
PCN

Raspberry Pi 4 Revision 6 PCB

Raspberry Pi (Trading) Ltd

2021-10-12: githash: c6a7fd2-clean

Colophon

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Document version history

Release	Date	Description
1.0	6th July 2021	• Initial release

Product Change Note

Notification date

30th June 2021

Title

Change of Raspberry Pi 4 PCB to Revision 6.

Product Identification

Raspberry Pi 4 devices (2GB and 4GB memory densities)

Reason for Change

To optimise the supply chain by moving the 2GB and 4GB product SKUs to use the same R6 PCB as the 8GB models.

Change Description

Old PCB revision: R5

Old software model number: 1.2

New PCB revision: R6

New software model number: 1.4

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

Mechanical (Form, Fit, Function) Changes

- Dialog DA9121 PMIC added, displacing TVS diode.
- Remove separate standalone switching regulator near USB2 socket (replace with moved TVS diode).

Electrical

- Remove AP3429KTTR-G1 standalone buck converter
- Add DA9121 dual-phase switching controller and associated components to power 2711 core
- Add current-limiting SD card power switch controlled from GPIO expander

Software/Firmware Changes Required

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

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

```
strings /boot/start.elf | grep VC_BUILD
```

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

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

Transition Date(s)

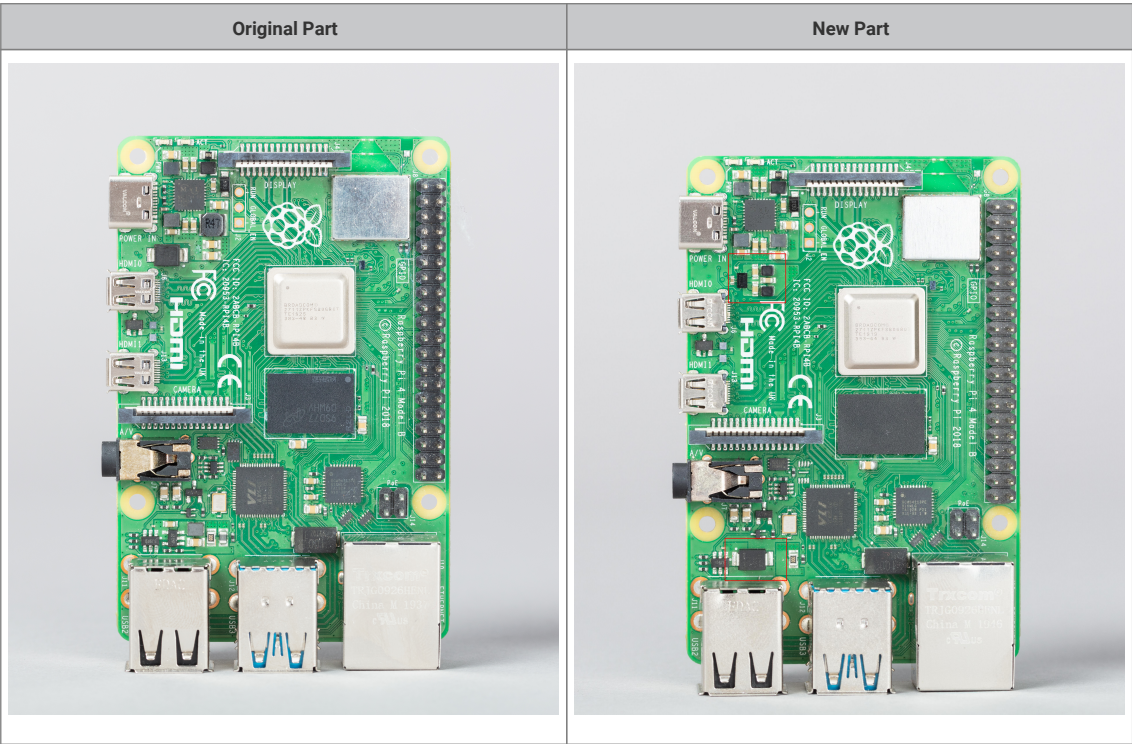
January 2021

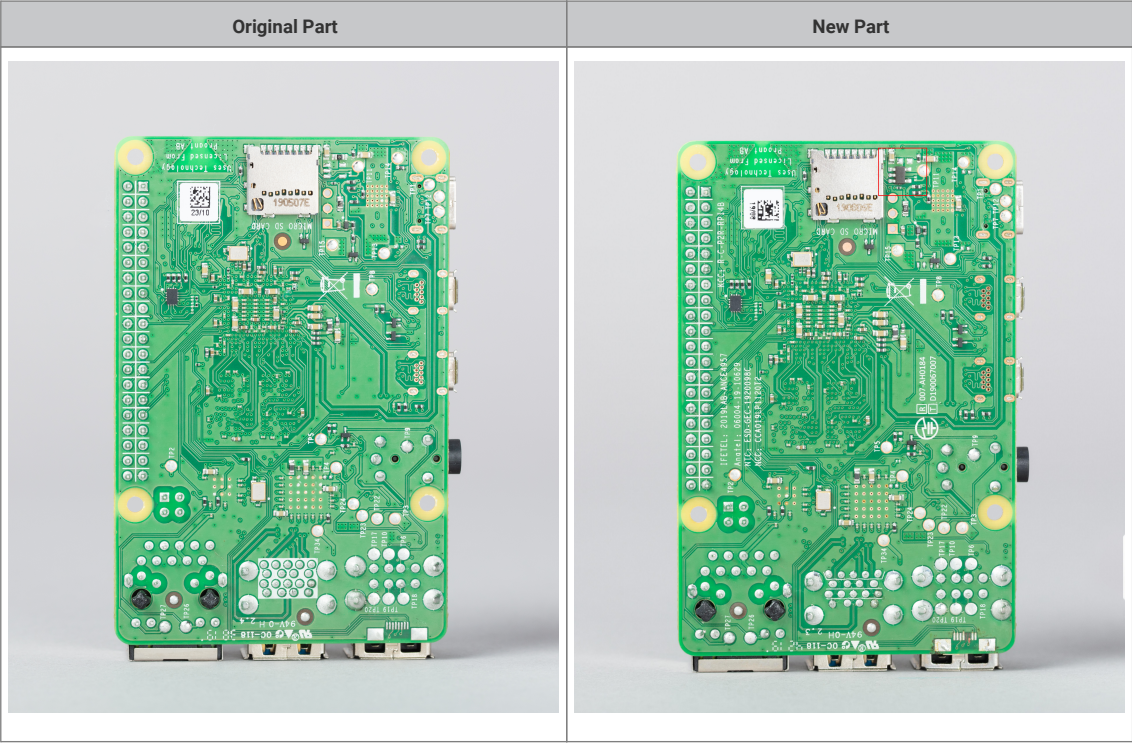
There will be a transition period where both old and new units are available in the distribution channel.

Identification Method to Distinguish Change

New product can be distinguished by:

- `cat /proc/cpuinfo` will report "Model" as "Raspberry Pi 4 Model B Rev 1.4"
- Look for DA9121 device, TVS diode move.





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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