

# Product Change Notification (PCN): Apalis iMX6 IT eMMC and Ethernet Gigabit Ethernet Transceiver changes - Update Nov. 28 2023

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Updated on 28 Nov 2023 Changes: "Customer Impact" to provide details on replacing the pre-installed software from Toradex Easy Installer 1.8 to Toradex Easy Installer 5.3.0.

## Table of Contents

- 1. Affected Product Numbers
- 2. Product Phase in / Phase-out Schedule
- 3. Description of Changes
  - Change #1: eMMC
  - Change #2: Gigabit Ethernet Transceiver
  - Change #3: Toradex Easy Installer
- 4. Customer Impact
  - Hardware
  - Software
- 5. Contact

## 1. Affected Product Numbers

End of Life Product		Replacement Product	
Part Number	Product Name	Part Number	Product Name
00281102	Apalis iMX6Q 2GB IT V1.1C	00281103	Apalis iMX6Q 2GB IT V1.1D
00281125	Apalis iMX6Q 2GB IT V1.1Z (temporary version)	00281124	Apalis iMX6Q 2GB IT V1.1Y (temporary version)
00351101	Apalis iMX6D 1GB IT V1.1B	00351102	Apalis iMX6D 1GB IT V1.1C

## 2. Product Phase in / Phase-out Schedule

End of Life Product		Replacement Product	
Part Number	Estimated Schedule	Part Number	Estimated Schedule
00281102	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.	00281103	Samples in December 2021
00281125		00281124	Volumes in February 2022
00351101		00351102	

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

### 3. Description of Changes

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#### **Change #1: eMMC**

Replacing eMMC: Micron MTFC4GACAJCN-4M IT with Macronix MX52LM04A11XUI

#### **Change #2: Gigabit Ethernet Transceiver**

Replacing Gigabit Ethernet Transceiver: KSZ9031RNXIC with KSZ9131RNXI

#### **Change #3: Toradex Easy Installer**

Replacing the pre-installed software from Toradex Easy Installer 1.8 to Toradex Easy Installer 5.3.0.

### 4. Customer Impact

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#### **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 Micron MTFC4GACAJCN-4M IT features larger boot partitions (16MB) compared to the Macronix MX52LM04A11XUI (4MB). Toradex uses the last block of the primary boot partition to store important information such as the module's serial number in the so-called config block. Due to the different boot partition size the absolute location of this config block changed. All Toradex provided software calculates the config block address relative to the end of the boot partition, hence there is no software impact for standard software.

Customers who explicitly write the config block to a fixed eMMC block number need to update the block number. 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. A typical location to find such customizations is the customer's factory programming process.

- **The pre-installed software on the Replacement Product changes from Toradex Easy Installer 1.8 to Toradex Easy Installer 5.3.0. Toradex Easy Installer is typically used for the factory programming of SoMs.**

**As Toradex Easy Installer 5.3.0 is featuring a newer major version of the Linux Kernel, there is a potential impact on customers' factory programming procedure. Therefore, we strongly advise to validate this new version of Toradex Easy Installer as soon as possible, especially if the factory programming procedure is relying on the following scripts: prepare\_script, wrapup\_script, error-script.**

**Customers can instantly download, install and validate the new version of Toradex Easy Installer. More information is available here: <https://developer.toradex.com/easy-installer/toradex-easy-installer/loading-toradex-easy-installer/>**

- 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 a new WinCE BSPs which will integrate this driver and also support the debugging. Updated information will be available here: <https://developer.toradex.com/software/windows-embedded-compact/imx6-wec-software/release-details>

## 5. Contact

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- Please contact Toradex if you have any questions.
- For commercial and sales questions, please contact [shop@toradex.com](mailto:shop@toradex.com)
- For technical questions, please contact [support@toradex.com](mailto:support@toradex.com)