Temporary Product Introduction Notification (TPIN): Colibri iMX6 V1.1Z 2021-05-03 Rev.2

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1. Affected Product Numbers

Affected Products		Additional Substitution Version (temporary, with limited features)	
Part Number	Product Name	Part Number	Product Name
00141100	Colibri iMX6S 256MB V1.1A	00141125	Colibri iMX6S 256MB V1.1Z
00151100	Colibri iMX6DL 512MB V1.1A	00151125	Colibri iMX6DL 512MB V1.1Z
00161100	Colibri iMX6S 256MB IT V1.1A	00161125	Colibri iMX6S 256MB IT V1.1Z
00171100	Colibri iMX6DL 512MB IT V1.1A	00171125	Colibri iMX6DL 512MB IT V1.1Z

2. Product Phase in / Phase-out Schedule

Affected Products		Additional Substitution Version (temporary, with limited features)	
Part Number	Estimated Schedule	Part Number	Estimated Schedule
00141100	Product will continue under allocation with limited availability due to component shortage. Situation is expected to be resolved in Q4, 2021.	00141125	Product available upon request to increase availability
00151100		00151125	
00161100		00161125	
00171100		00171125	

Customers not requiring the resistive touch controller and/or ADC are strongly encouraged to use the additional substitution version. Toradex also advises customers to validate the new product version before their production release, we can provide a rework instruction or "Sample" of the additional substitution version.

3. Description of Changes

Change #1: STMPE811Q touch controller removed

- Removed STMPE811QTR touch controller and related components due to temporary component shortage

4. Customer Impact

Hardware

- 4-wire resistive touch functionality (Colibri pins 14, 16, 18, 20) won't be available in V1.1Z. No changes are required on the Colibri carrier board.
- Analogue input functionality (Colibri pins 2, 4, 6, 8) won't be available in V1.1Z. No changes are required on the Colibri carrier board.

Software

Customer software

We request customers to check their own software in detail to guarantee functionality on the new product version. For example, please check that no excessive warning or error logging is done in the background which might compromise system performance or flash storage lifetime.

Toradex Linux BSP

- The removal of the components listed in the table should not impact the functionality of software. A limited number of error messages may potentially appear on the console and in related log files.
  - Linux console demo: Colibri-iMX6_Console-Image 3.0b4.254 20200421

    Linux LXDE: Colibri-iMX6_LXDE-Image 2.8b7. 20200610

    Monthly release: 5.2.0-devel-202102+build.7

    Linux multimedia image, Linux multimedia image with upstream, Linux minimal image, Linux minimal image with upstream

    the boot sequence didn't register for both modules any problem (crashes , delays, getting stuck)

    touchscreen controller errors:

    ```
    stmpe-i2c 0-0041: failed to read regs 0x0: -6
    ```

  - errors from Toradex Easy Installer : Colibri-iMX6_ToradexEasyInstaller_1.8-20181019

    ```
    [0.137169] stmpe-i2c 1-0041: failed to read regs 0x0: -5
    [0.420783] imx_usb 2184000.usb: Can't register ci_hdrc
    platform device, err=-517
    [0.743337] snvs-secvio 20cc000.caam-snvs: can't get
    snvs clock
    ```

- Besides the additional errors/warning output, there is no impact on software apart from the fact, that the respective functionality of 4-wire touch and analogue inputs aren't available in software
- Modifying the device tree to reflect the HW change will remove the error messages. A dedicated page with more information can be found here: https://developer.toradex.com/knowledge-base/software-adjustments-for-colibri-apalis-imx6-v11z-modules
- The boot sequence does not register any problem (crashes, delays, getting stuck)

Toradex Windows CE BSP

- WinCE: No impact and no errors displayed. The WinCE BSP recognizes the absence of the ADC/Touch controller and unloads automatically.

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