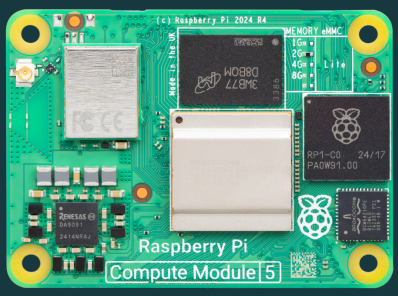
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INDUSTRIAL PRODUCT DATASHEET

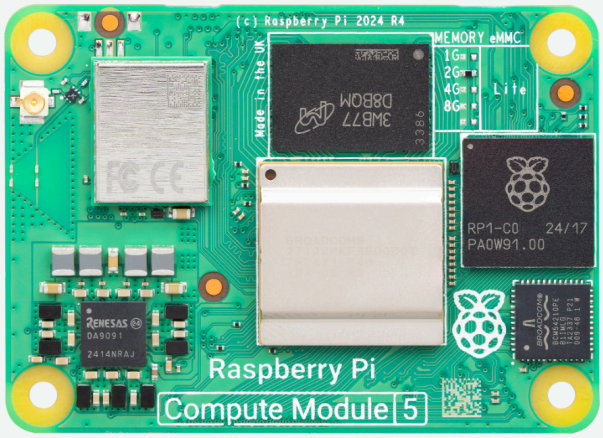
Raspberry Pi Compute Module 5 - 8GB RAM, 16GB eMMC (CM5008016)

This version of the Raspberry Pi Compute Module 5 includes a quad-core Arm Cortex-A76 processor, 8GB LPDDR4 RAM, 16GB eMMC, dual 4Kp60 HDMI output, hardware video decode at up to 4Kp60, Gigabit Ethernet, USB 3.0, dual camera...

SKU	UPDATED	PRICE
102111067	2026-11-11 09:14:37	$190.00(Excl. VAT)



Overview



This version of the Raspberry Pi Compute Module 5 includes a quad-core Arm Cortex-A76 processor, 8GB LPDDR4 RAM, 16GB eMMC, dual 4Kp60 HDMI output, hardware video decode at up to 4Kp60, Gigabit Ethernet, USB 3.0, dual camera interfaces, and PCIe Gen 2 x1 interface.

Key Features

01 **New processor**

Upgraded from CM4 CPU model BCCM2711, quad-core Arm Cortex-A72, 1.5GHz to CM5 CPU model BCCM2712, quad-core Arm Cortex-A76, 2.4GHz.

02 **New manufacturing process**

Enhanced from CM4's 28nm to CM5's 16nm

03 **Higher memory speed**

Improved from CM4 LPDDR4-3200 to CM5 LPDDR4-4267

04 **More memory options**

Includes versions with 16GB SDRAM and 64GB eMMC flash memory

05 **More powerful video output**

CM5 supports dual 4K60P output and HDR

06 **Stronger power supply**

CM5's power interface has been upgraded from 5V3A to 5V5A, supporting the PD protocol

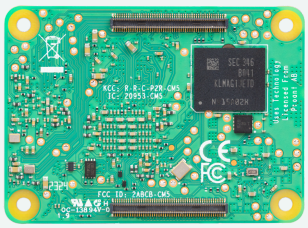
07 **Extensive I/O interfaces**

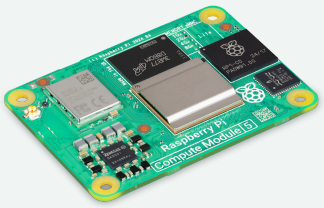
Including PCIe 2.0, USB 3.0, MIPI DSI/CSI-2, and up to 30 GPIOs supporting various protocols (UART, I2C, SPI, etc.).

08 **GPU upgraded from CM4's 600MHz VideoCore VI to CM5's 800MHz VideoCore VII**

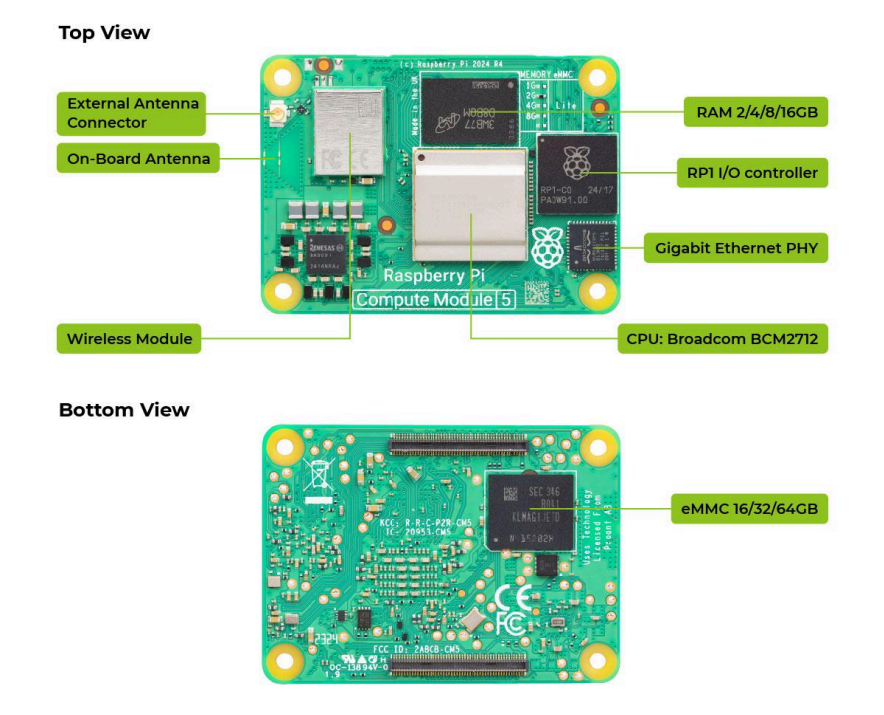
09 **CM5 supports 4Kp60 HEVC decoder and OpenGL ES 3.1, Vulkan 1.2.**

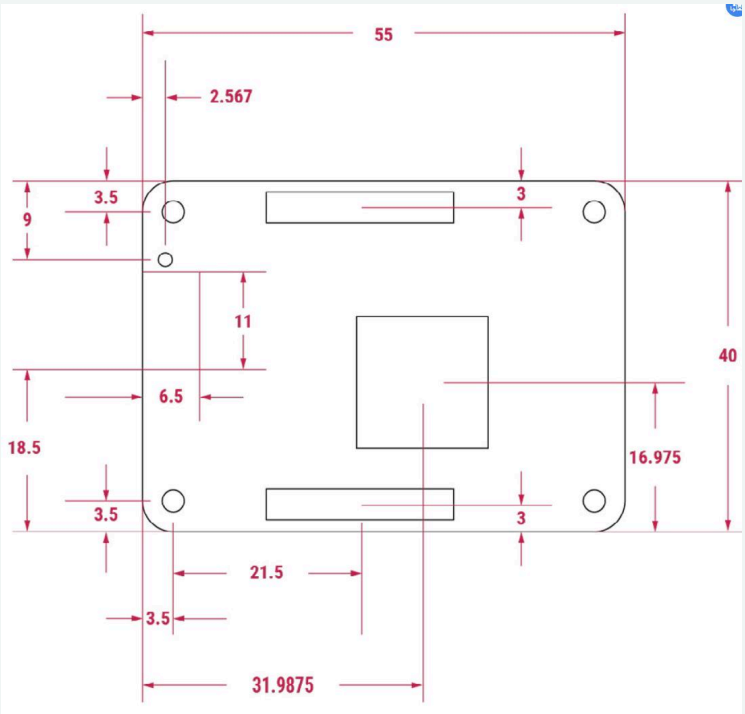
Product Gallery





Hardware Overview





Resource Links

- https://www.seeedstudio.com/Raspberry-Pi-Compute-Module-CM5008016-p-6280.html
- Raspberry Pi Compute Module 5 product brief
- Raspberry Pi Compute Module 5 datasheet
- Raspberry Pi Compute Module 5 design files

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