Raspberry Pi Compute Module 4

PCN 31 – Alternative sources of RAM

Colophon

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Release	8
Build date	03/11/2026
Build version	9ed4a6c72c4c

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Document version history

Release	Date	Description
1	17 Jun 2025	Initial release
2	5 Feb 2026	Update to cover all current RAM manufacturers
3	18 Feb 2026	Add Winbond W66DP2RQQAHJ
4	30 Apr 2026	Update firmware date
5	1 Jun 2026	Add Rayson RS1G32LV4D2BDS-46BT and Micron MT53D512M32D2DS-053 WTD
6	1 Jul 2026	Add Rayson RS512M32LM4D2BDS-53BT
7	22 Jul 2026	Add Kowin KAL4M13DCAXF-C00, KAL4M34DCAYF-C00, KAL4M55DCAYF-C00, Rayson RS512M32LO4D1BDS-53BT, RS512M32LM4D2BDS-53BT-D, RS768M32LP4D2BDS and TWSC TEL4XMA32ACX-32G
8	26 Oct 2026	Add Longsys FLXC2002G-N2, FLXC2004G-N1, TWSC TEL4XMB32ACX-16G

Product Change Notification

Notification ID

31

Notification date

PCN Release	Date
1	17 Jun 2025
2	5 Feb 2026
3	18 Feb 2026
4	30 Aug 2026
5	1 Jun 2026
6	1 Jul 2026
7	22 Jul 2026
8	26 Oct 2026

Title

Notification of alternative sources of RAM devices for Raspberry Pi Compute Module 4.

Products Affected

Raspberry Pi Compute Module 4

Reason for Change

To improve long term availability of RAM parts.

Change Description

Multiple sources of RAM devices have been qualified for use on the Raspberry Pi Compute Module 4.

PCN Release	Manufacturer	Part number	Size
1	Rayson	RS256M32LZ4D2BNP-62BT	1GB
2	Rayson	RS256M32LH4D1ANR-53BT	1GB
	Rayson	RS256M32LN4D2ANR-53BT	1GB
	Rayson	RS1G32LV4D2BDS-46BT	4GB
3	Winbond	W66DP2RQQAHJ	1GB
5	Rayson	RS2G32LV4D4BDT-46BT	8GB
	Micron	MT53D512M32D2DS-053 WTD	2GB
6	Rayson	RS512M32LM4D2BDS-53BT	2GB
7	Rayson	RS512M32LO4D1BDS-53BT	2GB

PCN Release	Manufacturer	Part number	Size
	Rayson	RS512M32LM4D2BDS-53BT-D	2GB
	Kowin	KAL4M13DCAXF-C00	1GB
	Kowin	KAL4M34DCAYF-C00	2GB
	Kowin	KAL4M55DCAYF-C00	4GB
	TWSC	TEL4XMA32ACX-32G	4GB
	Rayson	RS768M32LP4D2BDS-46BT	3GB
8	Longsys	FLXC2002G-N2	2GB
	Longsys	FLXC2004G-N1	4GB
	TWSC	TEL4XMB32ACX-16G	2GB

Raspberry Pi Ltd have extensively tested and qualified these devices and they closely match the original parts in terms of specification and performance.

Mechanical (Form, Fit, Function) Changes

None

Electrical

None

Software/Firmware Changes Required

This new product revision is supported in firmware versions from 23 Sept 2026 onwards.

If you are using the Windows `rpiboot` installer, please ensure you use version 1.1 or later.

If you are using rpiboot on Linux, please ensure you are using version 20260603 182203 or later.

If you are using rpi_sb_provisioner please use version 2.3.0 or later.

Note

Firmware is archived on GitHub at https://github.com/raspberrypi/rpi-eeprom/

SoC	Devices	Firmware versions
BCM2711	Pi 4, CM4, Pi400, CM4S	https://github.com/raspberrypi/rpi-eeprom/blob/master/firmware-2711/versions.txt
BCM2712	Pi 5, CM5, Pi500, Pi 500+	https://github.com/raspberrypi/rpi-eeprom/blob/master/firmware-2712/versions.txt

Introduction Date(s)

The new devices will start to be used from Jan 2026. All devices will continue to be used for production after this date.

PCN Release	Transition date
1	Jan 2026
2	Feb 2026
3	Feb 2026
5	Jun 2026

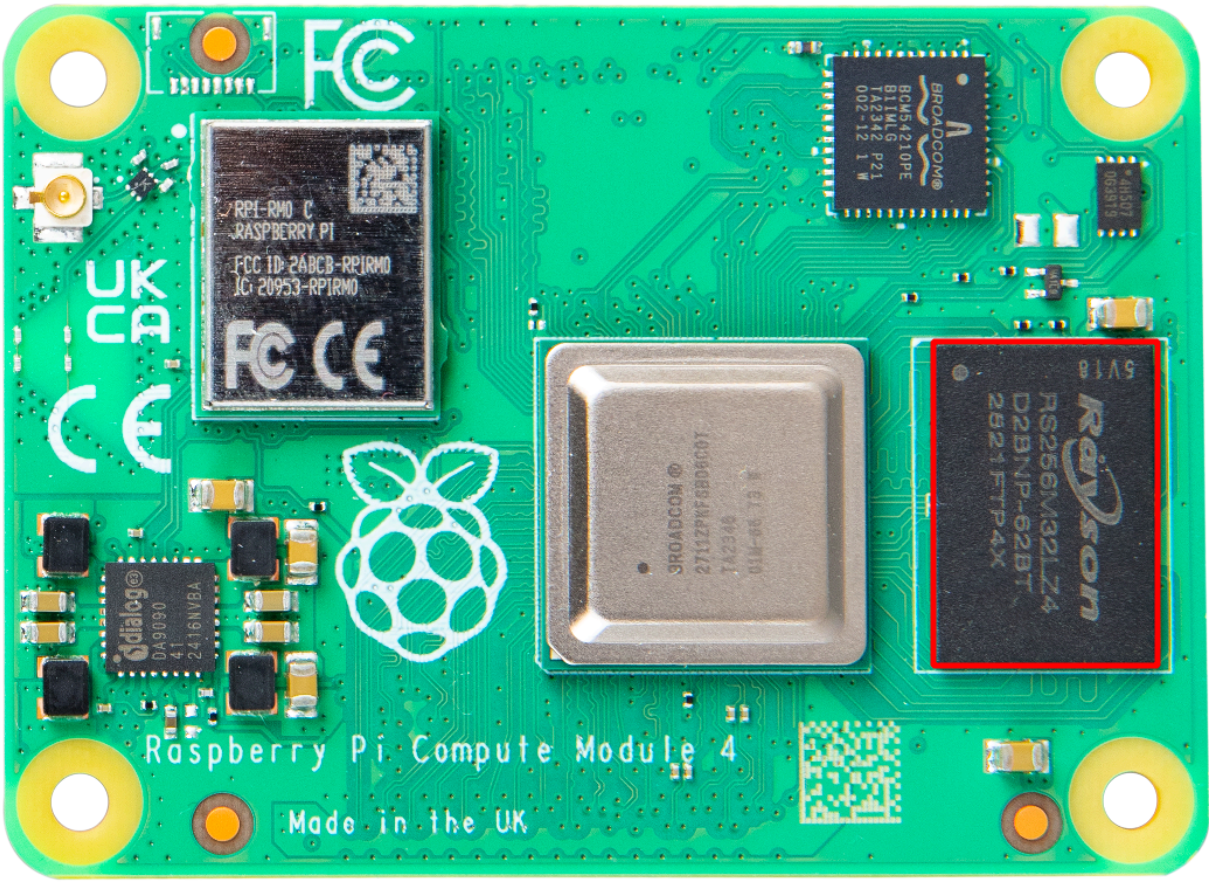
PCN Release	Transition date
6	Jul 2026
7	Jul 2026
8	Sept 2026

Important

Raspberry Pi are unable to provide information on which batches or orders may contain the new part

Identification Method to Distinguish Change

The changed product can be distinguished by examination of the RAM chip device as shown by the highlighted Rayson part in the diagram below.



Contact us for more information

Please contact applications@raspberrypi.com if you have any queries about this PCN.

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