



Raspberry Pi Compute Module 4

PCN 50 – Alternative sources of
eMMC

Colophon

© 2022-2026 Raspberry Pi Ltd

This documentation is licensed under a [Creative Commons Attribution-NoDerivatives 4.0 International](#) (CC BY-ND).

Release	2
Build date	23/07/2026
Build version	65e5323386a7

Legal disclaimer notice

TECHNICAL AND RELIABILITY DATA FOR RASPBERRY PI PRODUCTS (INCLUDING DATASHEETS) AS MODIFIED FROM TIME TO TIME (“RESOURCES”) ARE PROVIDED BY RASPBERRY PI LTD (“RPL”) “AS IS” AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW IN NO EVENT SHALL RPL BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THE RESOURCES, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

RPL reserves the right to make any enhancements, improvements, corrections or any other modifications to the RESOURCES or any products described in them at any time and without further notice.

The RESOURCES are intended for skilled users with suitable levels of design knowledge. Users are solely responsible for their selection and use of the RESOURCES and any application of the products described in them. User agrees to indemnify and hold RPL harmless against all liabilities, costs, damages or other losses arising out of their use of the RESOURCES.

RPL grants users permission to use the RESOURCES solely in conjunction with the Raspberry Pi products. All other use of the RESOURCES is prohibited. No licence is granted to any other RPL or other third party intellectual property right.

HIGH RISK ACTIVITIES. Raspberry Pi products are not designed, manufactured or intended for use in hazardous environments requiring fail safe performance, such as in the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control, weapons systems or safety-critical applications (including life support systems and other medical devices), in which the failure of the products could lead directly to death, personal injury or severe physical or environmental damage (“High Risk Activities”). RPL specifically disclaims any express or implied warranty of fitness for High Risk Activities and accepts no liability for use or inclusions of Raspberry Pi products in High Risk Activities.

Raspberry Pi products are provided subject to RPL’s [Standard Terms](#). RPL’s provision of the RESOURCES does not expand or otherwise modify RPL’s [Standard Terms](#) including but not limited to the disclaimers and warranties expressed in them.

Document version history

Release	Date	Description
1	5 Jun 2026	Initial release
2	24 Jul 2026	Add eMMC size warning to software change section

Product Change Notification

Notification ID

50

Notification date

r1. 5 Jun 2026 r2. 23 Jul 2026

Title

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

Products Affected

Raspberry Pi Compute Module 4

To improve long term availability of eMMC parts.

Change Description

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

Manufacturer	Part number	Size	Type
Rayson	RS70B08G3S03F	8GB	MLC
Rayson	RS70B16G4M15G	16GB	MLC
Foresee	FEMDNN064G-C9A61	64GB	TLC

Raspberry Pi Ltd have extensively tested and qualified alternatives which meet our strict product standards.

Mechanical (Form, Fit, Function) Changes

None

Electrical

None

Software/Firmware Changes Required

eMMC devices from different vendors may not have identical User Data Area capacity. While Raspberry Pi endeavors to ensure parity across all devices, we are unable to guarantee identical usable capacity. The black-box nature of an eMMC device means that the vendor's proprietary controller, firmware, non-volatile storage cluster, and bad-block redundancy strategy may result in subtle differences in usable capacity for the same advertised size.

When preparing/provisioning devices for deployment, Raspberry Pi recommends that OEMs do not pad images to fit the exact capacity of a device. Instead, the provisioning flow should involve on-device resizing of partitions/filesystems to safely maximise

available capacity while adhering to storage media size limits. Doing so also reduces the need to transfer 'empty' data to the device, therefore reducing per-unit provisioning time.

Please refer to <https://github.com/raspberrypi/rpi-sb-provisioner/> for further details.

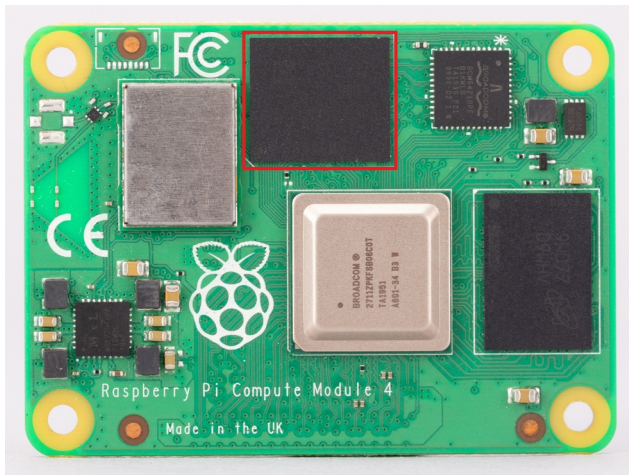
Transition Date(s)

1 Jun 2026

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 eMMC device, highlighted in the following image.



Contact us for more information

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

Web: www.raspberrypi.com



Raspberry Pi

Raspberry Pi is a trademark of Raspberry Pi Ltd