Product Change Notification

106293 - 00

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Product Change Notification

Change Notification #: **106293 - 00**

Change Title: **Intel NetStructure® MPCBL0030S03Q Single Board Computer, PCN 106293-00, Product Design, Rework changes as noted**

Date of Publication: **May 05, 2006**

Key Characteristics of the Change:

Product Rework

Forecasted Key Milestones:

Date Customer Must be Ready to Receive Post-Conversion Material:	May 05, 2006

Description of Change to the Customer:

1. Change Capacitors to obtain a larger voltage derating

Perform changes to all BOM configurations denoted for derated capacitor corrections as noted in Table 1 and Figure 1.

Location	Remove	Replace with	Reason
C3, C7, C24, C26	Murata: GRM21BR60J106K at 6.3Vdc	Murata: GRM21BR61E475KA12L at 25Vdc	Change from 6.3V rated to 25Vdc rated Ceramic-X5R dielectric capacitor
C6, C9, C17, C18	Panasonic: ECJ1VB0J105K at 6.3V dc	Murata: GRM188R61E105KA12D at 25Vdc	Change from 6.3V rated to 25Vdc rated Ceramic-X7R dielectric capacitor
C290	AVX Kyoura: TAJD476K016R at 16Vdc	KEMET T491D476K025AS at 25Vdc	Change from 16Vdc to 25Vdc rated Tantalum - conductive polymer capacitor

2. Updates to resistors and capaitors for power sequencing issues.

The following changes will improve power on sequence and reduce incidence of “M1 Related” or “Power Unit Failure” reports, as noted in Table 2, and shown in Figure 1.

C265	.047UF capacitor		Unpopulate capacitor
R364	0 Ohm		Unpopulate Resistor
R3	10K	681K	Change resistor value

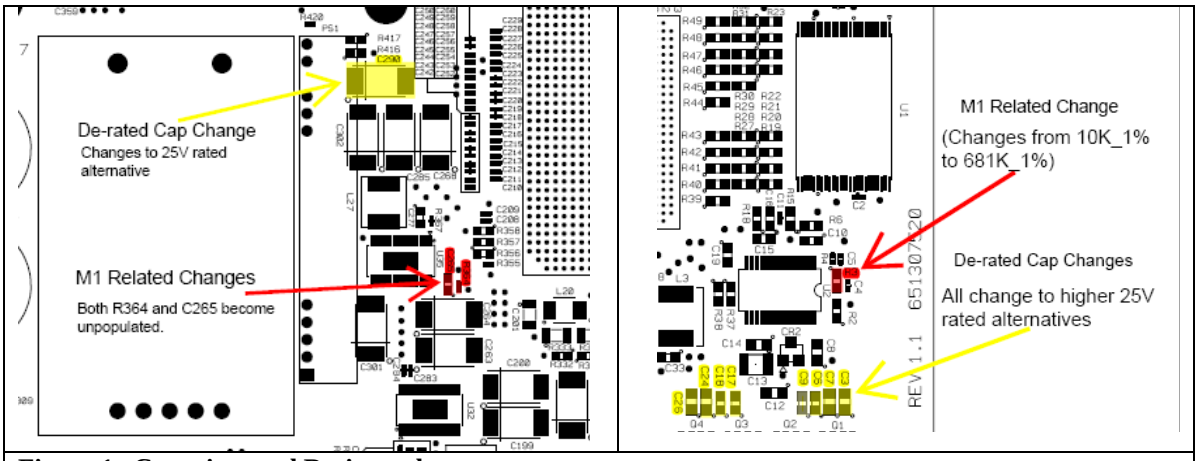

Figure 1. Capacitor and Resistor changes.

3. Update IPMC Firmware

Update firmware revision to 1.3.1

Changes to the IPMC Firmware releases with full release notes can be found at the following link:

http://www.intel.com/design/telecom/products/cbp/atca/9635/tools.htm

4. FPGA Update:

FPGA version B.005 contains:

- Change to incorporate recommendatons of 6300ESB errata relating to power sequencing
- Fix to ThermTrip logging (deciphers b/w CPU0 and CPU1).
- CMOS revision reporting.

5. Update label

Update Product Code Label to add “R” after Top Assembly number (TA#) to indicate board was reworked.

Customer Impact of Change and Recommended Action:

Customer should perform validation on the new releases.

Products Affected / Intel Ordering Codes:

Board Products Table

Affected Product Code	Pre-Change MM#	Post-Change MM#	Pre-Change TA or AA	Post-Change TA or AA	Pre-Change PBA	Post-Change PBA
MPCBL0030S03Q	880384	880384	D49233-001	D49233-001R		
MPCBL0030S03Q	880384	880384	D49233-002	D49233-002R		
MPCBL0030S03Q	880384	880384	D49233-003	D49233-003R		

Reference Documents / Attachments:

Document: **Location #:**

PCN Revision History:

Date of Revision:	Revision Number:	Reason:
May 5, 2006	00	Originally Published PCN