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## Product Change Notification

**PCN No: 2010-03-03-02**

**Report Date: March 3, 2010**

**Subject: LK204-25 New PCB Rev 3.0 Release  
LK204-25-USB New PCB Rev 3.0 Release**

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### List of New Products:

LK204-25 PCB Rev 3.0 (update of the LK204-25 PCB Rev 2.0)
LK204-25-USB PCB Rev 3.0 (update of the LK204-25-USB PCB Rev 1.0B1)
LK204-25-422

### Reason for Change:

The LK204-25 Matrix Orbital graphic module series have been updated to be able to unify display modules and offer new features and benefits. The LK204-25 PCB Rev 2.0 and the LK204-25-USB PCB Rev 1.0B1 have been integrated into single PCB to reduce inventory turn over.

### Product Change:

The following hardware and firmware changes are all effective on all the variants of the LK204-25 as stated under 'List of New Products'. The old LK204-25 PCB Rev 2.0 and LK204-25-USB PCB Rev 1.0B1 are now superseded by single PCB Rev 3.0, and the old firmware version v5.6 is now superseded by v7.0. The changes are stated to compare the old and the new PCB revisions.

### Schedule of Change:

September 1, 2010

### **Hardware Changes:**

- 1) The 'Protocol Select Jumpers' have been expanded to include provisions for the -USB and -422 models of the LK204-25 PCB Rev 3.0
- 2) An optional serial header (the connector is populated only upon request) is added on PCB Rev 3.0
- 3) A single Dallas 1-Wire connection is now offered as an option on PCB Rev 3.0
- 4) Better ESD protection is offered on PCB Rev 3.0 through optional ground jumps

### **Firmware Changes:**

#### **Release v7.0 (released February 15, 2010):**

- 1) For I2C implementation only - the LK204-25 now temporarily disconnects itself from the I2C bus when it is busy processing data or when the display's buffer is full
- 2) Added Dallas 1-wire support
- 3) List of New (or Changed) Commands:

#### **Dallas 1-Wire Related Commands:**

- 200 / 1: Search for Devices - new command, as described in item # 4
- 200 / 2: 1-Wire Transaction - new command, as described in item # 4

Please refer to

[http://www.matrixorbital.ca/manuals/LK\\_series/LK204-25/](http://www.matrixorbital.ca/manuals/LK_series/LK204-25/)  
for the LK204-25 PCB 3.0 manual.

## Documentation Revision

Revision	Changes	Date	Author
1.0	Initial Release	April 28/10	R Malinis

## Contact Information:

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## Reference Documents/Attachments:

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

## Approvals:

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