

Product Change Notification (PCN)

Transition from Colibri iMX6ULL 512MB WB IT V1.0A to Colibri iMX6ULL 512MB WB IT V1.1A

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1. Toradex Product Numbers Affected

EOL Product		Replacement Product	
Part Number	Product Name	Part Number	Product Name
00401000	Colibri iMX6ULL 512MB WB IT V1.0A	00401100	Colibri iMX6ULL 512MB WB IT V1.1A

2. Product Phase in / Phase out Schedule

EOL Product		Replacement Product	
Part Number	Estimated Schedule	Part Number	Estimated Schedule
00401000	Product sales discontinued due to the change of the Wi-Fi module for certification reasons.	00401100	Sample Production: Limited numbers available now. Volume Production: Q1 2019

Customers are strongly encouraged to convert their designs to the replacement parts listed above. Toradex also advises customers to carefully validate the new product version before their production release.

3. Description of Changes

From 00401000 Colibri iMX6ULL 512MB WB IT V1.0A to 00401100 Colibri iMX6ULL 512MB WB IT V1.1A:

- Replaced the Wi-Fi / BT module Wi2Wi WM828CC6 with Azurewave AW-CM276NF
- Power gate circuit added for Ethernet PHY in order to resolve Microchip KSZ8041NL errata (see [Colibri iMX6ULL Errata #1](#))
- Power rail switch between main 3.3V input rail and VCC_BATT in order to improve voltage level of SNVS GPIO pins
- Reset circuit improved

4. Customer Impact

4.1. Hardware Design

- Change of Wi-Fi module:
 - Previous Wi-Fi module was equipped with a single antenna connector while the new allows dual antenna in a 2x2 configuration. However, it is possible to use the new Wi-Fi solution in a single antenna configuration.
 - Connector of the main antenna is almost at the same place as the connector of the previous Wi-Fi solution.
 - The Bluetooth LED pin has been moved from SODIMM pin 110 to 126
 - End product certifications done for the previous Wi-Fi solution are not valid for the new solution.
- Power gating of Ethernet PHY
 - Lower power consumption achievable for low power modes in which Ethernet is turned off.
- VCC_BATT power rail switching
 - More stable logic levels of the SNVS GPIO pins.
 - If the series diode between coin cell battery and SODIMM pin 40 (VCC_BATT) is missing, battery could get damaged. This diode is recommended in all Toradex reference designs and guides. Customers following these recommendations won't see any impact.
- Reset circuit improvement
 - No customer impact

4.2. Software

- Change of Wi-Fi module:
 - The new Wi-Fi module is based on a chipset from the same Marvell Wi-Fi chipset family which doesn't require different drivers but different firmware. The new firmware is included from embedded Linux BSP version 2.8b4.
- Power gating of Ethernet PHY
 - No customer impact
- VCC_BATT power rail switching
 - No customer impact. Switching is done automatically when PHY clock gets disabled.
- Reset circuit improvement
 - No customer impact

5. Definitions

LTB: Last Time Buy

LTS: Last Time Ship

EOL: End Of Life

6. Contact

Please contact Toradex if you have any questions.

For commercial and sales questions please contact shop@toradex.com

For technical questions please contact support@toradex.com