



Product Change Notification

106439 - 01

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Product Change Notification

Change Notification #: 106439 - 01
Change Title: Intel NetStructure® MPCBL0030 Single Board Computer, PCN 106439-01, Product Design, Changes to: LED Brightness, resistors, capacitors, BIOS, IPMC Firmware, and FPGA.
Reason for Revision: Remove modification to Red LED

Date of Publication: June 27, 2006

Key Characteristics of the Change:

Product Design

Forecasted Key Milestones:

Date Customer Must be Ready to Receive Post-Conversion Material:	Jul 21, 2006
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Description of Change to the Customer:

1. Change resistors to improve LED illumination

Perform changes denoted for de-rated capacitor corrections as noted in Table 1 and Figure 1.

Table 1

Location	Remove	Replace with	Reason
R725, R736	330 Ohm Resistor	88.7 Ohm Resistor	Improve LED illumination

2. Updates to resistors and capacitors 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.

Table 2

Location	Add Resistor	Reason
R56	301K	Enable Auto-Retry

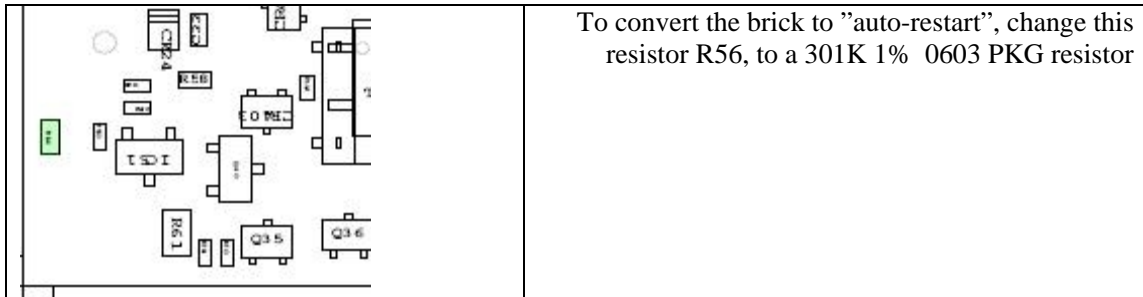


Figure 1. Capacitor and Resistor changes.

3. Firmware (BIOS, IPMC, FPGA, FRU) changes as follow:

MPCBL0030 - BIOS from P.03 to P.04
IPMC Firmware from 1.3.1 to 1.6.5
FPGA from B.005 to B.006

Changes to the BIOS and 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>

FPGA Update:

FPGA version B.006 contains:

- Fault Resilient Booting (FRB) – Set of Bios and IPMC algorithms which enable hardware support to allow a multiprocessor system to boot in case of failure of the bootstrap processor (BSP) under certain conditions.

BIOS Update:

BIOS version P.04 contains

- Fault Resilient Booting (FRB) – Set of Bios and IPMC algorithms which enable hardware support to allow a multiprocessor system to boot in case of failure of the bootstrap processor (BSP) under certain conditions
- Boot Device list increased from a limit of 8 devices to a total of 12 boot devices

Customer Impact of Change and Recommended Action:

No Customer Impact

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
MPCBL0030	874545	874545	D26196-004	D26196-005	D26190-201	D26190-202

Reference Documents / Attachments:

Document:

Location #:

PCN Revision History:

Date of Revision:

Revision Number:

Reason:

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Originally Published PCN

June 30, 2006

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Remove modification to Red LED