

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

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Update #1 on 07 May 2024: The Hardware section on “Customer Impact” has been updated.

Update #2 on 16 Oct 2024: The LTB date has been extended

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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): 2025-01-16	00371105	Samples: July/2024
00471103	Last time ship (LTS): 2025-06-11	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 change of the clock source of the on-SoM Ethernet PHY from a MEMS oscillator to a crystal-based device results in lower jitter and addresses the potential Ethernet compliance issue from HAR-10131: <https://developer-archives.toradex.com/apalis-imx8-issue-tracker?key=HAR-10131#tab-errataknown-issues> .

Software support has never been added for the HiFi 4 DSP IP featured in the SoC. By changing to a different SoC part number, the hardware DSP feature is removed accordingly. There's no impact on other IPs and characteristics of the SoC.

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