

# AIO-16 Upgrade

10-5-05

AIO16 upgrade procedure.doc

(single frame ADAM intercom)

Altera 4.1

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## Upgrade Procedure

1. Be certain ADAM frame is a Rev D frame.  
This can be found inside on the right hand edge of the back plane mother board (behind the controller cards).
2. Install AZedit ver 2.08.01.
3. **Save “on line” config file to disk.** as the procedure in Step 5 & 6 **will perform a 1<sup>st</sup> birthday** on the system, meaning **ALL** existing configuration **WILL BE ERASED**.

**DO NOT install AIO-16’s yet.** . . . Master Controllers **must be upgraded** before the AIO-16’s are recognized. They also must Altera v 4.1.

## **Upgrade AIO Cards**

4. **Very Important ! Upgrade AIO cards FIRST to ver 10.3.4. (½ the frame at a time).**
  - A. Copy the AIO firmware combined Hex file into a “temp” directory.
  - B. Open AZedit and ensure that you are **ONLINE** as indicated in the Mode Pane in the lower right hand corner of the AZedit screen. If **FILE** is displayed, **check on communications settings (com port & baud rate) before proceeding.** The little plug icon in the icon bar at the top of the screen should be black when ready to go on line. Click on it and you should see “**ONLINE**” appear at bottom right screen.
  - C. Select **Status** from the pop downs along the top of the screen.
  - D. Select **Software Versions.**
  - E. Select **AIO Cards.**
  - F. It should show the current version of AIO firmware installed.
  - G. Highlight ½ the AIO cards and right click the mouse.
  - H. A dialogue box named **Firmware Download** will appear.
  - I. Select the download file **??-?.Hex** and click “**OK**”.
  - J. You now should have a dialogue box named **Download Device Firmware.**
  - K. Select **Begin Download.**
  - L. The download bar should show the “%” of download in progress. This takes a few minutes.
  - M. Confirm that the first half of AIO’s are now the new version. (see steps D-F to repeat or second half of cards)

## **Upgrade Master Controllers**

5. Upgrade Master Controllers (one at a time), in the same manner as above instead of selection AIO cards select Master controllers to ver 9.24.1.
6. If you have two Master Controllers, remove the standby controller card (upper-most red LED #23 will be off).

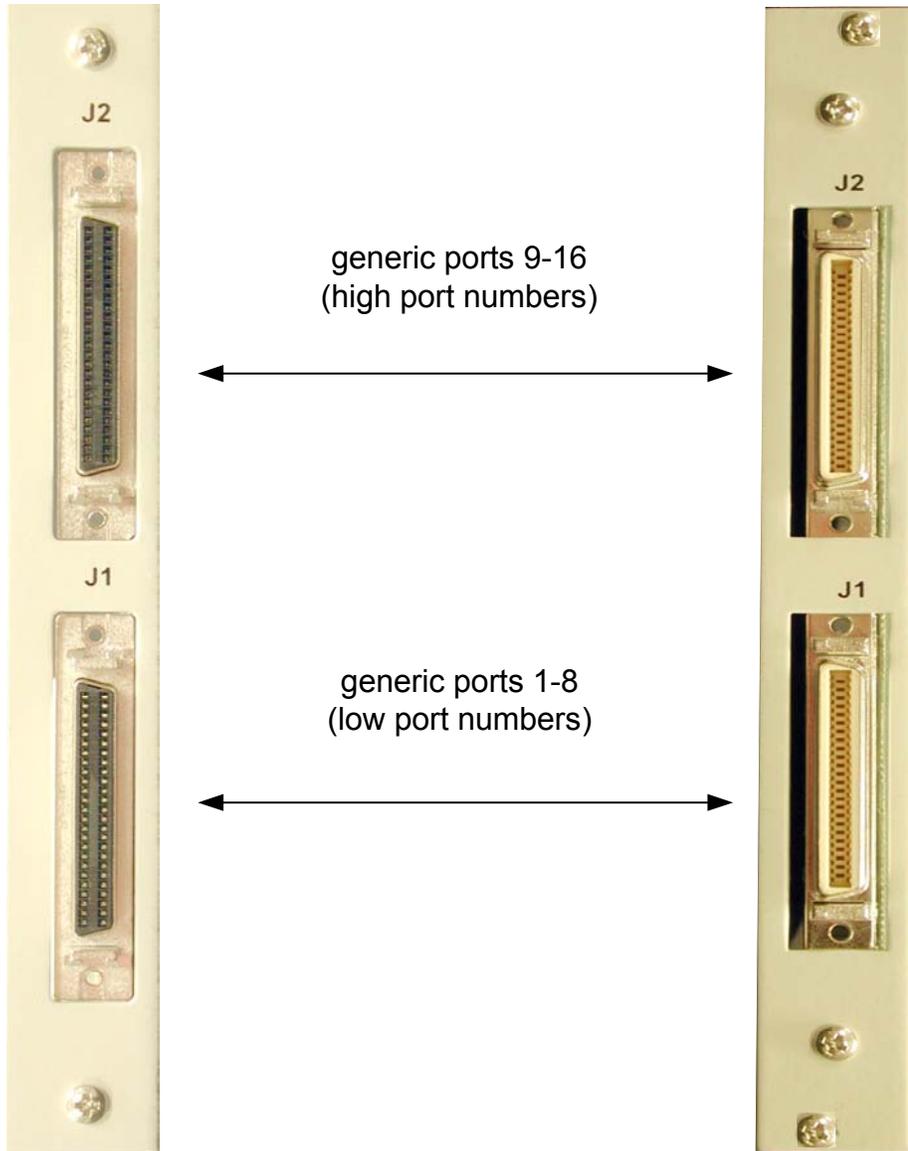
7. When this is complete the system may reset.
8. Wait a minute or two and re-connect AZedit.
9. remove the updated controller card, insert the standby card, and repeat steps D-M.
10. **After** firmware upgrades are completed and verified, re-size your system in AZedit to 160 x 160 (providing for 3 future AIO-16's) from the "Options" menu under "Configuration", "Intercom Sizing Wizard". This will, again, cause another 1<sup>st</sup> birthday.
11. Re-load the previously saved config file from Step 3 and confirm all status and setup in AZedit.

### **Installing AIO-16 cards**

12. Remove existing AIO-8's & back cards into the appropriate frame slots & gently install AIO-16 front cards into the appropriate ADAM card slot.
13. The following procedure is **very important** to prevent bent pins in the high-density connectors on the frame backplane and AIO-16 Cards.
14. **Lightly** tighten down the AIO-16 card.
15. Carefully attach the AIO-16 backcard (MDR or SCSI) to the AIO-16 card from the back of the ADAM. Verify that it is properly seated against the AIO-16 card and it is firmly sitting in the system.
16. Tighten the backcard to the frame.
17. Fully tighten down the AIO-16 from the front of the frame.
18. See AIO-16 User Manual, page 9 for more details.
19. Upgrade AIO-16's to ver 1.0.0, if not already at that version.
20. Check port & AIO status in AZedit.
21. Ports on AIO-16's (frame slots 1,2, & 3) will be 1 - 24 (lower SCSI) & 137 - 160 (upper SCSI).

**Note:** We **DO NOT** recommend & do not support using any more than 3 AIO-16 cards without upgrading frame power supplies to PS-ADAM-16's ( high current model ).

# RTS ADAM AIO16 Back Card Connector Layout



SCSI Connectors

MDR Connectors



