

Quick Start Guide

This Quick Start Guide will help you get started with programming your CDS-90XX modem after you establish activation with your cellular provider.

CONNECTING TO THE CDS-90XX AND LOCAL CONFIGURATION MENU PROGRAMMING

1. Plug power into input (12VDC 2.5 AMP "Part Number **DRP-DT**")
2. Connect the DB-9/RS-232 cable from your computer or laptop to the DataRemote modem.
3. Launch a terminal program. (Available on CD, HyperTerminal, ProComm, etc.) Select the correct COM port on terminal. (COM 1 in most cases).
4. Default baud rate is set to 19200bps, No parity, 8 data bits and 1 stop bit. Note: If setting is changed, DTE must be set to same baud rate as the previous configuration of the CDS-90XX.
5. Make sure you are talking to the CDS by typing "ATI3". You should receive a reply of "OK". If not, then you are not connected to the modem. Check your RS-232 cable. Switch over to the COM port that the CDS is connected to. **"DTR LED should be ON"**
6. Press CTRL-W three times simultaneously. (Hold down Control key and press W three times within 3 seconds.) The Configuration Menu will display. If the Configuration Menu does not display repeat step 6.

Over-the-air Programming

*This section describes the steps necessary to update a DataRemote modem's mobile phone number, min number and PRL via OTP (over the air programming) using Verizon's (star)*22899 functionality. OTP can be used to establish new service and updating the PRL file.*

IMPORTANT: Make sure you are within a **Verizon system** area when performing this procedure. You cannot be roaming on another system.

1. Make sure you're in terminal mode. If you're in the configuration menu, type "X" to return to terminal mode. Use the command, AT+CDV*22899 to initiate the OTP update. Once this command is entered, it will take about 30 seconds for the connection to establish. Then you will observe the CD (carrier detect) LED go red for approximately one minute while programming completes.
2. Return to the Configuration Menu, and then select "F" to open the Programming Menu.
3. From the Programming menu, verify that the new Mobile and MIN numbers have been loaded. The PRL (Preferred Roaming List) number may change as well.

Programming the Phone Number (For Non-Verizon carriers)

1. At the Configuration Menu, select Option "F", Reprogram Modem Information.
2. Select option "A", Enter phone number including area code. (Press enter)
3. Select option "B", Enter MSID Number. (This may be the same as the phone number depending on the provider)(Press enter)
4. Select option "G", labeled "Preferred Service", Toggle to "Digital Only" setting.
5. Select option "J", **to program the modem**. Answer "Yes" to "Are you sure?"

Warning: exiting menu without pressing option J to save new setting modem will go back to factory settings.

Displaying Signal Strength (to verify that you are picking up a signal)

1. Enter configuration menu. Press Option "G".
2. After a few seconds, signal strength will display on the screen.

Received Signal Strength Indicator (RSSI)***No signal=0, Maximum signal=63******Channel,RSSI,SID,Mode,Time: 268, 41, 2, CDMA, 04:28:02******Channel,RSSI,SID,Mode,Time: 268, 41, 2, CDMA, 04:28:04******(Press any key to exit)***

Each line gives the channel, the RSSI value, the SID, the Mode, and the time. So in the first line of the example, the channel is 268, the RSSI value is 41, the SID is 2, the mode is CDMA, and the time is 04:28:02 (hour:minute:seconds).

The maximum possible signal strength reading is 63. Signal strength of 31 or higher is functional. If the signal strength is lower than 27 unreliable communications and dropped calls may result. An optional DataRemote high gain antenna may be installed to increase the received signal strength. Visit www.dataremote.com to view antenna options.

After programming is complete dial an outbound call to register the Modem (ATDTyourPersonal cell number) ATDT8053331234 "Not the modems number"

Dialing Into the CDS-90XX Programming Menu (IS-95)

1. Launch a Terminal Program from your host computer connected to a Hayes compatible modem. Set the baud rate (19,200bps default), COM port selection, parity (None), and flow control (8, 1).
2. Type AT into the host terminal software. The modem will respond OK.
3. To dial into the CDS-90XX, use the standard ATDT command. (ATDTModem number) After the CONNECT message displays or CD goes high; Press CTRL-W three times simultaneously. Main configuration menu will display. If not repeat step 3.