

Product Change Notification (PCN): Apalis iMX8 0048 and 0049 - eMMC change

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1. Affected Product Numbers

End of Life Product		Replacement Product	
Part Number	Product Name	Part Number	Product Name
00481102	0048 Apalis iMX8QP 2GB WB V1.1C	00481103	0048 Apalis iMX8QP 2GB WB V1.1D
00491102	0049 Apalis iMX8QP 2GB V1.1C	00491103	0049 Apalis iMX8QP 2GB V1.1D

2. Product Phase-in / Phase-out Schedule

End of Life Product		Replacement Product	
Part Number	Estimated Schedule	Part Number	Estimated Schedule
00481102	Due to component availability constraints, we cannot assure last time buy (LTB) and last time ship (LTS). The current product version will be sold until limited inventory lasts.	00481103	Q2 2023
00491102		00491103	Q2 2023

Customers are strongly encouraged to convert their designs to the replacement parts listed above. Compatibility of the end of life parts with future software releases is not guaranteed. Toradex also advises customers to carefully validate the new product version before their production release, since the product has not yet reached the Volume Product life-cycle state.

3. Change Details

Change #1: eMMC

The eMMC part Micron MTFC16GAPALBH-IT has been replaced with the Kingston EMMC32 G-TX29.

4. Customer Impact

Hardware

- The eMMC capacity has increased from 16GB to 32GB.
- The NAND cell type and arrangement implemented by the eMMC have changed from 2D MLC to 3D TLC. Depending on the use case, this may have an impact on the behavior, the performance and the lifetime of the eMMC. For more information, please refer to [the related article](#) on our Developer Website.

Software

- eMMC changes usually do not affect customer software, however, please validate your use case. The Kingston eMMC features a different hardware area boot partition size compared to the Micron part. Toradex uses the last block of the primary hardware area boot partition to store important information such as the module's serial number in the so-called Config Block. Due to the different hardware area 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 hardware area 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 common process to find such customizations is in the customer's factory programming process.

5. Contact

- Please contact Toradex if you have any questions:
 - For commercial and sales questions, please contact shop@toradex.com or your Toradex sales representative.
 - For technical questions, please contact support@toradex.com.