Raspberry Pi 4 Model B

PCN 45 – Dual RAM variant

Colophon

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Release	3
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Document version history

Release	Date	Description
1	30 Jan 2026	Initial release
2	2 Jun 2026	Update required firmware dates
3	6 Nov 2026	Add information that underside RAM location may be unpopulated

Product Change Notification

Notification ID

45

Notification date

PCN Release	Date
1	30 Jan 2026
2	2 Jun 2026
3	6 Nov 2026

Title

Update of Raspberry Pi 4 Model B (all variants) PCB to support dual DRAM modules.

Products Affected

Raspberry Pi 4 Model B

Reason for Change

Dual DRAM device variant to allow DRAM supply chain flexibility. Manufacturing process improvement (this new revision uses intrusive reflow soldering).

Change Description

The PCB has been revised to include a second site for DRAM placement on the rear of the board, and to allow for intrusive reflow soldering during manufacture.

Old PCB revision: 9

New PCB revision: 13a

New software model number: 1.5

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

There is now a location on the underside of the PCB for a 2nd LPDDR4 device and some small passive components have moved to accommodate this addition.

Important

This board can be used with or without the 2nd LPDDR4 device being fitted and Raspberry Pi 4 Model Bs are manufactured in both configurations.

Electrical

None

Software/Firmware Changes Required

This new product revision is supported in firmware versions from 17 May 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.

Transition Date(s)

Feb 2026

Any RAM size SKU may be built as this dual chip variant and there will be a mix of dual and single chip boards in production. For a list of possible RAM chips in use, please see PCN 46, Raspberry Pi 4 Model B, Alternative sources of RAM.

Identification Method to Distinguish Change

On a running board with the latest Raspberry Pi OS `cat /proc/cpuinfo` will report “Model” as “Raspberry Pi 4 Model B Rev 1.5”

The new product can also be distinguished by examination. The new revision PCB may have an additional RAM chip on the rear of the board and has the date 2025 silkscreened on the front of the board.

This revision of the PCB is designed for intrusive reflow manufacture so there may also be visible differences in the soldering.

Figure 1.
Front of board

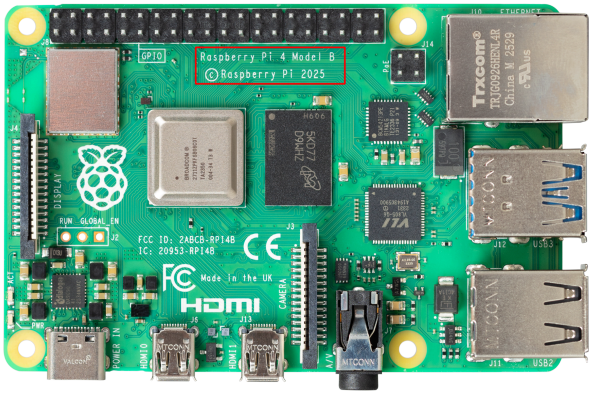
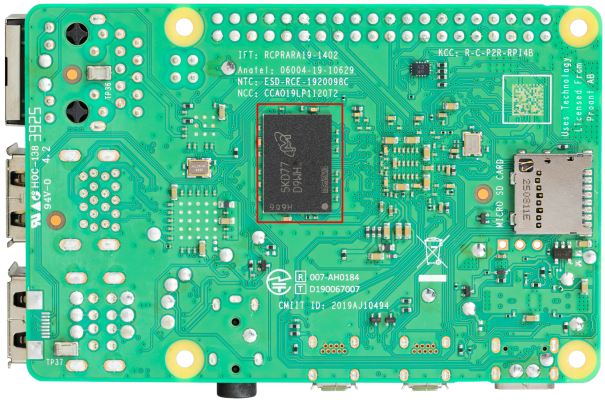


Figure 2.
Rear of board (LPDDR4 device fitted)



Contact us for more information

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