	\$65
CM4 104032			32GB	\$70
CM4 108000		8GB	0GB (Lite)	\$80
CM4108008			8GB	\$85
CM4 108016			16GB	\$90
CM4108032			32GB	\$95

* pricing excludes sales tax and any applicable import duties





Raspberry Pi is a trademark of Raspberry Pi Ltd

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Single Board Computers category:

Click to view products by Raspberry Pi manufacturer:

Other Similar products are found below :

EMB-IB897-I45P MVME61006E-2173R 5962-8872609LA BLKNUC7I3DNHNC1978015 IOT-LS1012A-OXALIS NITX-300-ET-DVI UPN-EHLX4E-A10-0432 USB HUB HAT BANANA PI BPI-P2 PRO ROCK 4C+ ROCK 5B - 8GB PCE-5129G2-00A3 PCA-6029G2-00A3 PCE-5129G2-00A3U AIMB-706G2-00A3 CM4004016 PICO W CM4101008 PICO CM4004000 CM4008008 CM4008032 CM4108000 Debug Probe CM4108008 CM4004008 CM4004032 CM4008000 CM4101016 CM4101032 CM4101000 CM4108032 CM4108016 UP-APL03C2FLH-A10-0232 EMB-IMX8MP-02 HUMMINGBOARD-I2EX BASE + WIFI/BT HUMMINGBOARD-I4 PRO + WIFI/BT VAB-600-B RT5350F-OLINUXINO-EVB MITX-440-DVI-2E NITX-315-DEVKIT A13-SOM-512 AM3359-SOM-EVB-IND 1996 AIMB-223G2-S0A1E AIMB-562VG-GRA1E MIO-5270DZ-2GS0A1E PCE-5126QVG-00A1E PCE-5125QG2-00A1E MIO-5251E-S3A1E