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## Product Change Notification

**PCN No: 2007-12-11-01**

**Report Date: December 11, 2007**

**Subject: Serial (I<sup>2</sup>C Capable) Alphanumeric and Graphic displays  
New Firmware Version Release**

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### List of New / Changed Products:

All the following displays (and their variants):

<b>Alphanumeric Displays</b>		
MOS / MOI Series	X-Board S / I Series	LCD0821
LCD2041	LK162-12	LK202-25
LK204-25	LK402-25	LK404-25
VK162-12	VK202-25	VK204-25
<b>Graphic Displays</b>		
GLK12232-25-SM PCB Rev 2.0	GLC24064	GLK24064-25
GLK240128-25	GLK24064-16-1U	GLK19264-7T-1U
Variants:		
-V, -VPT, -E, and all colours		

### Reason for Change:

A firmware upgrade has been implemented to fix a firmware issue on I<sup>2</sup>C implementation of the displays.

**Product Change:**

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

**Firmware Changes:**

Display	New Firmware Version
<b>Alphanumeric Displays</b>	
MOS Series, MOI Series	v5.7
X-Board S, X-Board I	v5.7
LCD0821	v6.0
LCD2041	v6.0
VFD2041	v6.0
LK162-12	v5.6
VK162-12	v5.6
LK202-25	v6.1
VK202-25	v6.0
LK204-25	v6.0
VK204-25	v6.0
LK402-25	v5.5
LK404-25	v5.6
<b>Graphic Displays</b>	
GLK12232-25-SM PCB Rev 2.0	v5.9
GLC24064 / GLK24064-25	v5.7
GLK240128-25	v5.7
GLK24064-16-1U	v5.8
GLK19264-7T-1U	v5.9

**Schedule of Change:**

December 11, 2007

**New Released Firmware (released Dec 11, 2007):**

- 1) In I<sup>2</sup>C, when the display NAKs (not acknowledge) a byte because its data buffer is full, the host is expected to re-send the byte that was NAK'd. What has been found is that some of the NAK'd bytes actually get into the data buffer, when it is NOT supposed to.

## **Documentation Revision**

Revision	Changes	Date	Author
1.0	Initial Release	December 11/07	R Malinis

## **Contact Information:**

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## **Reference Documents/Attachments:**

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

## **Approvals:**

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