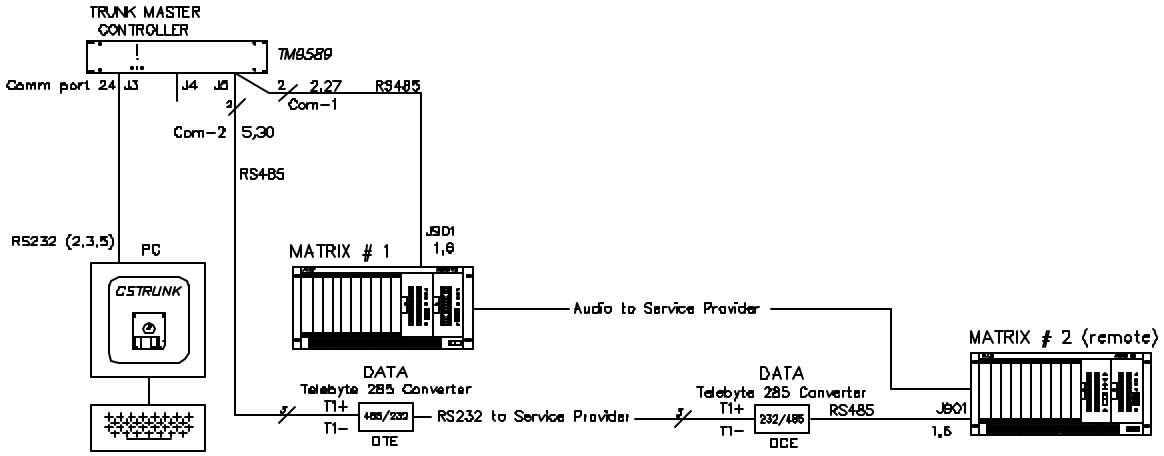
ADAM-CS Remote Trunking Setup Procedure

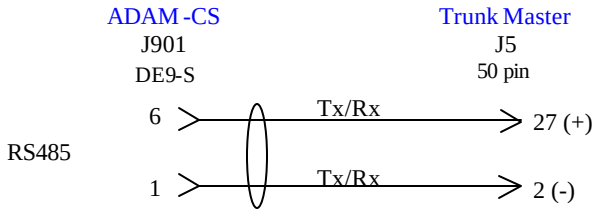
by: Shawn Anderson & Gene Behrend 1/3/01



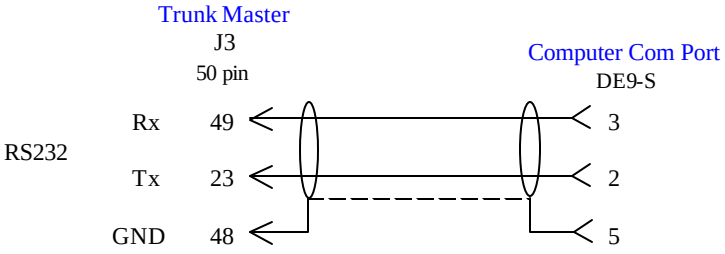
Simplified System Block Diagram

MAIN SITE :

Trunk connection for the ADAM-CS is J901 on the rear of the intercom frame. Connect to the Trunk Master RS485 Com-1 as follows:



For the PC (computer) to run CStrunk Edit, an RS232 cable must be provided as shown below.



If communications with Trunk Master cannot be established, pins 2 & 3 may have to be reversed on the computer com port end.

Install a shorting plug into J7 on the rear panel of the Trunk Master. Pins 1 and 6 of a DE9-P connector must be shorted together for the Trunk Master to operate.

Next connect the Trunk Master with CStrunk Edit . NOTE: This is a DOS program and you must exit Windows in order to run CStrunk Edit.

Naming the Intercoms:

Once connected, go to the menu named INTERCOMS then NAMES. Give the 2 intercoms each their own 4 character name such as "MAIN" and "REM1". Enter these under ICM 1 ("MAIN") and ICM 2 ("REM1") in the window. Press "Esc" twice to return to the main menu.

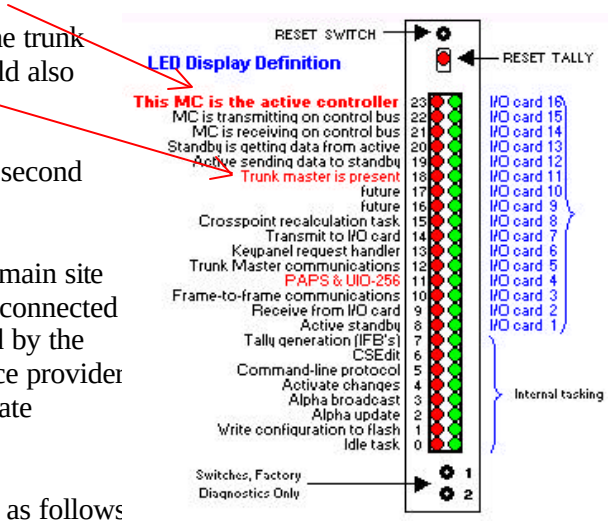
Assigning Intercom ports to the Trunk Master:

Select the INTERCOMS menu again then select SETUP.

Position the cursor in the baud column for ICM 1 and use the space bar to select a baud rate of 38.4 k. Position the cursor in the baud column again for ICM 2 and use the space bar to select a baud rate of 9.6k. Press "Esc" twice to return to the main menu.

Now select the MASTER menu and select "SET all Changes Flags", then go to the MASTER menu again and select "SEND CHANGES".

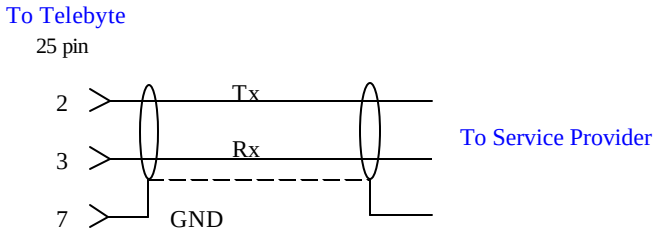
After this is done you should be able to view the first frame is OK and CUR (current). The top red LED should be on for the active controller card (2 right most cards) When the frame logs into the trunk master the sixth red LED from the top (#18) should also light.



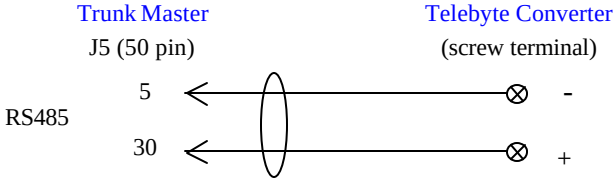
The connection between the trunk master and the second frame is as follows.

Start with installing the Telebyte converter at the main site for the remote frame . The Telebyte converter is connected to the interface for the leased data circuit provided by the Service Provider. Pin-out to be provided by service provider The data circuit must be able to pass 9.6 K baud rate minimum.

The pin-out for the Telebyte RS232 connection is as follows



The connection between the Telebyte and the Trunk Master Com-2 is shown below.



This will make the connection for COM-2 of the Trunk Master.

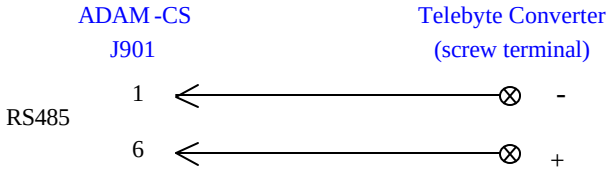
The Telebyte switches should be set to operate in RS485 mode:

sw1 closed (on)
sw2 open (off)
sw3 open (off)
sw4 closed (on)
sw5 open (off)

Set the mode switch to operate in DTE mode.

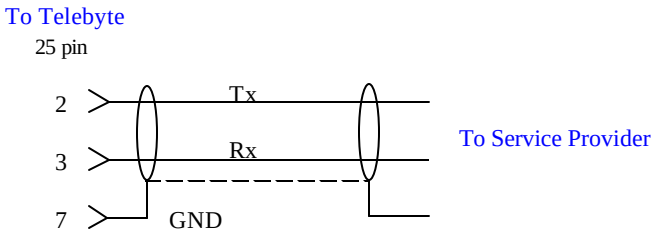
REMOTE SITE:

The trunk connection at the remote site is via J901 is as follows:



The Telebyte converter is then connected to the interface for the leased data circuit provided by the Service Provider. Pin-out provided by service provider. The data circuit must be able to pass 9.6 K baud rate minimum.

The pin-out for the Telebyte RS232 connection is as follows:

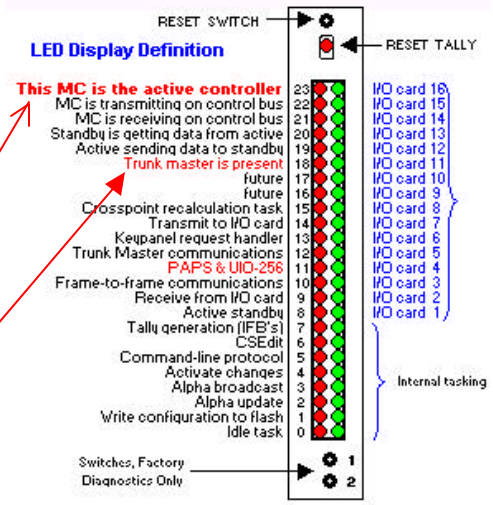


The Telebyte switches should be set to operate in RS485 mode:

sw1 closed (on)
sw2 open (off)
sw3 open (off)
sw4 closed (on)
sw5 open (off)

Set mode switch to DCE operation.

After this is done you should be able to view the second frame is OK and CUR (current). The top red LED should be on for the active controller card (2 right most cards) when the frame logs into the trunk master the sixth red LED from the top (#18) should also light.

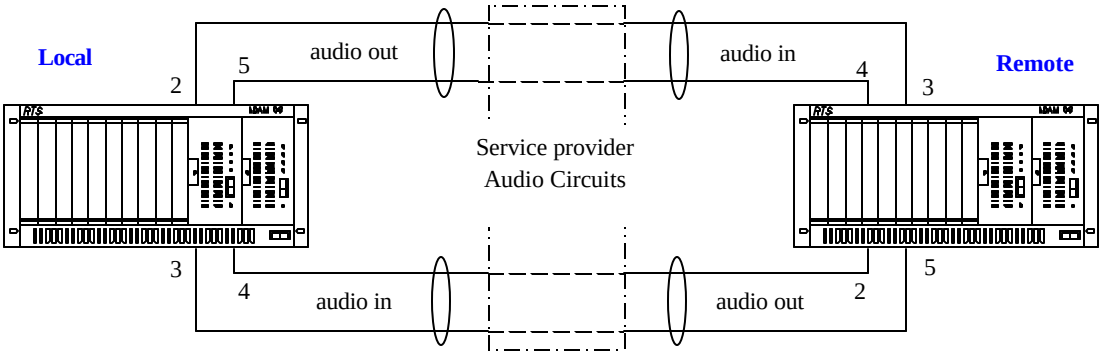


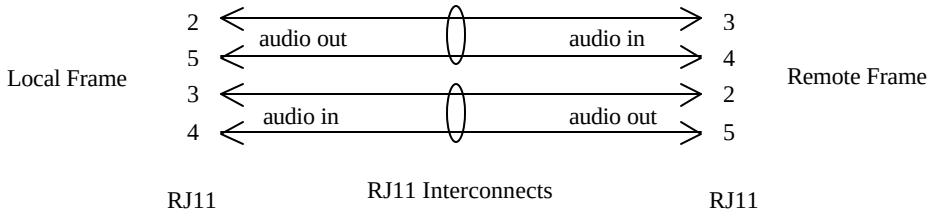
AUDIO CONNECTIONS :

The audio connection between the 2 sites should be as follows:

The audio will come directly from the intercom ports in each frame to the interface for the (600 ohm) leased audio circuits. Pin-out provided by the Service provider.

The pin-out for the cable is as follows , Example using J504 on each end this cable is covered by figure 18 on page 23 in the ADAM CS install manual . NOTE : Be certain the pin-out is maintained correctly throughout the Service Providers interface.





All ports used for trunking will connect in the same manner and will provide the audio ties between the two sites.

DEFINING THE TRUNKS

Defining the various trunks in the system can be found in the CStrunk User's Manual beginning on page 2-4.

ADAMedit

Trunking support must be enabled in ADAMedit either by on-screen settings or by editing the ADAMEDIT.INI file, depending on the version of ADAMedit being used.

In ADAMedit under "Options\Preferences" select "Enable Trunking Support" for both Local and Remote frames.

On the Remote frame only, enable "Allow for Remote Trunk Master". This may be found under "Intercom Configuration" menu.

If these selections are not present in your version of ADAMedit, you may make these settings in the ADAMEDIT.INI file with a simple text editor.

MASTER CONTROLLER CARDS

Be certain jumper JP501 is set for RS485. Note that the screen legend on the M/C card is reversed. In order to be in RS485 mode, the jumper must be set in the RS232 position.