

Product Change Notification (PCN): 0039 Colibri iMX7D 1GB V1.1A to Colibri iMX7D 1GB V1.1B

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Updated on: 25 Nov 2021 Rev. 2 Changes: Updated “Description of Changes” to emphasize Torizon Easy Installer change and new reset setup.

Updated on: 16 Dec 2021 Rev. 3 Changes: Updated “Customer Impact” to emphasize rare software impact of eMMC change.

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1. Affected Product Numbers

| End of Life Product | | Replacement Product | |
|---------------------|-------------------------|---------------------|-------------------------|
| Part Number | Product Name | Part Number | Product Name |
| 00391100 | Colibri iMX7D 1GB V1.1A | 00391101 | Colibri iMX7D 1GB V1.1B |

2. Product Phase in / Phase-out Schedule

| End of Life Product | | Replacement Product | |
|---------------------|--|---------------------|---------------------------------|
| Part Number | Estimated Schedule | Part Number | Estimated Schedule |
| 00391100 | Due to memory 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. | 00391101 | Samples/Volume in November 2021 |

Toradex advises its customers to carefully validate the new product version before their production release.

3. Description of Changes

Change #1: eMMC

| Affected products | Change |
|----------------------------------|---|
| 00391100 Colibri iMX7D 1GB V1.1A | Replacing eMMC (non-IT): Micron MTFC4GACAJCN-1M WT with SkyHigh S40FC004C1B1C00 |

Change #2: Torizon Easy Installer

| Affected products | Change |
|----------------------------------|---|
| 00391100 Colibri iMX7D 1GB V1.1A | Replacing the pre-installed software from Toradex Easy Installer 1.8 to Toradex Easy Installer 5.3.0. |

Change #3: Default reset behavior

| Affected products | Change |
|----------------------------------|---|
| 00391100 Colibri iMX7D 1GB V1.1A | <p>The reset setup was changed by fusing the SoC with fast boot acknowledge enabled, using the following U-Boot command:</p> <pre style="border: 1px solid #ccc; padding: 10px; text-align: center;">fuse prog -y 2 2 0x00000003</pre> <p>The hardware eMMC reset was enabled by fusing the SoC and programming the eMMC, using the following U-Boot commands:</p> <pre style="border: 1px solid #ccc; padding: 10px; text-align: center;">fuse prog -y 1 3 0x10002ae4 mmc rst-function 0 1</pre> |

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 features larger boot partitions (4MB) compared to the Micron MTFC4GACAJCN-1M WT (2MB). 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 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.

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 change Easy Installer here: <https://developer.toradex.com/software/toradex-easy-installer#tab-getting-started>

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