PCN 5
Compute Module 4, Release 5

Raspberry Pi Ltd

Colophon

Version 1.3
Build date: 24/04/2025

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Document version history

Release	Date	Description
1.0	6th December 2021	Initial release
1.1	16th December 2021	Update previous revision number (changed from 4 to 3)
1.2	29th August 2023	Updated revision 5 images to production model
1.3	24th April 2025	Correction to start4.elf

Notification date

6th December 2021

Title

Change of Compute Module 4 (CM4) to Revision 5.

Products Affected

Compute Module 4 (CM4) - all variants.

Reason for Change

Change of supplier of Power Management Integrated Circuit (PMIC).

Change Description

Old PCB revision: 3

Old software model number: 1.0

New PCB revision: 5

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 overall change to the form factor of the device.

Electrical

Change of PMIC to DA9090 and associated PCB changes to suit.

Software/Firmware Changes Required

This new product revision is supported in firmware versions from July 2021 onwards.

The firmware version can be queried by running 'vcgencmd version' from the Raspberry Pi OS command line. It can also be found for an image by running

```
strings /boot/firmware/start4.elf | grep VC_BUILD
```

(where /boot/ is the boot partition of the filesystem).

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

Transition Date(s)

1st April 2022.

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

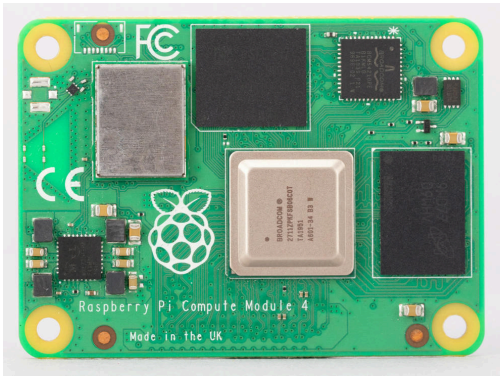
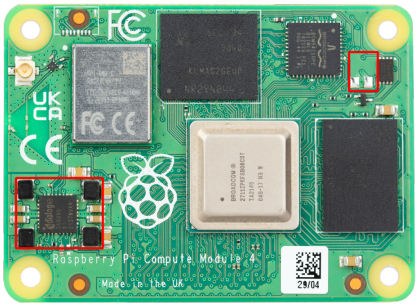
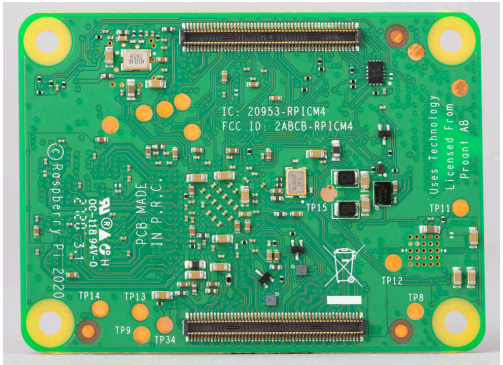
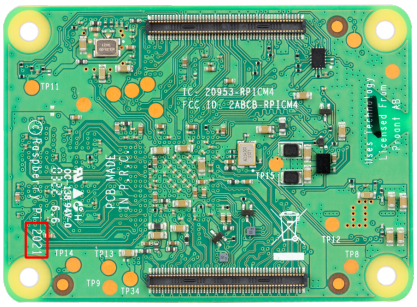
Identification Method to Distinguish Change

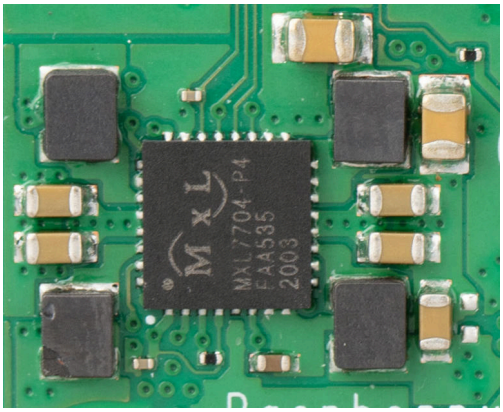
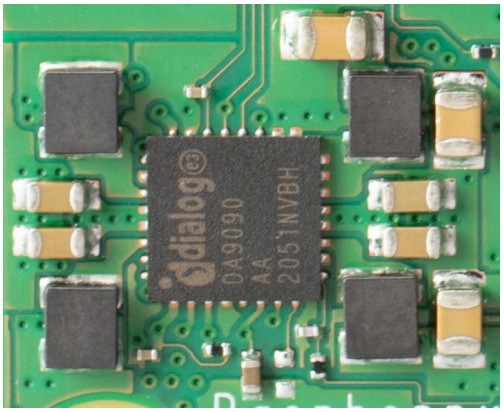
The new product can be distinguished by the change in name on the PMIC and component changes around the PMIC, and an inductor and resistor have been removed from the front of the board. There is a date change to 2021 on the silkscreen.

In software, new product can be distinguished by:

`cat /proc/cpuinfo` will report "Model" as "Raspberry Pi Compute Module 4 Rev 1.1"

Table 1: Comparison Images

Original Part	New Part
	
	

Original Part	New Part
	

Appendix

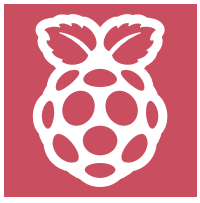
New SKU's for the Revision 5 board.

Part	Old SKU	New SKU
M4102000	SC0275	SC0667
M4102008	SC0276	SC0668
M4102016	SC0277	SC0669
M4102032	SC0278	SC0670
M4104000	SC0279	SC0671
M4104008	SC0280	SC0672
M4104016	SC0281	SC0673
M4104032	SC0282	SC0674
M4108000	SC0283	SC0675
M4108008	SC0284	SC0676
M4108016	SC0285	SC0677
M4108032	SC0286	SC0678
M4002000	SC0287	SC0679
M4002008	SC0288	SC0680
M4002016	SC0289	SC0681
M4002032	SC0290	SC0682
M4004000	SC0291	SC0683
M4004008	SC0292	SC0684
M4004016	SC0293	SC0685
M4004032	SC0294	SC0686
M4008000	SC0295	SC0687
M4008008	SC0296	SC0688
M4008016	SC0297	SC0689
M4008032	SC0298	SC0690
M4101000	SC0314	SC0691
M4101008	SC0315	SC0692
M4101016	SC0316	SC0693
M4101032	SC0317	SC0694
M4001000	SC0318	SC0695
M4001008	SC0319	SC0696
M4001016	SC0320	SC0697
M4001032	SC0321	SC0698

Contact Details for more information

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

Web: `www.raspberrypi.com`



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