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## Product Change Notification

**PCN No: 2009-03-25-01**

**Report Date: March 25, 2009**

**Subject: Graphic Displays Firmware Update**

### List of New / Changed Products:

All the following displays (and their variants):

<b>Graphic Displays</b>		
GLK12232-25-SM	GLC24064	GLK19264-7T-1U
GLK12232-25-FGW	GLK24064-25	GLK19264-7T-1U-USB
	GLK24064-16-1U	GLK240128-25
Variants:		
-V, -VPT, -E, and all colours	With latest PCB Revision	

### Reason for Change:

Several firmware enhancements including Xmodem based file system upload protocol and some bug fixes.

**Product Change:**

1. Xmodem based implementation of file system upload is added to provide as an alternative protocol of uploading the file system to the graphic displays. Details on this protocol implementation will be added on revised manuals for the displays listed above
2. Addition of minimal delay of approximately 50us is added to each keypad read cycle to accommodate custom keypads of increased resistance (PCN 20080722-01 to 03)
3. Scroll is problematic at x=0 location on SED1530 based displays, ie. GLK12232-25-SM and GLK12232-25-FGW. This has now been fixed.
4. File Download Command 254 / 178 is problematic when replying to the host. This has now been fixed.

**Firmware Changes:**

Display	New Firmware Version
GLK12232-25-SM	v6.1
GLK12232-25-FGW	v6.1
GLC24064 / GLK24064-25	v6.0
GLK240128-25	v6.0
GLK24064-16-1U	v5.9
GLK19264-7T-1U/-USB	v6.0

**Schedule of Change:**

April 1, 2009

## Documentation Revision

Revision	Changes	Date	Author
1.0	Initial Release	March 25 /09	R Malinis

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## Reference Documents/Attachments:

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

## Approvals:

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