DBX Multiple ADAMedit / CSedit Sessions Overview

dbx multi adamedit.doc 7-12-2000

An ADAM Intercom System can communicate with up to 3 separate ADAMedit sessions, all running on separate computers. Multiple sessions are not supported for ADAM CS or Zeus. To use this feature, you must configure the Advanced communications settings on the computer running the primary ADAMedit session. This is the computer connected to J1 of the XCP-ADAM-MC Master Controller Breakout Panel. Second and third computers can then be connected to J9 and J10 of the Master Controller Breakout Panel as explained below.

If you are running CSedit and ADAMedit together, it is best to have ADAMedit on J1. This is because the J1 port has to be used to configure J9 and J10 (baud rate, which ports are enabled, and what protocols are supported), and only ADAMedit supports this (i.e. CSedit does not have the capability of doing this configuration). Once the primary ADAMedit has been configured, each ADAMedit port may be operated independently from one another.

The standard ADAMedit connection is via J1 of the ADAM breakout panel supporting baud rates of 9600 and 38.4K (selected via DIP switch 1-1 on each MC). The auxiliary ports also support 19.2K (configured by the ADAMedit session connected to J1).

There are limitations on the baud rates of the auxiliary ports.

In SBX and single frame ADAM intercoms, a baud rate of 38.4K for the auxiliary ports will usually work, but communications errors will occasionally cause ADAMedit to be bumped off-line. A baud rate of 19.2K is recommended for these ports.

In DBX intercoms, communications errors will occur on J9 and J10, even at 9600 baud. However, J7 and J8 can be used in place of J9 and J10, by closing DIP switch 1 position 6 on both peripheral controller cards (frame 1). These ports have FIFO buffers built into them, which significantly reduces the number of communications errors. However, communications errors can still occur if multiple ADAMedit sessions are active, which can cause ADAMedit to go off-line.

Note that J7 and J8 are RS-485 ports and require an external converter (e.g. a Telebyte model 285M or 365M) to connect each of these ports to a computer's RS-232 serial port.

The following is a procedure for setting up ADAMedit communications with up to three separate computers in a DBX system.

PROCEDURE: (see figures 1 & 2, ADAMedit Screen Views)

Minimum Software Requirements:

ADAMedit = 1.07.06
Peripheral Controller (PC) = 10.2.x
DBX (U21, U22) = 1.1.1, Altera 1.1
AIO = 10.0.2

- Set dip switch S1-1 for each of the two PC cards in frame 1 to select desired baud rate for primary ADAMedit. (off=9600, on=38.4k)
- Set dip switch S1-6 to "on" for each PC card in frame 1 to enable ports J7 & J8 ADAMedit support.
- Run ADAMedit and go on-line.
- Select "OPTIONS"
- Select "COMMUNICATIONS"
- Select "ADVANCED" – (must be connected to matrix to see this screen)
- Then Communication screen, Secondary ADAMedit Sessions J9/J10
- Advanced Settings (ADAM Only)

Remember, operationally J9 becomes J7 & J10 becomes J8 when PC dip switch S1-6 is "on". ADAMedit will not change these port screen designations

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Baud Rate: Select the highest baud rate that will work correctly. Unlike the baud rate setting for the primary ADAMedit session, which is set by a master controller DIP switch, the baud rates for second and third computers are set in software, and there are no DIP switches for this.

This configuration information is stored in configuration flash, (U3/U5), so the intercom will remember it. However, if the intercom loses its config flash for any reason (e.g. it gets a 1st birthday, perhaps because a new version of firmware is downloaded to it), it will come up with J9 and J10 disabled by default.

ADAMedit Screen Views

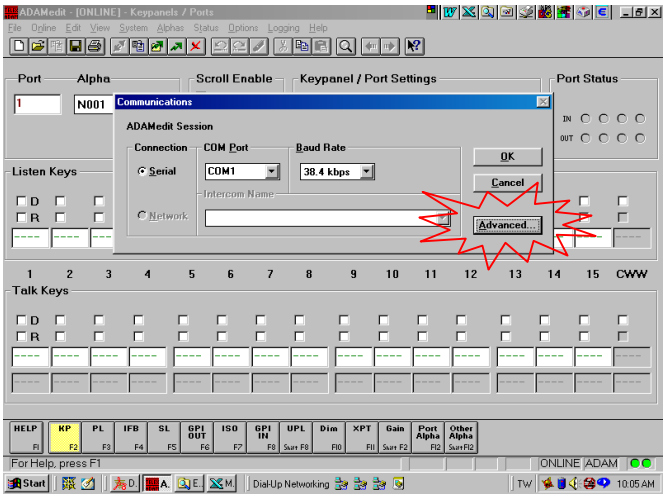


Figure 1

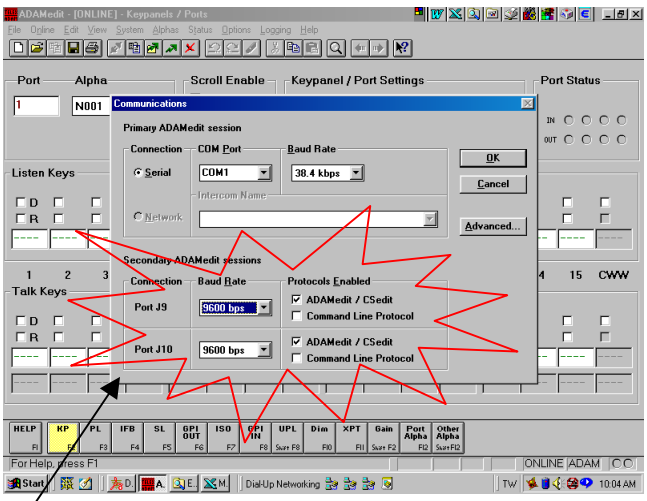
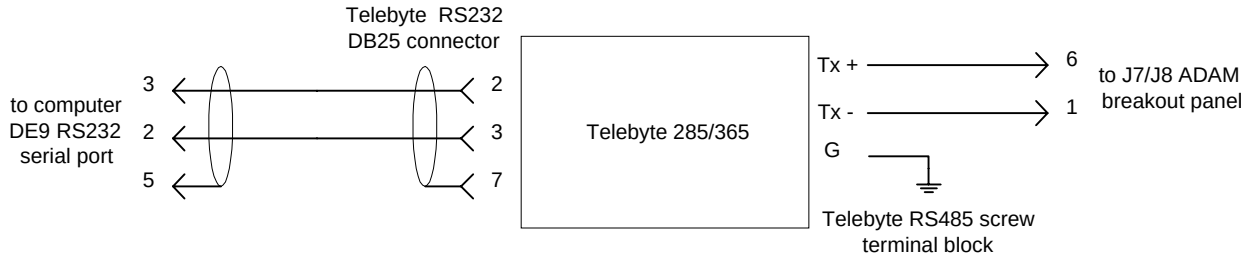


Figure 2

J9 & J10 are in reality J7 & J8 on ADAM controller breakout panel



Set dip switches as follows:
Switches 1, 3 & 4 “on”
Switches 2, & 5 “off”

Telebyte Interconnect