

Product Change Notification (PCN): 0037 Apalis iMX8QM 4GB WB IT V1.1E and 0047 Apalis iMX8QM 4GB IT V1.1D

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1. Affected Products

End of Life Product		Replacement Product	
Part Number	Product Name	Part Number	Product Name
00371104	Apalis iMX8QM 4GB WB IT V1.1E	00371105	Apalis iMX8QM 4GB WB IT V1.1F
00471103	Apalis iMX8QM 4GB IT V1.1D	00471104	Apalis iMX8QM 4GB IT V1.1E

2. Product Phase-in / Phase-out Schedule

End of Life Product		Replacement Product	
Part Number	Estimated Schedule	Part Number	Estimated Schedule
00371104	Last time buy (LTB): 2024-10-13	00371105	Samples: July/2024
00471103	Last time ship (LTS): 2025-04-11	00471104	

3. Description of Changes

Change #1: SoC change

- SoC part number has changed from NXP MIMX8QM6AVUFFAB to NXP MIMX8QM5AVUFFAB

Change #2: RAM Change

- RAM part number has changed from Micron MT53D512M32D2DS-046 IT:D to Micron MT53E512M32D1ZW-046 IT:B

Change #3: R51 assembly state from assembled to not assembled

- Strapping of the KSZ9131 Ethernet PHY changed from “1111” (which is reserved on KSZ9131) to “1110”

Change #4: Edge Connector Chamfering

- The PCB edge connector changed from non-chamfered to chamfered

Change #5: Ethernet clock source change

- OSC4 has changed from MEMS to crystal-based type

4. Customer Impact

Hardware

- The high level of Jitter typical of MEMS-based oscillators could cause, in certain situations, a negative result on the related Ethernet compliance section. By replacing the ethernet clock source from a MEMS to a crystal-based type these negative results should be solved. Relates to HAR-10131: <https://developer-archives.toradex.com/apalis-imx8-issue-tracker?key=HAR-10131#tab-errataknown-issues>
- No HiFi 4 DSP feature due to SoC change
- No other impact is expected, however please carefully verify the new product version in your environment.

Software

Torizon OS

- No impact is expected due to the changes mentioned above.

Toradex Embedded Linux BSP

- No impact is expected due to the changes mentioned above.

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