Product Change Notification (PCN): Colibri iMX6 (non-WinCE) V1.1 to V1.2

Date of publication: Dec 12, 2025 (updated Jan 9, 2026 in Customer Impact/Software section)

Table of Contents

1. Affected Products

End of Life Product		Replacement Product	
Part Number	**Product Name**	**Part Number**	**Product Name**
00771100	Colibri iMX6S 256MB V1.1A	00771200	Colibri iMX6S 256MB V1.2A
00781100	Colibri iMX6S 256MB IT V1.1A	00781200	Colibri iMX6S 256MB IT V1.2A
00791100	Colibri iMX6DL 512MB V1.1A	00791200	Colibri iMX6DL 512MB V1.2A
00801100	Colibri iMX6DL 512MB IT V1.1A	00801200	Colibri iMX6DL 512MB IT V1.2A

2. Product Phase-in / Phase-out Schedule

End of Life Product		Replacement Product	
Part Number	**Estimated Schedule**	**Part Number**	**Estimated Schedule**
00771100	LTB (Last Time Buy): Jun 15, 2026 LTS (Last Time Ship): Dec 15, 2026 non-cancellable and non-returnable	00771200	Samples: January 2026 Volumes: Q2 2026
00781100		00781200	
00791100		00791200	
00801100		00801200	

Customers are strongly encouraged to convert their designs to the replacement parts listed above. Toradex also advises customers to carefully validate the new product version before their production release.

3. Description of Changes

Change #1: PCB Change
• PCB changed from V1.1 to V1.2

Change #2: Touch controller part number change
• Touch controller ST STMPE811QTR has been replaced with Analog Devices AD7879-1ACBZ-500R7

Change #3: ADC added
• Texas Instruments TLA2024IRUGR has been added to the board

4. Customer Impact

Hardware

- On V1.1, both the touch controller and ADC functions were handled by the ST STMPE811QTR. With the EOL of ST STMPE811QTR, these functions are now being handled on V1.2 by two ICs separately, being:
  - Touch Controller: Analog Devices AD7879-1ACBZ-500R7
  - ADC: Texas Instruments TLA2024IRUGR
- Voltage levels are not affected
- ADC specs are different between STMPE811QTR and TLA2024IRUGR
  - Toradex suggests that customers review the components' datasheets for more details. Below, a brief summary of the differences between the two:
  - Full Voltage Span
    - STMPE811QTR: 0-3.3V
    - TLA2024IRUGR: +/-4.096V
  - Gain
    - STMPE811QTR: 1
    - TLA2024IRUGR: 0.25/0.5/1/2/4/8
  - Resolution
    - STMPE811QTR: 12bit
    - TLA2024IRUGR: 12bit (11bit SE)
  - Vref
    - STMPE811QTR: VCC
    - TLA2024IRUGR: 2.048V
  - ext. Ref
    - STMPE811QTR: In2/In3
    - TLA2024IRUGR: no
  - Absolute input range
    - STMPE811QTR: VCC+0.2V
    - TLA2024IRUGR: VCC+0.3V
  - Sampling rate
    - STMPE811QTR: 180kS/s
    - TLA2024IRUGR: 3.3kS/s

Software

BSP

- The new version V1.2 is supported from:
  - BSP 6: 6.8.2 or later
  - BSP 7: 7.2.0 or later
- A new device tree is required for the new ADC and touch controller to function properly
- `UPDATED 2026-01-09` The ADC has been updated from the STMPE811QTR (SAR) to the TLA2024IRUGR (Delta-Sigma). While the digital communication interface remains compatible and supported by existing drivers, customers should review their application-specific software (and hardware) for impacts related to analog input scaling, reference voltage differences, and sampling rates, as these parameters may require adjustments to match previous performance.
  No digital interface SW impact is expected in case the following procedures are being followed:
  - ADC (Linux)
  - How to Use ADC on Torizon OS

Torizon

- The new version V1.2 is supported from:
  - Torizon OS 6: 6.8.2 or later
  - Torizon OS 7: 7.2.0 or later
  - Torizon Containers on tag 4
- Regarding device tree, please refer to BSP section above.
- If you use a Docker Compose file, please check the BSP section about userspace changes and update your cgroup rules and/or volume mount points and possibly applications using the ADC feature.

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