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## Product Change Notification

**PCN No: 2006-08-16-05**

**Report Date: August 16, 2006**

**Subject: MOS-AP202 PCB 2.1 New Board Revision Release**

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### **List of New Products:**

MOS-AP202 PCB 2.1

### **Reason for Change:**

The MOS-AP202 Matrix Orbital module series have been upgraded to offer more stability under different temperature conditions.

### **Product Change:**

The following list of hardware and firmware changes are all effective on all the variants of the MOS-AP202 as stated under 'List of New Products'. The old PCB 2.0 is now superseded by PCB 2.1, and the old firmware version v5.1 is now superseded by v5.2. The changes are stated to compare the old and the new PCB revisions.

### **Hardware Changes:**

- 1) Addition of components on the board.
- 2) Physical layout differences but electrically the same connections.
- 3) Physical placement of connectors are exactly the same as PCB 2.0

## **Firmware Changes:**

### **Release v5.2 (released August 16, 2006):**

- 1) Control character 0x0A can now be implemented as the old modules (before PCB 2.0) and as well as the true implementation of 0x0A (new line).

The old implementation of 0x0A before PCB rev 2.0 is as follows: when the display is at the last row, sending character 0x0A will make only put the next text insertion point at the home position (column 1, row 1). This effectively is like sending the Go Home command (cmd 72). The implementation of 0x0A in PCB 2.0 firmware 5.1: when the display is at the last row, sending character 0x0A will scroll the display up and create a new line. Both the old and new implementation can now be achieved by turning the scroll on or off (cmds 81 and 82). When scrolling is off, the old implementation will be followed, otherwise, the display will scroll the display up and create a new line.

Please see the manual for in depth details.

**Contact Information:**

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**Reference Documents/Attachments:**

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

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