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SR-04 Wireless RS-232 Multiplexer Additional Configuration Instructions

This addendum describes the procedure required to configure internal radio modems in the SR-04W multiplexer

Setup Procedures:

The internal radio management port operates at 19,200 BPS and it uses the same port for the data I/O and the management. The radio typically has a composite rate of 56,700 BPS when installed in the SR-04.

Radio Setup Procedure:

1. Use a terminal or PC connected to the SR-04 management port (or to Port 1 using the Port 1 setup function). The management port is always at 9600 BPS, Port 1 can be set at speeds up to 57.6 and its speed should match the terminal on port 1.
2. Set the SR-04 composite port to 19,200 bps using the CN command. The composite port of the SR-04 is asynchronous when set to 19,200 bps.
3. Use the CM command to connect to the radio modem. Make the necessary changes to the radio. As the SR-04W comes from the factory, the only item that might need to be changed is usually the call book, which is the radio address.
4. After changing the desired radio settings, use the ESC key to back out of the radio setup.
5. Change the SR-04 composite port back to the correct speed, usually 57,600 bps, to match the radio modem data rate.

Use the CN command to change the network rate.

Background Information:

The SR4 firmware contains a network management port command "Configure Modem" (CM) to permit direct access to the device connected to the network port. The CM command shows a warning message if the network is set for SYNC operation and a second message if the network DCD is ON, but the connection still occurs. Note that if the network is set for SYNC, it is not changed when the CM command is executed, and most network devices require ASYNC connections for configuration.

When CM is active, all other SR4 multiplexer operations are suspended, and a direct connection is enabled to the common channel modem from the network management port (or Port 1 if port 1 setup is enabled). All characters sent to the network management port are sent to the common channel, and all characters from the common channel are passed to the network management port. No flow control is implemented but there are character buffers in both directions and rate conversion can take place. Typing ESC ESC <Enter> terminates the CM command.

The following addendum to the SR-04W manual details exact steps for a normal onfiguration.

The SR-04 multiplexer with internal wireless modem is configured at the factory to work in most applications. If changes are required to the modem settings, connect a terminal to the multiplexer network management port and follow the procedure below. User responses are shown in BOLD.

Set mux composite to match modem setup rate

AT YOUR COMMAND >> CN<Enter>

CONFIGURE NETWORK

ASYNC MODEM: 57600
LEASED LINE
ERROR CORRECTION OFF
SYNC or ASYNC modem? [S/A] >> A<Enter>
ASYNC rate? [9600 / 19200 / 38400 / 57600 / 115200] >> 19<Enter>
Leased or Dialup Line? [L/D] >> L<Enter>
Enable Error Correction? [Y/N] >> N<Enter>
ASYNC MODEM: 19200
LEASED LINE
ERROR CORRECTION OFF

Enter Modem Setup mode

AT YOUR COMMAND >> CM<Enter>
*** CONFIGURE NETWORK MODEM - Type ESC ESC to stop
*** WARNING: Network DCD is ON
MAIN MENU
Version 5.51 7-23-98
Standard Hop Table
Modem Serial Number 900-7532
(0) Set Operation Mode
(1) Set Baud Rate
(2) Edit Call Book
(3) Edit Radio Transmission Characteristics
(4) Show Radio Statistics
(5) Edit MultiPoint Parameters
(6) TDMA Menu
(Esc) Exit Setup
Enter Choice

Make the required changes following the menu prompts. Type Esc Esc to exit.

ESC ESC <Enter>

*** END CONFIGURE MODEM

set mux composite to match modem baud rate

AT YOUR COMMAND >> CN<Enter>

CONFIGURE NETWORK

ASYNC MODEM: 19200
LEASED LINE
ERROR CORRECTION OFF
SYNC or ASYNC modem? [S/A] >> A<Enter>
ASYNC rate? [9600 / 19200 / 38400 / 57600 / 115200] >> 57<Enter>

NOTE: The ASYNC rate selected must match the modem Baud Rate

Leased or Dialup Line? [L/D] >> L<Enter>
Enable Error Correction? [Y/N] >> N<Enter>
ASYNC MODEM: 57600
LEASED LINE
ERROR CORRECTION OFF
AT YOUR COMMAND >>