Product Change Notification (PCN): 00881000 Aquila AM69 Octa 32GB WB IT V1.0A

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1. Affected Products

End of Life Product		Replacement Product	
Part Number	**Product Name**	**Part Number**	**Product Name**
00881000	Aquila AM69 Octa 32GB WB IT V1.0A	00881101	Aquila AM69 Octa 32GB WB IT V1.1B
		00881103	Aquila AM69 Octa 32GB WB IT V1.1D

2. Product Phase-in / Phase-out Schedule

End of Life Product		Replacement Product	
Part Number	**Estimated Schedule**	**Part Number**	**Estimated Schedule / Notes**
00881000	Product is EOL	00881101	Limited samples available in February 2026 (SwissBit eMMC, non-certified WiFi, version for evaluation and development only)
		00881103	Samples available in May 2026 based on the availability and roadmap of the WiFi certification (Kingston eMMC, certified WiFi)

Important Note: The current memory and NAND market may affect the availability of the mentioned Replacement Product versions. Please check our webshop or consult with your Toradex contact or shop team about the current availability situation.

3. Description of Changes

All replacement products contain the following changes

Change #1: Fixed Errata HAR-10963 – The series capacitors are missing on the USB_2_SS_TX lines

Description

- On V1.0A the USB_2_SS_TX lines lacked the required 100nF serial capacitors. These capacitors have been added to V1.1A

Customer impact

- Hardware: Customers with carrier boards that have been designed to be compatible with Aquila AM69 V1.0A and thus include 100nF serial capacitors on the USB_2_SS_TX lines should replace these capacitors with 0R resistors to ensure compatibility. This applies to customers currently using Aquila Development Board V1.2 where R461 and R462 resistors have been replaced by 100nF capacitors. We recommend removing these capacitors in future revisions of Aquila compatible carrier boards.
- Embedded Linux BSP: No impact expected
- Toradex Easy Installer: No impact expected
- Torizon: No impact expected

Change #2: Fixed Errata : HAR-10972 – VBUS input is not 5V tolerant

Description

- VBUS input was not 5V tolerant on Aquila AM69 V1.0A. This issue has been fixed

Customer impact

- Hardware: No impact expected. Customers who have a voltage divider on the carrier board for the USB_1_VBUS signal in order be compatible with Aquila AM69 V1.0A have the possibility to remove this voltage divider when using Aquila AM69 V1.1A
- Embedded Linux BSP: No impact expected
- Toradex Easy Installer: No impact expected
- Torizon: No impact expected

Change #3: Fixed Errata HAR-12387 – The (V1.0A) module does not comply with the Aquila Family Specification concerning the CTRL_RESET_MICO# signal

Description

- The Aquila AM69 (V1.0A) module does not properly comply with the CTRL_RESET_MICO# signal as defined in the Aquila Family Specification. As a result, carrier boards cannot reliably extend the reset period of the module, which may lead to undesired or premature boot behavior in some system designs. This has now been fixed in Aquila AM69 V1.1A

Customer impact

- Hardware: No impact expected
- Embedded Linux BSP: No impact expected
- Toradex Easy Installer: No impact expected
- Torizon: No impact expected

Change #4: Fixed Errata HAR-11637 – The 25MHz clock jitter is too high to pass the Ethernet Compliance

Description

- The onboard Ethernet interface on Aquila AM69 V1.0A does not meet Ethernet compliance due to high jitter from the 25MHz clock. This issue is resolved on Aquila AM69 V1.1A

Customer impact

- Hardware: No impact expected
- Embedded Linux BSP: No impact expected
- Toradex Easy Installer: No impact expected
- Torizon: No impact expected

Change #5: Added level shifters (1V8) to USB_x_OC# and USB_x_EN#
Description • The USB_x_OC# and USB_x_EN# signals were on 3V3 levels on Aquila AM69 V1.0A. This is not in-line with Aquila family specification. Level shifters were added to bring these signals to 1V8 levels Customer impact • Hardware: Customers are encouraged to take into account the Aquila family specification voltage levels for these signals and design with these levels in mind • Embedded Linux BSP: No impact expected • Toradex Easy Installer: No impact expected • Torizon: No impact expected

Replacement product version-specific changes compared to V1.0A

Part Number	eMMC	WiFi / BT module
	Qualified different eMMC vendors to increase supply chain resilience All are 128GB IT temperature range components	• Old WiFi/BT module on V1.0A was a Silex SX-PCEAX tri-band Wi-Fi 6E (802.11ax) WLAN module plus Bluetooth 5.2 BR/EDR/LE combo module based on Qualcomm's QCA2066 SoC • The new replacement versions use Silex SX-PCEBE is a tri-band Wi-Fi 7 /802.11 be WLAN module plus Bluetooth 5.3 BR/EDR/LE combo module based on Qualcomm's QCC2076 SoC. No software impact expected.
00881101 (V1.1B)	NEW SwissBit SFEM128GB2ED1TB-I-EF-121-STD	NEW, TEMPORARY Silex ES4-SX-PCEBE-SMT (Non-certified WiFi module, for evaluation and development only)
00881103 (V1.1D)	NO CHANGE Kingston EMMC128-IY29-5B101	NEW Silex SX-PCEBE (Certified WiFi module)

4. 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