

EZ Config V2.5 Instructions

FreeWave EZ Config is a GUI-based setup software that is designed to provide reliable, easy-to-use, and repeatable programming for FreeWave wireless data transceivers. EZ Config 2.5 is compatible with several different versions of FreeWave radio models. To select the Radio Model, pull down the File menu for a list of all available models supported. The following is a guideline that should be used to successfully program a radio.

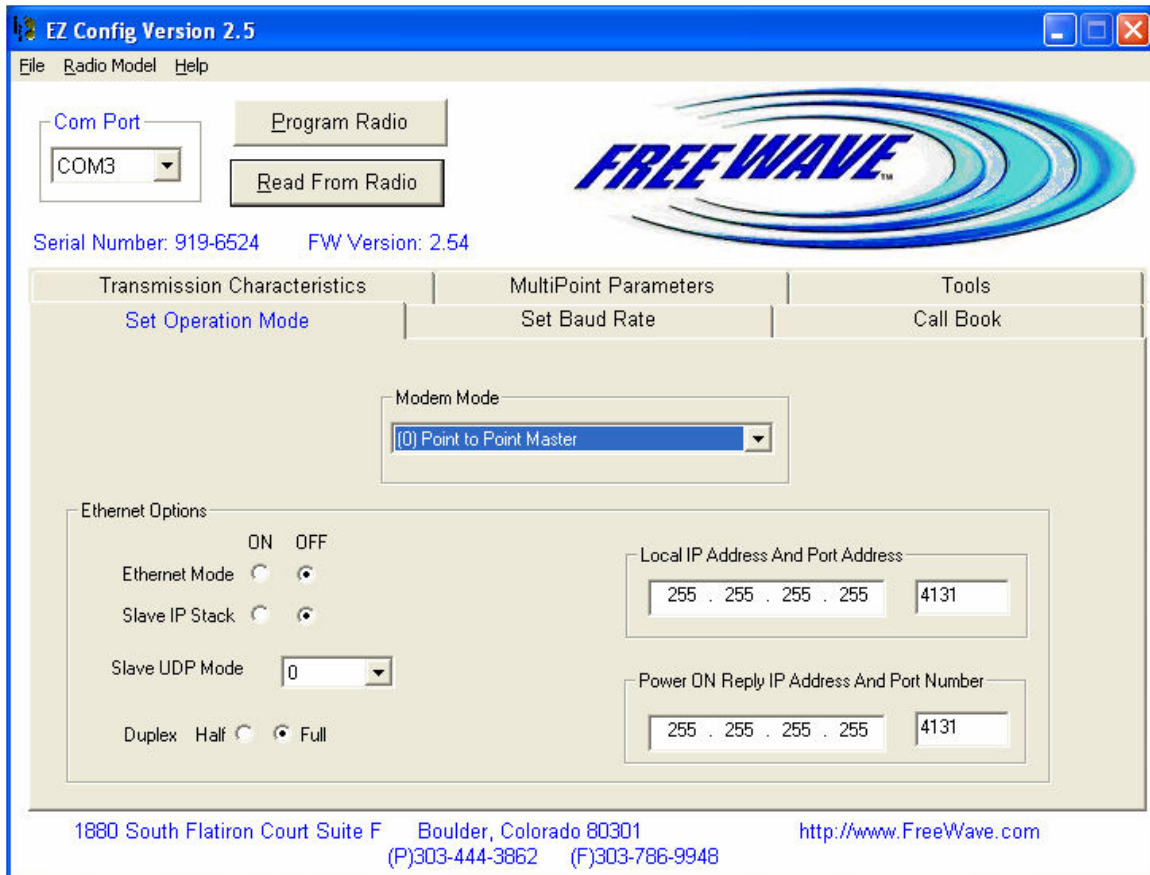


Figure 1

Upon launching the program, a screen similar to the one shown in Figure 1 will appear. To begin setting up a configuration, select the appropriate tab and select the desired settings. The tabs 'Set Operation Mode', 'Call Book', 'Set Baud Rate', 'Transmission Characteristics', and 'MultiPoint Parameters' correspond to the menu structure displayed through HyperTerminal setup.

When opening EZConfig, the program will not automatically read the current settings of the radio. The user must press the "Read from Radio" button to access current settings.

Specific setting descriptions and operation explanations are detailed in the FreeWave User's manual which is available by calling **FreeWave Technical support** at **303-444-3862**.

Select the appropriate communications port to be used to access the radio. This is done by clicking on the drop down box that is below the "Com Port" text as shown in Figure 1.

This drop down box will display only the serial ports that are present on the specific computer that is being used. Available serial ports may vary from computer to computer.

A new feature available in EZ Config V2.5 is that the program automatically detects which port on the radio it is attached to, Main or Diagnostics. The Main Port is usually a standard DB 9 port on enclosed radios. On board-level transceivers this port is the white 10-pin header located directly to the right of the 3 LED status lights. The Diagnostics Port on most enclosed and "Mini" radios is a small 3-pin connector that is labeled "Diag. Port". On standard size OEM board-level radios, the Diag port is a 20 pin Black connector located directly behind the 3 LED's.

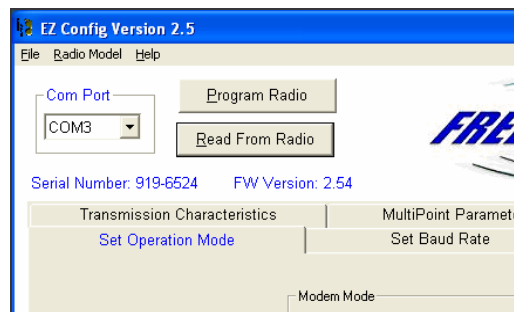


Figure 2

Once all settings are verified as correct, proceed by clicking on the "Program Radio" button. If connected to the diagnostics port and the appropriate radio button is selected, the user will NOT be prompted for any further interaction. If connected to the main port, the user will be prompted to place the radio into setup by pressing the transceiver's setup button. While programming, a dialog box displaying the current status and progress will be displayed to the user. This dialog will terminate at the end of transceiver programming.

After successfully programming the transceiver, there will NOT be a successful confirmation dialog. Rather, the program will return to the original screen such as seen in Figure 1. However, if a radio fails verification, the user will be alerted with a "Radio Failed Verification" error dialog.

Current settings in a transceiver may also be read in to and out of the dialog by selecting the “Read From Radio” button, as seen in Figure 1. This should only be done after selecting the proper communications port.

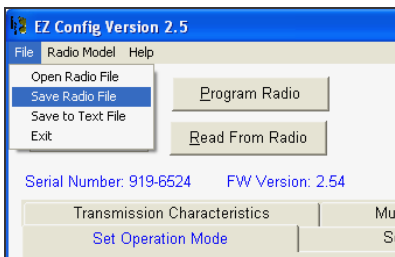


Figure 3

If a user wishes to save transceiver configuration files, this may be done by selecting the “Save Radio File” menu item located under the ‘File’ menu as demonstrated in Figure 3. The saved file will consist of the settings that are currently displayed in the dialog.

Likewise, a saved configuration file may be opened by selecting the “Open Radio File” menu item located in the ‘File’ drop down menu. This will update the dialog to represent the settings that are saved in the file. These settings may immediately be programmed into a transceiver by selecting the “Program Radio” button after opening the saved file. Be sure to select the proper communications port. There is also a “Save to Text File” option under File which allows the user to view all the radio settings in a text file.

When programming Mirrored Bit, Short Range, Ranger, F-Series (Narrow Band), IO Master or IO Slave, 2.4GHz IM-Series or HT radios, the user will need to take advantage of the “Radio Model” drop down menu as demonstrated below in Figure 4. The default is 900MHz FGR series. Selecting the appropriate radio model will update the EZ Config dialog with the appropriate array of available radio settings. Another way of selecting the proper dialog format for the radio to be programmed is to use the “Read From Radio” function which will automatically update the dialog.

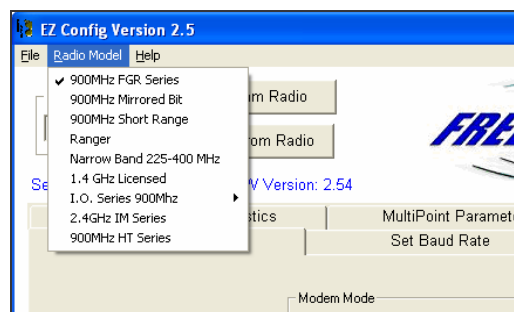


Figure 4

If the EZ Config dialog is closed, the current settings will NOT be saved and the dialog will revert back to standard factory default settings the next time it is opened.

The Serial Number and Firmware Version (FW Version) text fields will populate automatically after each successful communication with a transceiver. Firmware Version and Serial Number information is NOT saved into configuration files and therefore is NOT retrievable from saved transceiver files. Figure 3 demonstrates these two text fields after successfully reading from a radio.

There is a password removal feature that is available in EZ Config. It is located under the “Tools” tab. In order to remove a password that has been set, the user must first press the remove password function before doing a “Read from Radio”. If the user first does a “Read from Radio” when there is a password already in the radio, EZ Config will prompt an error.

Another available feature in the Tools Tab is a button to enable 256kbit encryption on FGR-HT series radios. When the Set Encryption Key button is selected, a text box will appear to input key code, Figure 5. Enter a case sensitive key code using any combination of up to 100 characters long. Save the key code to the radio by clicking the OK button. Key codes must be identical on all radios in a given network. The Encryption Key must be set individually on each radio. Use caution when assigning Encryption Key Codes. This parameter is not saved when the file is saved. Encryption is only available on FGR-HT series radios at this time.

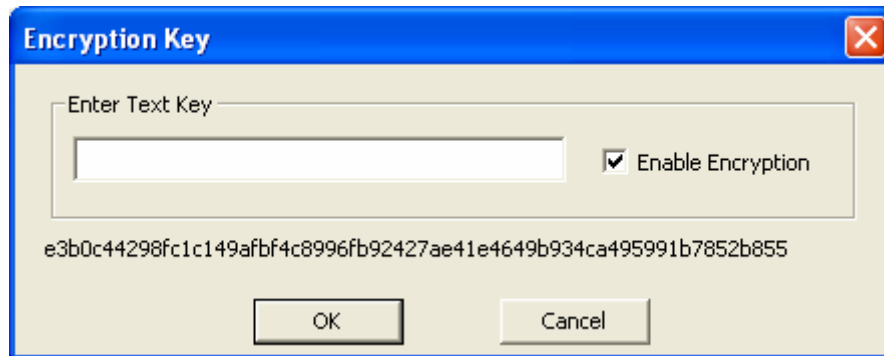


Figure 5

A new feature available in EZ Config V2.5 Tools Tab is the button “Terminal Window.” This feature will open a HyperTerminal window to the radio at the selected COM port.

Local mode control is also included in EZ Config V2.5. Please see Application Note # 5457, “Local Mode,” for more information about Local Mode features.