



## Product Change Notification Form

<b>PCN #:</b> LMI-PCN-070003	<b>Rev:</b> A	<b>Issue Date:</b>	<b>4-May-07</b>
<b>Type of Change:</b> Level 1		<b>Effective Date:</b>	<b>25-May-07</b>

### Reason for Change:

A new all metal layer revision of the LM3S301 (RevC2) was generated to correct RevC0 errata and include new design features

### Detailed Description of changes:

The following errata have been corrected in RevC2. Please see Luminary Micro document *LM3S301 Errata for C0*.

- Errata 1.6 Brown-Out-Reset (BOR) state unknown after initial brown out condition.  
The BOR state is now properly reflected in the Reset Cause (RESC) register.
- Errata 1.7 Brown-Out-Reset (BOR) does not work when the PLL is enabled to drive the system clock
- Errata 1.8 Software Reset does not work when the PLL is enabled to drive the system clock
- Errata 1.9 Device is non-functional when VDD drops below LDO voltage setting +500 mV
- Errata 2.1 GPIO internal pull-up resistor does not pull up to 3.3 V
- Errata 2.2 PB6, PC5, and PC6 are not 5-V tolerant
- Errata 3.1 JTAG interface is held in reset if TRST is configured as a GPIO
- Errata 3.2 Serial Wire Debug (SWD) interface is held in reset if TRST is configured as a GPIO
- Errata 5.1 Watchdog Timer reset does not work when the PLL is enabled to drive the system clock

There are two new features included in the new RevC2 version of Stellaris:

- New feature 1.0 - Power on reset (POR) state is held asserted when in a brown-out condition. The internal reset circuit of the device holds the device in reset until the brown-out condition is eliminated.
- New feature 2.0 - Enhanced code protection. See the data sheet for information on code protection features for this Stellaris® family microcontroller.

### Products Affected:

Old Part Number	Description	Qualification P/N	New Part Number
LM3S301-IQN20-C0	Microcontroller	N/A	LM3S301-IQN20-C2

### Forecasted Key Milestones:

Milestone	Date
Samples Available	4-May-07
Qualification Report Available	4-May-07
Production Release	4-May-07

(\*) The date of "First Availability of Post-Conversion Product" is determined by the projected depletion of inventory at the time of the PCN publication. The depletion of inventory may be impacted by fluctuating supply and demand; therefore, although customers should be prepared to receive the Post-Converted products on this date, we will continue to ship the pre-converted products until the inventory has been depleted.

### Recommended Action: Accept PCN

### Reference Documents / Attachments: N/A

Should you have any issues with the timeline or content of this change, please contact the representative listed below within 10 days. No response will be deemed as customer's acceptance of the change and the change will be implemented pursuant to the key milestones set forth in this PCN.

**For questions, concerns, or comments please direct all correspondence to: [customer.service@luminarymicro.com](mailto:customer.service@luminarymicro.com)**

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