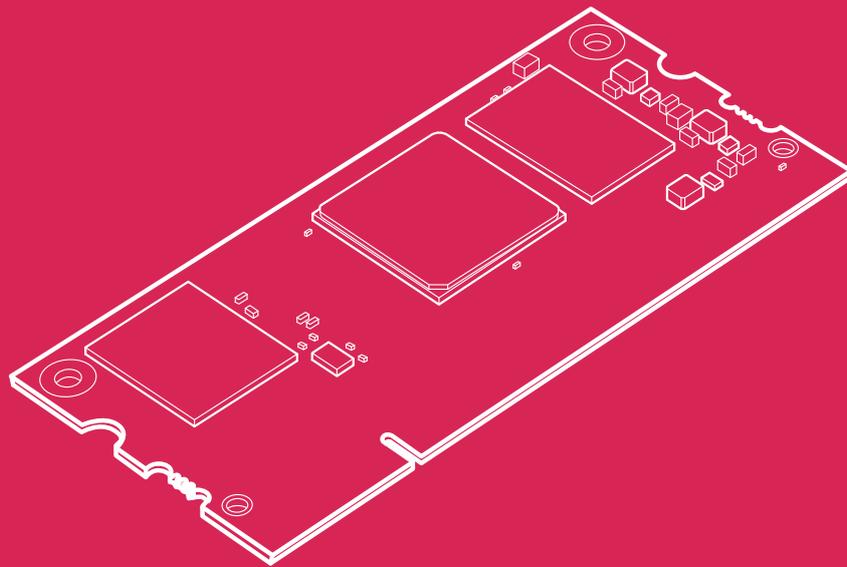




Raspberry Pi Compute Module 4S

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Overview



Raspberry Pi Compute Module 4 SODIMM (CM4S) is a System on Module (SoM) containing processor, memory, eMMC flash, and supporting power circuitry. These modules allow a designer to leverage the Raspberry Pi hardware and software stack in their own custom systems and form factors. The SODIMM form factor compute modules have 18 additional GPIO pins compared to the standard Raspberry Pi boards, for a total of 46, opening up more options for designers.

CM4S is loosely based on Raspberry Pi 4 Model B, and for cost-sensitive applications it can be supplied without the eMMC fitted; this version is called Raspberry Pi Compute Module 4 SODIMM Lite (CM4SLite).

CM4S is in the same form factor as the older Raspberry Pi Compute Module 3 and 3+, which are mechanically compatible with DDR2-SODIMM.

This device is intended for industrial customers migrating from Compute Module 3 or 3+, who wish to continue to use the SODIMM form factor or to take advantage of the increased SDRAM capacity.

Specification

Form factor: 67.6mm × 31.0mm
(compatible with JEDEC MO-224 mechanical specification for 200-pin DDR2)

NOTE

The pinout of Compute Module 4S is not the same as that of a DDR2 SODIMM module; they are not electrically compatible.

Processor: Broadcom BCM2711 quad-core 64-bit Cortex-A72 (Arm v8) at 1.5GHz

Memory:

- 1GB, 2GB, 4GB, or 8GB LPDDR4-3200 SDRAM with ECC
- 0GB (CM4SLite only), 8GB, 16GB, or 32GB eMMC flash

Connectivity:

- 1 × USB 2.0 port (high speed)
- 46 × GPIO signals
- 1 × SDIO 2.0 (CM4SLite only)

Video:

- 1 × HDMI 2.0 port (up to 4Kp60 supported)
- 1 × 2-lane MIPI DSI display interface
- 1 × 4-lane MIPI DSI display interface
- 1 × 2-lane MIPI CSI camera interface
- 1 × 4-lane MIPI CSI camera interface
- 1 × composite TV out (PAL or NTSC)

Multimedia:

- H.265 (HEVC) (up to 4Kp60 decode), H.264 (up to 1080p60 decode, 1080p30 encode)
- OpenGL ES 3.0 graphics

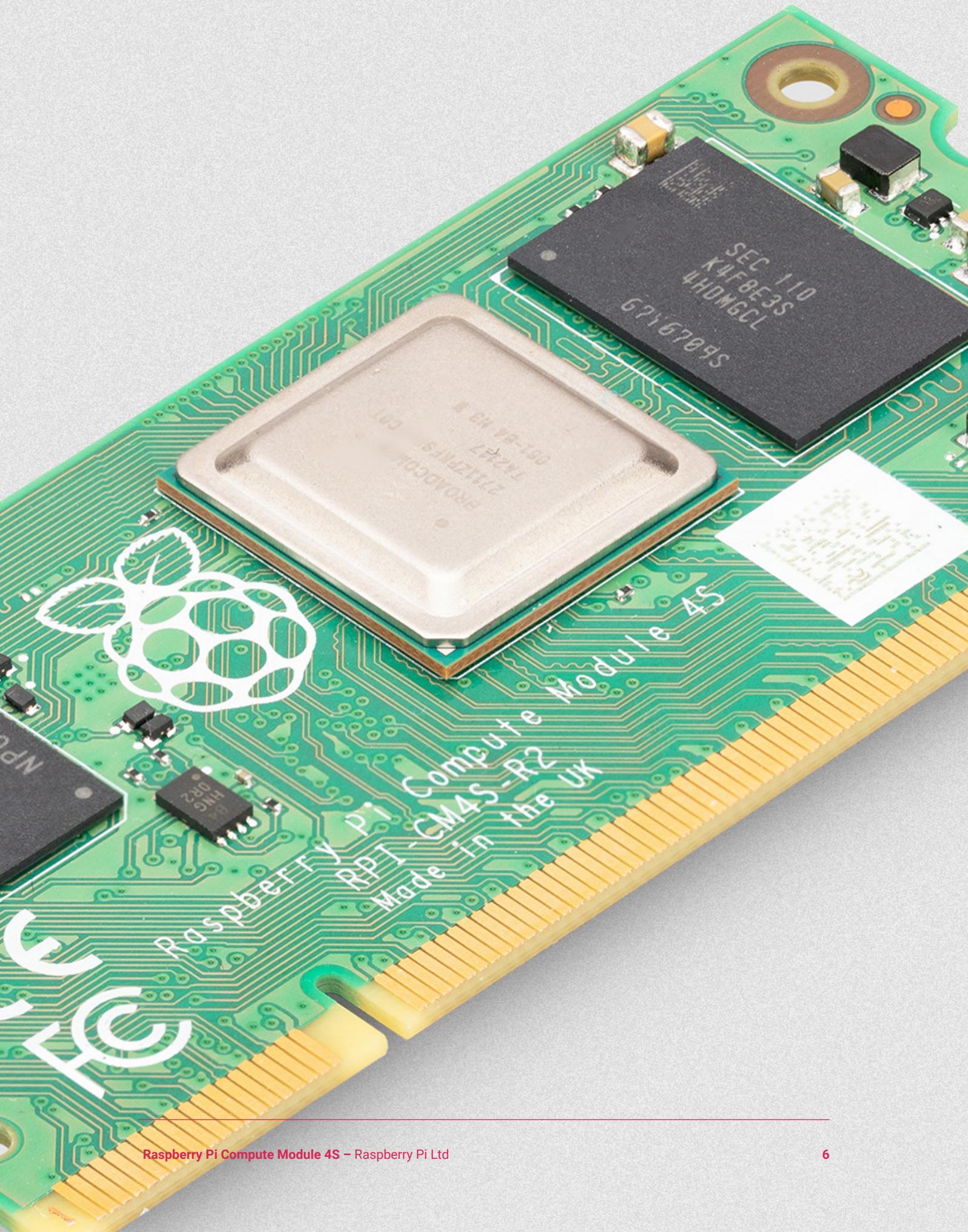
Input voltage: Requires VBAT (2.5V to 5V) and +3.3V supplies. Older Compute Modules also required +1.8V: +1.8V is no longer used but can be supplied for backward compatibility.

Production lifetime: Raspberry Pi Compute Module 4S will remain in production until at least January 2034

Pricing

Part Number	Wireless	RAM	eMMC	Price*
CM4S01000	No	1GB	0GB (Lite)	\$36.25
CM4S01008			8GB	\$51.25
CM4S01016			16GB	\$56.25
CM4S01032			32GB	\$61.25
CM4S02000		2GB	0GB (Lite)	\$52.50
CM4S02008			8GB	\$67.50
CM4S02016			16GB	\$72.50
CM4S02032			32GB	\$77.50
CM4S04000		4GB	0GB (Lite)	\$85
CM4S04008			8GB	\$100
CM4S04016			16GB	\$105
CM4S04032			32GB	\$110
CM4S08000		8GB	0GB (Lite)	\$150
CM4S08008			8GB	\$165
CM4S08016			16GB	\$170
CM4S08032			32GB	\$175

* pricing excludes sales tax and any applicable import duties





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