



Raspberry Pi 5

PCN 46 – Alternative sources of RAM

Colophon

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Release	4
Build date	23/07/2026
Build version	b6ecefab8990

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Document version history

Release	Date	Description
1	5 Feb 2026	Initial release
2	17 Apr 2026	Add Rayson 8GB part
3	12 May 2026	Add CXMT 4GB and 8GB parts
4	22 Jul 2026	Add Rayson RS1G32LR4D2BNR-46BT, Longsys FLXC2002G-N2, FLXC2004G-N1, Kowin KAL4M13DCAXF-C00, TWSC TEL4XCD32ACY-32G, TEL4XMA32ACX-32G, TEL4XCD32ACY-64G, and TEL4XMB32ACX-16G parts

Product Change Notification

Notification ID

46

Notification date

r1. 5 Feb 2026
r2. 17 Apr 2026
r3. 12 May 2026
r4. 22 Jul 2026

Title

Notification of alternative sources of RAM device for Raspberry Pi 5.

Products Affected

Raspberry Pi 5

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 5.

Manufacturer	Part number	Size
Rayson	RS1G32LV4D2BDS-46BT	4GB
Winbond	W66DP2RQQAHH	1GB
Rayson	RS2G32LV4D4BDT-46BT	8GB
CXMT	CXDB5CBAM-MA-B	4GB
CXMT	CXDB6CCBM-MA-A	8GB
Rayson	RS1G32LR4D2BNR-46BT	8GB
Longsys	FLXC2002G-N2	2GB
Longsys	FLXC2004G-N1	4GB
Kowin	KAL4M13DCAXF-C00	1GB
TWSC	TEL4XCD32ACY-32G	4GB
TWSC	TEL4XMA32ACX-32G	4GB
TWSC	TEL4XCD32ACY-64G	8GB
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 5 May 2026 onwards.

The firmware version and date can be queried by running 'vcgencmd version' from the Raspberry Pi OS command line.

Raspberry Pi Ltd always recommend using the latest version of firmware and Linux kernel, wherever that is practical.

Use Raspberry Pi Imager to create a new SD card with the latest Raspberry Pi OS, or use the following to upgrade an existing system:

```
</> Code
sudo apt update
sudo apt full-upgrade
```

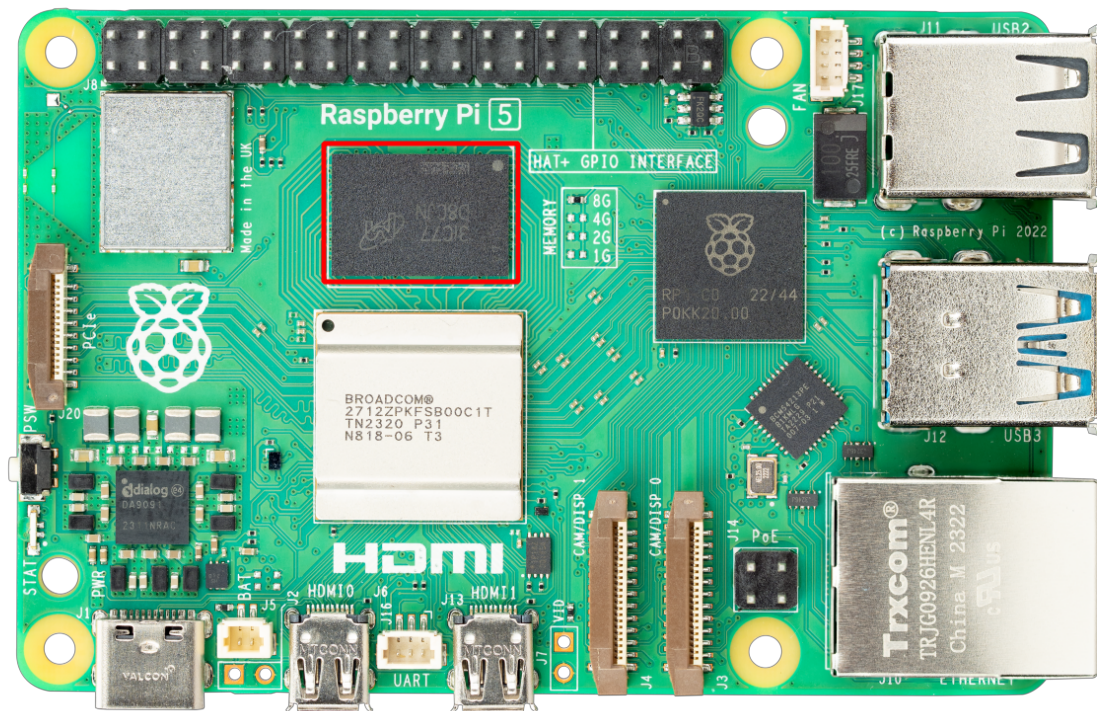
Introduction date

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

Identification Method to Distinguish Change

The new product can be distinguished by examination of the RAM device for manufacturer and part number, as shown with the Micron part in the following image.

Figure 1.
Raspberry Pi 5 RAM Location



Contact us for more information

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

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PCN 22

Raspberry Pi 5 Revision 4 PCB

Raspberry Pi Ltd

2024-08-19: githash: cd45f62-clean

Colophon

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build-date: 2024-08-19

build-version: githash: cd45f62-clean

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Document version history

Release	Date	Description
1.0	19 Aug 2024	Initial release

Product Change Notification

Notification ID

22

Notification date

19th August 2024

Title

Change of Raspberry Pi 5 PCB to Revision 4.

Products Affected

Raspberry Pi 5

Reason for Change

Minor changes to the board for Design for Manufacturing (DFM).

Support for the D0 stepping of the BCM2712 SoC.

Change Description

Old PCB revision: 3

Old software model number: 1.0

New PCB revision: 4

New software model number: 1.1

Raspberry Pi Ltd have extensively tested and qualified alternatives which closely match the original parts in terms of specification and performance.

Mechanical (Form, Fit, Function) Changes

No mechanical changes.

Electrical

No functional changes.

Software/Firmware Changes Required

This new product revision is supported in firmware versions from March 2024 onwards, and Linux kernels from v6.6.x (March 2024) onwards.

Raspberry Pi Ltd always recommend using the latest version of firmware and Linux kernel, wherever that is practical.

Use Raspberry Pi Imager to create a new SD card with the latest Raspberry Pi OS, or use the following to upgrade an existing system:

```
sudo apt update
sudo apt full-upgrade
```

Transition Date(s)

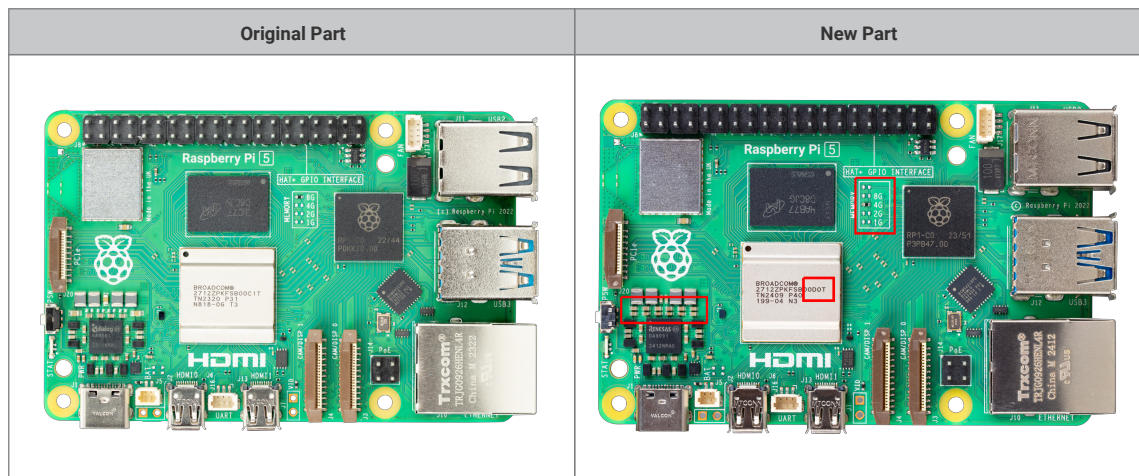
August 2024

There will be a transition period where both old and new units are available in the distribution channel.

Identification Method to Distinguish Change

The new product can be distinguished by examination of the PCB. The revision 4 board has an extra link option in the memory box silkscreen on the top face of the PCB. There are now 6 similar components above the Dialog PMIC rather than 4. The final characters on the BRCM2812 device will contain **D0**.

See the red boxed areas on the images below for details.



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