

Product Change Notification (PCN): Apalis iMX6 (non IT) eMMC and Gigabit Ethernet Transceiver changes

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Updated on: 07 Jan 2022 Change #2: Gigabit Ethernet Transceiver - product version typo

Updated on: 06 Oct 2022 Change in chapter 3, marked **orange**

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1. Affected Product Numbers

End of Life Product		Replacement Product	
Part Number	Product Name	Part Number	Product Name
00271101	Apalis iMX6Q 1GB V1.1B	00271102	Apalis iMX6Q 1GB V1.1C (intermediate version)
		00271103	Apalis iMX6Q 1GB V1.1D
00271125	Apalis iMX6Q 1GB V1.1Z (temporary version)	00271124	Apalis iMX6Q 1GB V1.1Y (temporary version)
00291101	Apalis iMX6D 512MB V1.1B	00291102	Apalis iMX6D 512MB V1.1C

2. Product Phase in / Phase-out Schedule

End of Life Product		Replacement Product	
Part Number	Estimated Schedule	Part Number	Estimated Schedule
00271101	Due to component supply issues, we can't assure last time buy (LTB) and last time ship (LTS) options. The current product version will be sold until limited inventory is depleted.	00271102	Samples and limited volumes available now
00271125		00271103	Samples in February 2022
00291101		00271124	Volumes in March 2022
		00291102	Samples available now Volumes in February 2022

Toradex advises its customers to carefully validate the new product version before their production release. Samples for evaluation purposes are available upon request. Existing orders are also affected.

3. Description of Changes

Change #1: eMMC

Affected products	Change
00271101 Apalis iMX6Q 1GB V1.1B 00271125 Apalis iMX6Q 1GB V1.1Z 00291101 Apalis iMX6D 512MB V1.1B	Replacing eMMC: Micron MTFC4GACAJCN-1M WT with SkyHigh S40FC004C1B1C00

Change #2: Gigabit Ethernet Transceiver

Affected products	Change
00271101 Apalis iMX6Q 1GB V1.1B 00271125 Apalis iMX6Q 1GB V1.1Z	Replacing Gigabit Ethernet Transceiver: KSZ9031RNXIC with KSZ9131RNXI <ul style="list-style-type: none"> implemented in 00271102 Apalis iMX6Q 1GB V1.1D and 00271124 Apalis iMX6Q 1GB V1.1Y

Note: Gigabit Ethernet Transceiver change is not implemented in ~~00271103~~ 00271102 Apalis iMX6Q 1GB V1.1C (where we still use KSZ9031RNXIC)

Change #3: Toradex Easy Installer

Affected products	Change
00271101 Apalis iMX6Q 1GB V1.1B	Replacing the pre-installed software from Toradex Easy Installer 1.8 to Toradex Easy Installer 5.3.0.
00271125 Apalis iMX6Q 1GB V1.1Z	
00291101 Apalis iMX6D 512MB V1.1B	

4. Customer Impact

Hardware

- No impact on the hardware side is expected. However, please carefully verify the new product version in your environment.

Software

- eMMC changes usually do not affect customer software, however, please validate your use case. The SkyHigh S40FC004C1B1C00 eMMC has a different boot partition size than Micron MTFC4GACAJCN-1M WT. Since our config block is always located in the last block of the primary boot partition, the absolute address of the config block changes. Customers not specifically writing the config block or using relative addressing are not affected by this change. It is recommended to review and test your software, especially if you have customized Toradex-provided software or used your own software to take advantage of eMMC-specific features. This change could furthermore also affect factory programming.
- The pre-installed software on the new product version changes from Toradex Easy Installer 1.8 to Toradex Easy Installer 5.3.0. Easy Installer is typically used for factory programming.
We do not expect customer impact if you previously used Toradex Easy Installer 1.8. As with all changes, we recommended validating the new version in your setup as soon as possible. Easy Installer 5.3.0 is available today and also works on the current version of the SoM. Learn how to update Easy Installer here: <https://developer.toradex.com/software/toradex-easy-installer#tab-getting-started>
- Linux: Gigabit Ethernet Transceiver change is supported from BSP 3 (3.0b4.254) onwards. If you are using earlier BSP versions, the new Gigabit Ethernet Transceiver will not work without a patch. Since BSP 2.8 is still on LTS phase, there is a new release available including the necessary patch. Toradex recommends all customers to take the opportunity and migrate to the newer BSP LTS 3 or BSP LTS 5 releases benefiting from all optimizations, including Linux Kernel updates and security fixes.
- WinCE: Customers using WinCE as operating system will need to replace the respective driver of the new Ethernet Gigabit Ethernet Transceiver KSZ9131RNXI. Toradex is in the process of releasing new WinCE BSPs which will then also support the debugging functionality in the kernel. Updated information will be available here: <https://developer.toradex.com/software/windows-embedded-compact/imx6-wec-software/release-details>

5. 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