Product Change Notification PCN.2010.12.21.1

Transition from
Colibri XScale® PXA310 624MHz V1.3a to Colibri XScale® PXA310 624MHz V1.3b

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1. Toradex Product Numbers Affected

Production Module EOL		Replacement	
Part Number	**Product Name**	**Part Number**	**Product Name**
00051300	Colibri XScale PXA310 624MHz V1.3a	00051301	Colibri XScale PXA310 624MHz V1.3b

2. Product Phase in / Phase out Schedule

Production Module EOL		Replacement	
Part Number	**Estimated Schedule**	**Part Number**	**Estimated Schedule**
00051300	**LTB (Last Time Buy):** **LTS (Last Time Ship):** Toradex will continue to sell existing inventory until the stock is depleted. Assuming current sales the stock will last until end of Q1 2011	00051301	**Samples Available:** End of January, 2011 **Volume Production:** Approximately beginning of Q2 2011

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

3. Description of Changes

From 00051300 to 00051301 (version 1.3a to 1.3b):

- Processor stepping from A2 to B1.

4. Customer Impact

4.1. Hardware Design

- The new PXA310 B1 stepping shows different behaviour regarding floating pins compared to the previous A2 stepping. For example, SODIMM pin 131 is used as USB_OC (over current detect) in the standard Toradex Windows CE images. If this input is left open (floating), then USB operates correctly with the A2 stepping (floating high), but will be disabled on the B1 stepping (the pin will float low, indicating a false over-current condition). All inputs are correctly managed in hardware on the Toradex Colibri Evaluation Board; customers should therefore evaluate the impact on custom carrier board designs where they differ from the evaluation board hardware implementation. To solve such floating problems the Toradex BSP provides SW workarounds. Please Contact colibri@toradex.com if you need any further information.

4.2. Software

- There is no impact on software except the stepping version change in the coprocessor ID register. This stepping information isn't required by most users.

5. Definitions

LTB: Last Time Buy

LTS: Last Time Ship

EOL: End Of Life