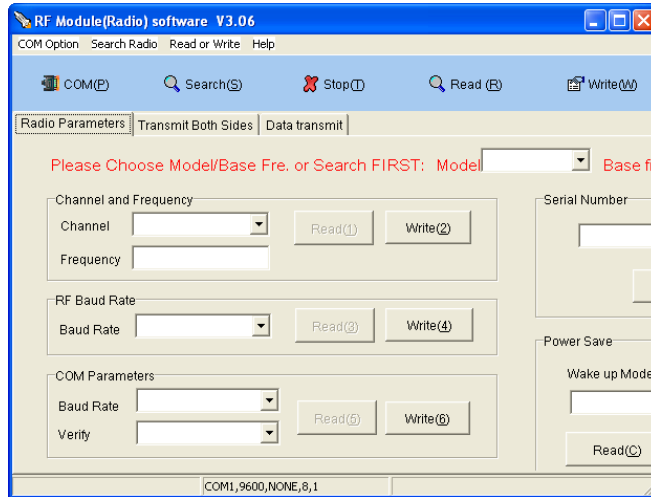


# RF Module Software

## RF Module Setup Software

### User's Manual



#### About RF Module Software

The main window has three tabs. The main RF module functions can be set from the Radio Parameters tab. For most applications, you only need to set the Channel and Frequency, the RF Baud Rate and the COM baud rate.

#### Channel and Frequency:

You can read and write the channel and frequency. Each channel corresponds with a fixed frequency. The ATC-863 has 8 channels, the ATC-871 has 16 channels.

#### RF Baud Rate:

This is the over the air baud rate for the RF section.

#### COM Parameters:

Set the baud rate to the desired speed. Set the parity (verify) if needed. The COM parameters must be the same as the connected equipment.

The rest of the setup features are not required.

#### Transmit Both Sides:

This feature is for testing the data transmit between two radio modules. Connect two radio modules to separate COM channels.

#### Data Transmit:

This feature is for testing the data transmit and receive between two units. Data is sent each time the Transmit button is pressed.

#### Running the Setup Software

Copy the software folder from the CD to an empty folder on your PC. Open the folder and double-click the **RF\_Module\_Soft.exe** file. When the program starts, it will try to open a com port.

Click the **COM(P)** button and set the PC com port to the default module settings. 9600, None, 8 data bits, 1 start bit, 1 stop bit. (Note: Verify means Parity)

Connect a data cable from your PC to the module com port connector. Use a null modem cable.

**\*If you are using the ATC-863-S2, you must have a RS485 adapter.**

Click the **Search** button and watch the status box on the bottom of the window. It will automatically try different settings until it finds a module.

Once the com ports are connected, press the **Read** button on the tool bar to read all the setup parameters.

#### Channel and Frequency

You can change the Channel and Frequency by selecting a new channel in the drop down list and pressing the

**Write** button. Use the **Read** button to verify the new setting. Watch the status message on the bottom of the window.

#### RF Baud Rate

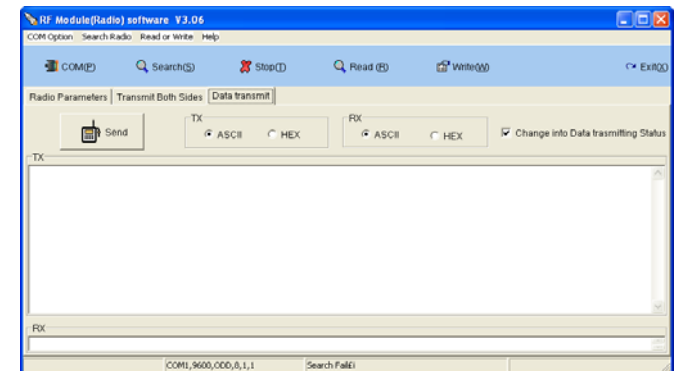
You can select the radio RF Baud Rate from the drop down list. Click the **Write** button to write it to the radio. Use the **Read** button to verify the new setting. Watch the status message on the bottom of the window.

#### COM Parameters

You can select the radio serial COM baud rate and the Parity (Verify) from the drop down menus. Click the **Write** button to write it to the radio. Use the **Read** button to verify the new setting. Watch the status message on the bottom of the window.

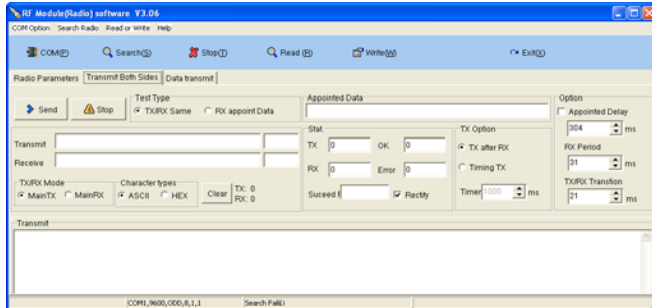
#### Data Transmit

Use these features to test the data link. Connect two radios with the same channel, RF baud rate, and COM baud rate. Set both units to Data Transmit. Enter data in the TX window and press SEND. See the data in the other unit RX window.



## Transmit Both Sides

Use this feature to test the data link with continuous transmit and receive. One side of the radio pair is set to TX and the other RX.



On the TX side, set TX/RX Mode to Main TX. Enter data in the small Transmit field and press Send.

On the RX side, set the TX/RX Mode to Main RX. Press Receive to start and view data in the large windows.

Options:

Set TX Option to TX after RX and data will be sent after the receive timeout. Set to Timing TX to time the TX period. Set the period in milliseconds.