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## Product Change Notification

**PCN No: 2007-02-20-01**

**Report Date: February 20, 2007**

**Subject: Alphanumeric New Firmware Version Release**

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### List of New / Changed Products:

All the following Alphanumeric displays (and their variants):

MOI Series	LCD0821	
LCD2041	LK162-12	LK202-25
LK204-25	LK402-25	LK404-25
VK162-12	VK202-25	VK204-25

### Reason for Change:

A couple of firmware bug fixes and I2C implementation enhancement are incorporated in the existing firmware resulting to a firmware upgrade.

### Product Change:

The following list of firmware changes are all effective on all the variants of the alphanumeric displays as stated under 'List of New / Changed Products'.

### Firmware Changes:

Display	New Firmware Version
MOS Series	v5.4
X-Board	v5.4
LCD0821	v5.8
LCD2041	v5.8
VFD2041	v5.8

LK162-12	v5.4
VK162-12	v5.4
LK202-25	v5.9
VK202-25	v5.8
LK204-25	v5.8
VK204-25	v5.8
LK402-25	v5.3
LK404-25	v5.4

**New Released Firmware (released February 20, 2007):**

- 1) In I2C, when a keypad key is pressed, two of the same values are read; the suggested fix for this before was to clear the key buffer every after read. There is no need for clearing the key buffer anymore, this bug is fixed.
- 2) In I2C, the module had problematic NAK acknowledgments; there were instances that the modules continue to ACK when the buffer is full. This bug is now fixed.

**Contact Information:**

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**Reference Documents/Attachments:**

Location: <http://www.matrixorbital.ca/manuals/>

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