

Application Note

#5408

Nov. 13, 2000

*Using HyperTerminal to program
FreeWave radios*

When using FreeWave modems one of the most common questions we're asked is how to access the setup menu in HyperTerminal. When setting up HyperTerminal the most crucial settings are proper Com port selection and baud rate. If these settings are not correct you will not be able to access the setup menu.

Equipment Used:

- 1.) 1 RS-232 cable
- 2.) A FreeWave Modem with power supply

Procedure:

- 1.) Click on the start button, go to **programs, accessories, communications**, and select **HyperTerminal**. When the window pops up select **Hypertrm.exe**
- 2.) Enter a name for the new connection you're creating. Choose an Icon, click **OK**
- 3.) The **Connect Using** Tab will pop up and you will need to choose the type of connection you're using from the drop down box. In most cases it will be either **direct to com1** or **direct to com2**. Select the appropriate setting and click **OK**.
- 4.) In the **Properties** window you will notice the **Port Setting** tab, change the **Baud Rate** to **19200**. Check the following settings **Data Bits = 8, Parity Bits = None, Stop Bits = 1, & Flow Control = Hardware**. Click **OK**.
- 5.) Press the **Setup Button** on the FreeWave Radio. You should see the FreeWave set up Main Menu.
- 6.) Once you have made a successful connection in HyperTerminal you should save the settings by clicking on the **Disk** icon on the toolbar.

IMPORTANT: Whenever you make a change to the settings in an open terminal session you must first **disconnect** and then **reconnect** before the settings will take effect. To do this, click the phone button on the toolbar that shows disconnect then click on the phone button that says call. This will reestablish a new connection with the new settings.

If nothing shows on screen after pressing the setup button:

- 1.) It usually means one of two things; either the wrong Com port is selected or a null modem RS-232 cable is being used. To change Com ports go to the toolbar and select **File** then select **Properties**. Click on the **Connect To** tab and verify that the right Com port is selected. If not sure try them all until the setup menu can be accessed. **Reminder:** Disconnect and Reconnect every time a setting is changed in HyperTerminal.

If after pressing the setup button you see gibberish going across the screen:

- 1.) It means you have a Baud Rate problem. To solve this problem, go to the toolbar and select **File**, then select **Properties**. Click on the **Configure** button to change the **Baud Rate** to **19200**. Click **OK, OK**. Now Click the **Disconnect** button and then click the **Call** button. Press the setup button on the modem and the setup screen should appear.



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If you can see the setup screen and you press a key on the keyboard and nothing happens:

- 1.) This means you are probably using a three wire connection, Rx, Tx & Gnd, if this is the case go to the toolbar and select **File**, then select **Properties**. Click on the **Configure** button to change the **Flow Control** to **None**. Click **OK, OK**. Now Click the **Disconnect** button and then click the **Call** button. Press the setup button on the modem and the setup screen should appear. You should now be able to use the keyboard.

If you are connected and receiving data through HyperTerminal and some data is correct but the remaining data is unrecognizable characters:

- 1.) This is usually due to a parity mismatch problem. To fix this make sure the parity of the radio and the parity of HyperTerminal are set the same. You can find the HyperTerminal parity settings under properties and the FreeWave parity is found under Baud Rate in the setup mode.

If you still are unable to connect our radios through HyperTerminal please feel free to call us at the number below.



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