# Product Change Notification PCN.2015.03.30.1

Transition from

Colibri PXA270 312MHz V2.4**A** to Colibri PXA270 312MHz V2.4**C**
Colibri PXA270 520HMz V2.4**A** to Colibri PXA270 520HMz V2.4**C**

Date of Publication: 2015-03-30

## 1. Toradex Product Numbers Affected

| EOL Product | | Replacement Product | |
|---|---|---|---|
| Part Number | Product Name | Part Number | Product Name |
| 00082400 | Colibri PXA270 312MHz V2.4A | 00082402 | Colibri PXA270 312MHz V2.4C |
| 00092400 | Colibri PXA270 520MHz V2.4A | 00092402 | Colibri PXA270 520MHz V2.4C |

## 2. Product Phase in / Phase out Schedule

| EOL Product | | Replacement Product | |
|---|---|---|---|
| Part Number | Estimated Schedule | Part Number | Estimated Schedule |
| 00082400 00092400 | Product allocation. Supplies of the product are limited. | 00082402 00092402 | Sample/Volume Production: End of April 2015 |

## 3. Description of Changes

Colibri PXA270 312MHz V2.4A and Colibri PXA270 520MHz V2.4A both use an SDRAM manufactured by Fidelix. Triggered by a die shrink of that memory, Toradex did validate the new RAM device. Detailed tests in the temperature chamber revealed that the changed process geometries do require various changes with regard to the RAM timings.
In order to keep the changes for customers to an absolute minimum Toradex did evaluate an alternative RAM from Etron, which requires at most one single parameter to be adapted.

Toradex also validated a drop-in replacement for the Wolfson WM9715L audio codec. The Wolfson WM9712L is electrically and software-wise fully compatible to the WM9715L. Both Wolfson versions are released to be used on V2.4C modules.

## 4. Customer Impact

### 4.1. Hardware Design

The changes from V2.4A to V2.4C of the Colibri PXA270 modules do not have any effect neither on carrier boards nor on other related hardware.

### 4.2. Software

The RAM change from Fidelix to Etron has a minor effect on the software setup of the modules. The drive-strength of the RAM clock signal has to be lowered in order to work on any carrier board across the full temperature range specified.

When using Windows CE BSPs lowering the drive-strength can be done through a config block setting. Neither the bootloader nor the WinCE images have to be modified.

More information is available on our developer website including tools and instructions to do the setting change: http://developer.toradex.com/knowledge-base/colibri-pxa270-v2-4c-ram-drive-strength-settings

The release of the Wolfson WM9712L codec as a drop-in replacement doesn't need any change in 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.arm@toradex.com