

Product Change Notification (PCN): 0038 Colibri iMX8QXP 2GB WB IT V1.0B to 0038 Colibri iMX8QXP 2GB WB IT V1.0D

Date of publication: 28 Jul 2020

Table of Contents

- 1. Affected Product Numbers
- 2. Product Phase in / Phase-out Schedule
- 3. Description of Changes
 - Change #1: Key components
- 4. Customer Impact
 - Hardware
 - Software
- 5. Contact

1. Affected Product Numbers

End of Life Product		Replacement Product	
Part Number	Product Name	Part Number	Product Name
00381001	Colibri iMX8QXP 2GB WB IT V1.0B	00381003	Colibri iMX8QXP 2GB WB IT V1.0D

2. Product Phase in / Phase-out Schedule

End of Life Product		Replacement Product	
Part Number	Estimated Schedule	Part Number	Estimated Schedule
00381001	Early access product	00381003	Volume Candidates available in Q3, 2020

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, since the product is still in “Sample” product phase.

3. Description of Changes

Change #1: Key components

- Replaced SoC: PIMX8QX6AVLFZAB with MIMX8QX5CVLFZAC
- Replaced PMIC: MC33PF8100A0ES with MC34PF8100A0EP
- Replaced RAM: K4F6E304HB-MGCJ with MT53D512M32D2DS-046 IT:D
- Replaced eMMC: MTFC4GACAJCN-4M-IT with MTFC8GAKAJCN-4M IT

4. Customer Impact

Hardware

- The change from V1.0B to V1.0D of 0038 Colibri iMX8QXP 2GB WB IT doesn't have any effect on carrier boards and other related hardware
- eMMC capacity increased from 4GB to 8GB
- No HiFi 4 DSP feature
- SoC frequency change from 1.0 GHz to 1.2 GHz
- Improved ADC accuracy
- Fused PMIC (was strapped only before)
- Improved main crystal accuracy which improves Ethernet clock accuracy
- Optimized power rails for Wi-Fi module

Software

- 0038 Colibri iMX8QXP 2GB WB IT V1.0B it is still possible to build using OE-machine `colibri-imx8x-v10b`(optional) and RAMID has to be correct for V1.0B products from BSP 4.0 Zeus onwards (and including upcoming BSP 5.0 Dunfell). Stable BSP 3.0.4 supports it under the regular OE-machine `colibri-imx8x`. It was an Early Access product that may have limited support in the future
- 0038 Colibri iMX8QXP 2GB WB IT V1.0D is a Volume Candidate product for which Toradex will provide extended software support
- For the latest Linux BSP information, please refer to:
<https://developer.toradex.com/software/linux/linux-software/release-details>
- For the latest Toradex Easy Installer information, please refer to:
<https://developer.toradex.com/software/toradex-easy-installer/release-details>
- For the latest TorizonCore information, please refer to:
<https://developer.toradex.com/software/torizon/release-details>
- For more general Software information, please refer to:
<https://developer.toradex.com/software>

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