

Product Change Notice – PCN_DIMM-MX6-4_R4B

Rev	Date/Signature	Changes
1	25.02.2014/Sr	First Revision
2	01.04.2014/Sr	Correction of customer impact of change 2

1 Product affected

Product affected	Rev.	Replacement	Rev.
DIMM-MX6Q-2-1G-2G	R2	DIMM-MX6Q-4-1G-2G	R4B
DIMM-MX6Q-2-1G-2G-ET	R2	DIMM-MX6Q-4-1G-2G-ET	R4B
DIMM-MX6D-2-1G-2G-ET	R2	DIMM-MX6D-4-1G-2G-ET	R4B
DIMM-MX6S-2-1G-2G-ET	R2	DIMM-MX6S-4-1G-2G-ET	R4B

2 Change 1 – NAND-Flash Controller

2.1 Key Characteristics of the Change

Additional Capacitor C183 added and firmware update.

2.2 Description of Change to the Customer

To improve the EMC performance of the module an additional capacitor C183 was added to the reset signal of the Hyperstone S6 NAND-Flash controller.

Also the firmware of the NAND-Flash controller is updated to optimize clock settings.

2.3 Customer Impact of Change and Recommended Action

No actions necessary.

3 Change 1 – Voltage Regulators

3.1 Key Characteristics of the Change

Exchange of the PMIC and 5V regulator.

3.2 Description of Change to the Customer

The PMIC, which generates most of voltages, is replaced by DA9063 from Dialog Semiconductors. For this reason, a new regulator for the 5V USB core voltage was added.

3.3 Customer Impact of Change and Recommended Action

Customers need to update the operating system and the bootloader to the newest version to support the new PMIC. More information at support.emtrion.com.

4 Change 1 – EMC Improvements

4.1 Key Characteristics of the Change

Some capacitors are added to improve EMC performance.

4.2 Description of Change to the Customer

A few bypass capacitors were added as a precaution to improve the EMC performance.

4.3 Customer Impact of Change and Recommended Action

No actions necessary.

5 Change 1 – RS232 Transceiver

5.1 Key Characteristics of the Change

Diodes added to avoid unintended back feeding.

5.2 Description of Change to the Customer

In some situations a back feeding through the RS232 transceiver was possible. For this reason, diodes were added in the UART2_RXD# and UART2_CTS# signals.

5.3 Customer Impact of Change and Recommended Action

No actions necessary.