



Raspberry Pi Product Change Notification

RPI-PCN-CM-001

Notification date:

7th April 2017

Title:

Change of eMMC Flash and LPDDR2 memory parts.

Product Identification:

Raspberry Pi Compute Module V1.1 (Made in PRC and Made in UK versions).

Reason for Change:

EOL of KLM4G1FEAC-B031 (Samsung 4GByte eMMC Flash).

EOL of K4P4G324EQ-RGC2 (Samsung 4Gbit LPDDR2 Memory).

Change Description:

The current eMMC and LPDDR2 parts are end of life (EOL).

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

Part Description and Ref	Original Part	New Part
4GByte eMMC (U2)	Samsung KLM4G1FEAC-B031	Samsung KLM4G1FEPD-B031
4Gbit LPDDR2 (U1A)	Samsung K4P4G324EQ-RGC2	Micron EDB4432BBPA-1D-F-R

Mechanical (Form, Fit, Function) Changes:

None.

Firmware Changes Required:

Firmware older than November 2015 should be updated.

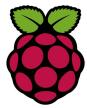
Older firmware may still work but not set up the LPDDR2 memory optimally.

Very old firmware may not boot on the device.

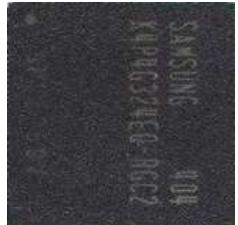
Transition Date(s):

New manufacturing runs from April 2017 in both China and UK factories will produce product with both new parts.

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 the markings on the eMMC device (U2) and LPDDR2 memory device (U1).

Reference	Original Part	New Part
U2	 The markings on the original eMMC device are partially visible and appear to read: U2 SEC 637 0031 V1N4G1F1P0 • 54P2R66YU	 The markings on the new eMMC device are clearly visible and read: U2 SEC 637 0031 V1N4G1F1P0 • 54P2R66YU
U1	 The markings on the original LPDDR2 device are partially visible and appear to read: U1 SAMSUNG K9PG3400GQ2 4GB	 The markings on the new LPDDR2 device are clearly visible and read: U1 ELPIDA B443288PA-1D-F 16250R01300