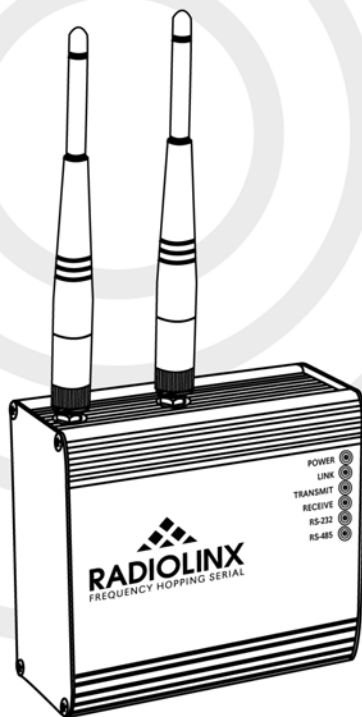




RLX-FHS  
Wireless Serial  
Modem



**Quick Start  
Guide**



June 9, 2004



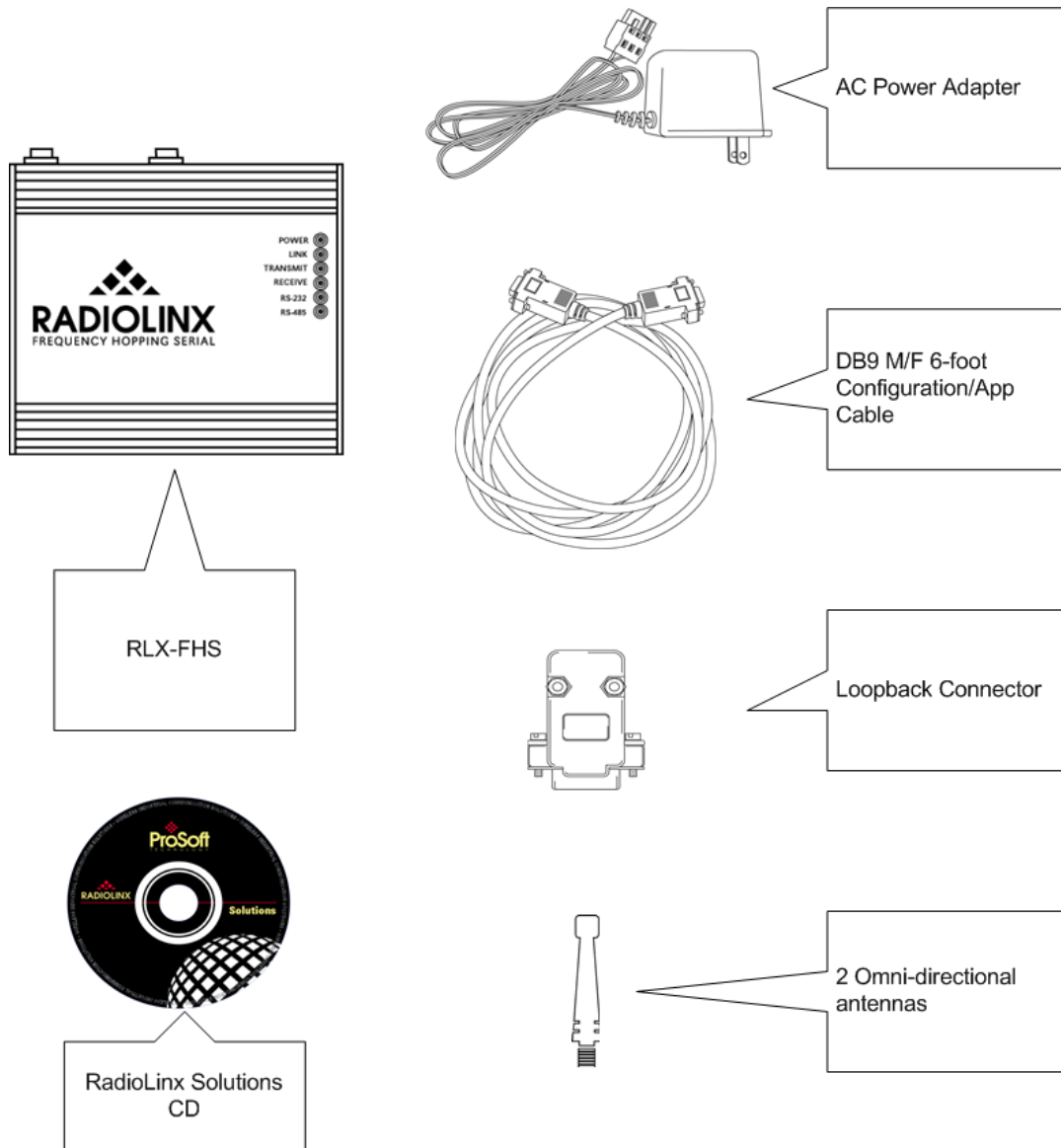
## Table of Contents

<b>BEFORE YOU BEGIN .....</b>	<b>5</b>
<b>INSTALL THE CONFIGURATION SOFTWARE ON YOUR PC.....</b>	<b>6</b>
<b>CONNECT YOUR PC TO A RLX-FHS .....</b>	<b>7</b>
<b>CONFIGURE REMOTE AND MASTER RLX-FHS WIRELESS SERIAL MODEMS .....</b>	<b>8</b>
<b>TEST COMMUNICATIONS (OPTIONAL) .....</b>	<b>11</b>
<b>ADVANCED CONFIGURATION SCREENS.....</b>	<b>13</b>
<i>Modbus RTU or ASCII Network .....</i>	<i>14</i>
<i>DNP Network.....</i>	<i>15</i>
<i>Encryption Keys .....</i>	<i>15</i>
<b>IF YOU ENCOUNTER PROBLEMS.....</b>	<b>16</b>
<b>WHAT'S NEXT?.....</b>	<b>16</b>



# Before You Begin

Your RLX-FHS Wireless Serial Modem is shipped with the following:

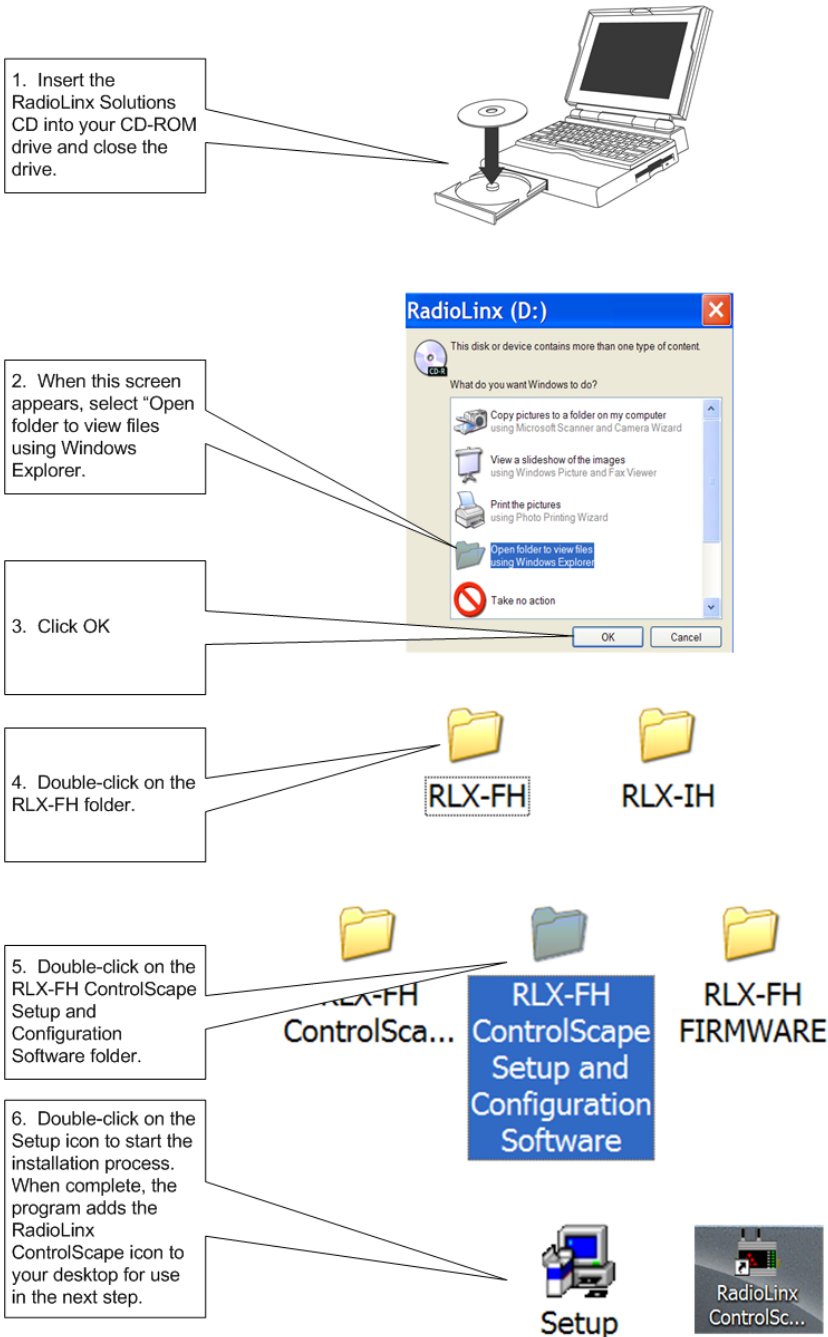


You will also receive a RadioLinX Solutions CD. In addition, you will need:

- A PC or Laptop computer
- RS-422/485 wiring connector (shipped with the modem) – not shown.

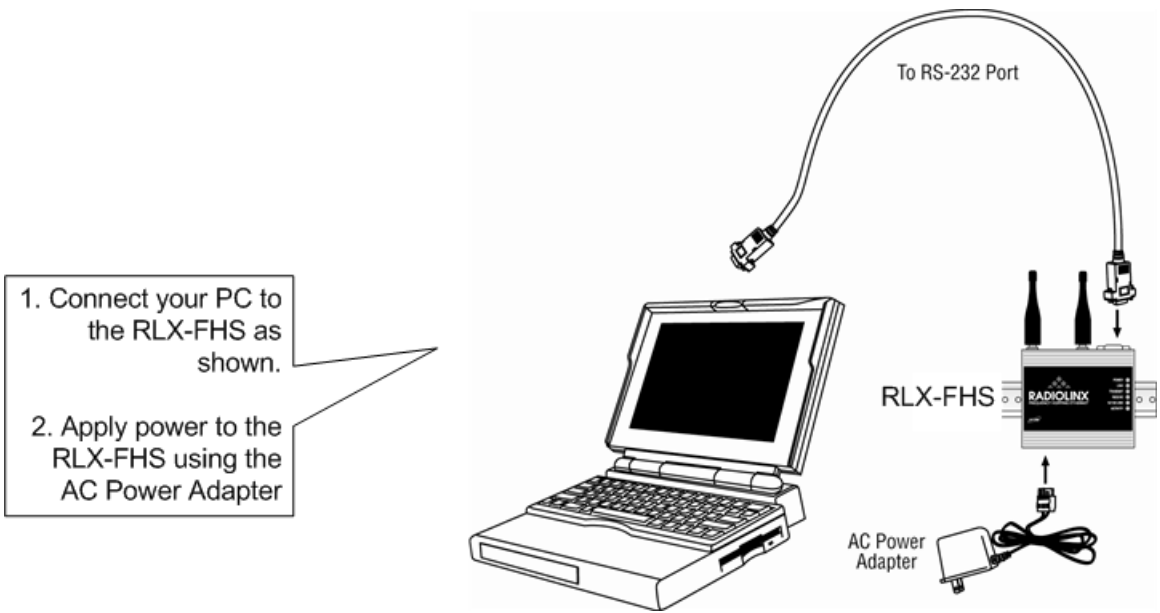
# Install the Configuration Software on Your PC

**Note:** Some of the examples contained in this guide are based on the Microsoft XP Professional operating system. Your screens may differ if you are using a different operating system.

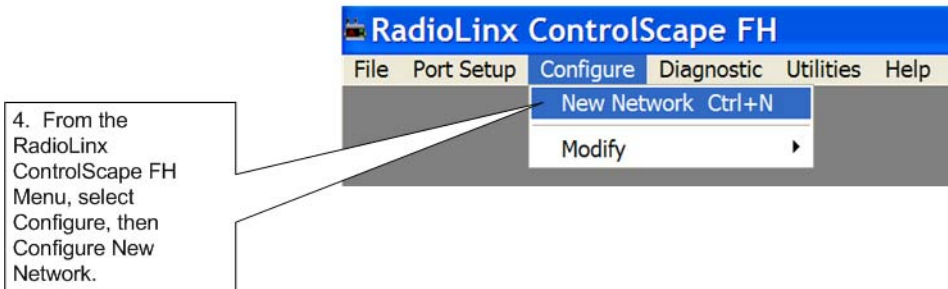
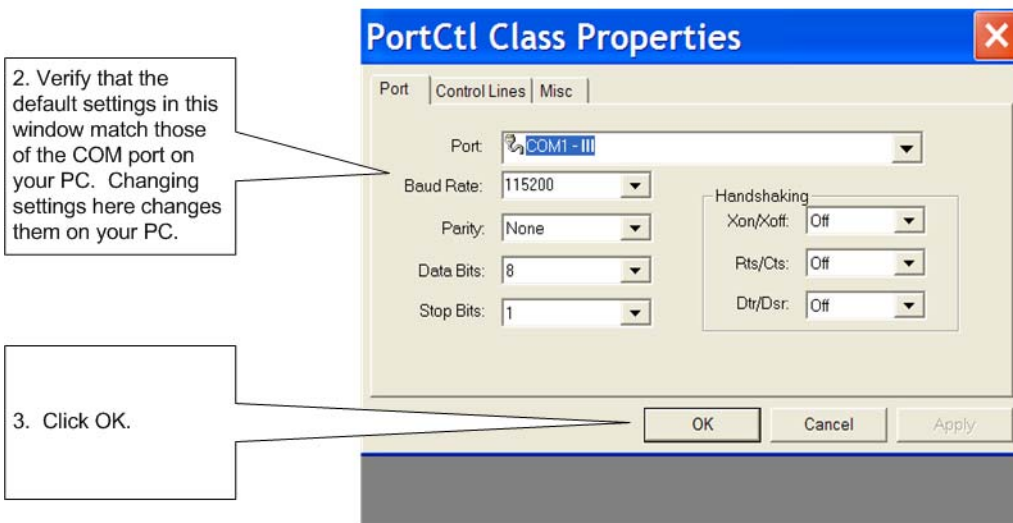
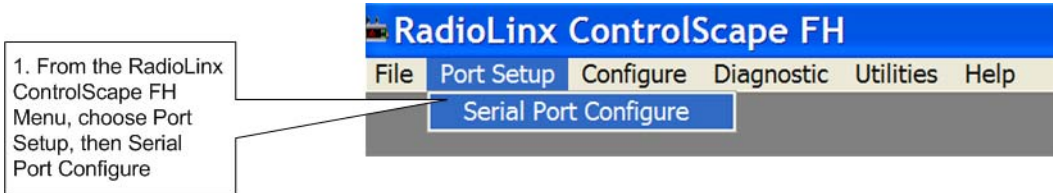


# Connect Your PC to a RLX-FHS

Note: This Startup Guide assumes that you have two (2) RLX-FHS modems. During the procedure, one RLX-FHS will be set up as a Master (base) modem and the other a Remote.



# Configure Remote and Master RLX-FHS Wireless Serial Modems





5. Type in a network name if desired.

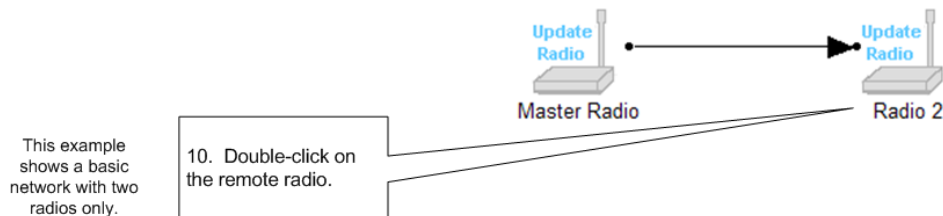
6. Click on the Serial Radio Network button.

7. Select the Serial Protocol type, typically Protocol Transparent Point-to-Point.

8. Choose a network channel.

9. Choose OK.

\* Some protocol selections require that you provide additional information using advanced features of the software. Refer to the back of the Quick Start and online Help for more information.  
 \*\* See the end of this guide for information on Encryption.



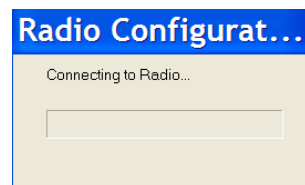
11. Type in a Radio name.

12. Ensure that the serial port settings match those for the device.

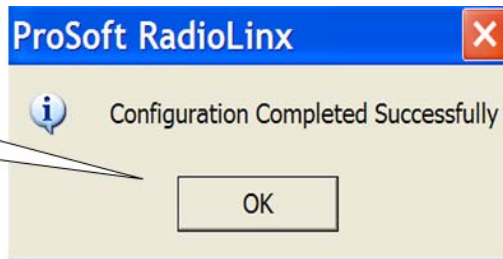
Advanced selections are not required for this Quick Start

13. Click the Configure Radio button to start the configuration process.

Once you click the Configure Radio button, a dialog box appears showing the progress of the configuration download.



14. Once the radio is configured, the Successful Configuration dialog appears. Click OK.



15. The remote radio icon now appears in a darker color indicating that it has been properly configured.


The box around the radio icon shows which RLX-FHS is selected.

16. Cycle power to the RLX-FHS

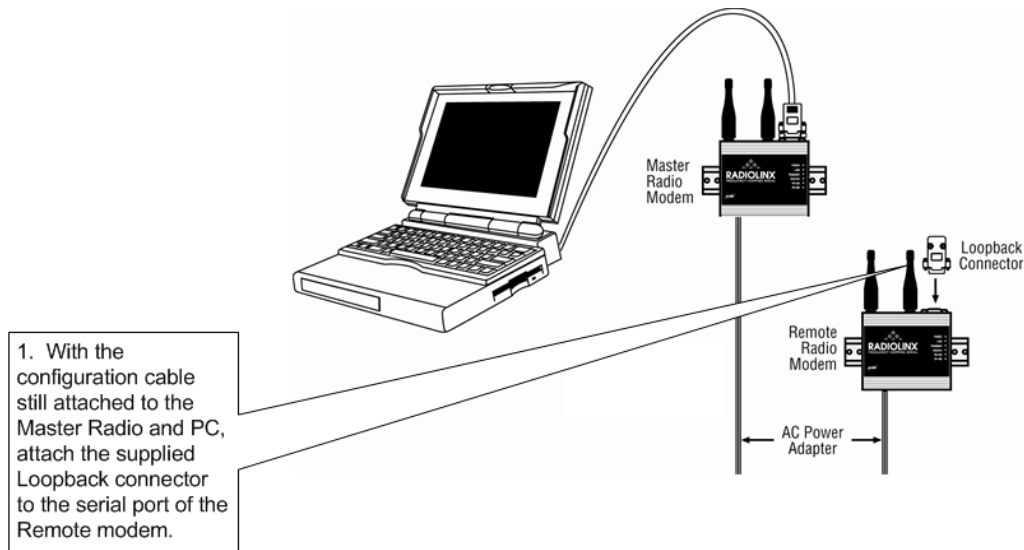
Repeat the same process for all RLX-FHS Wireless Serial Modems. Once all RLX-FHS are configured, repeat the same process for the RLX-FHS Master.

# Test Communications (Optional)

This test sends the contents of a simple text file through the master radio to the remote radio and back.

Using Notepad (**Start → Programs → Accessories → Notepad** ) , create a text file that simply says “hello” and save the file to a location on your hard drive. Name the file looptest.txt. You will use this file later in this procedure.

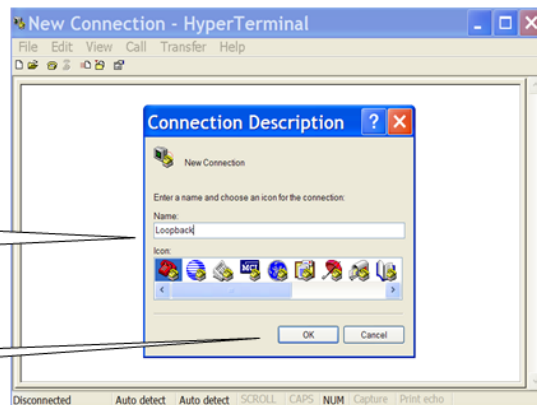
**Note:** If you do not want to create your own looptest.txt file, one is included for you on the RadioLinx CD.

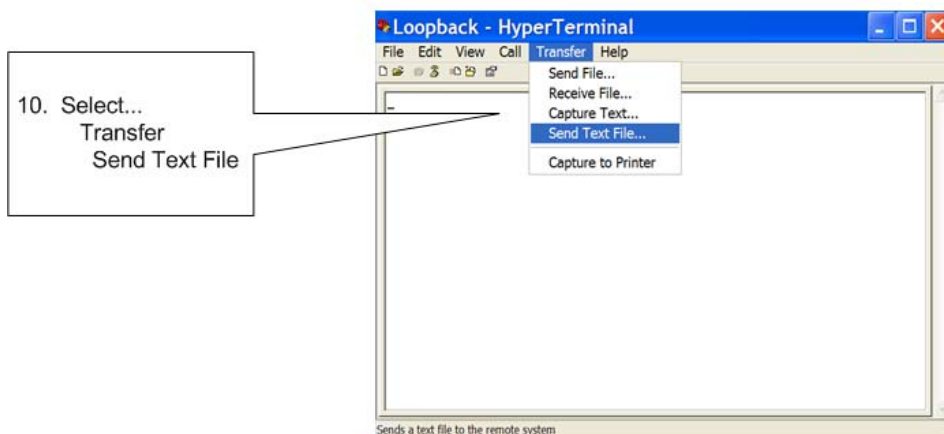
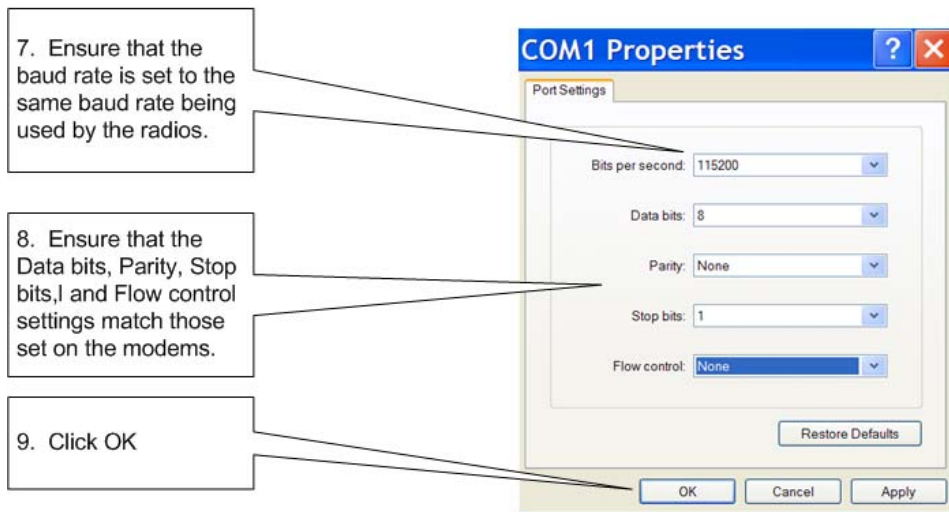
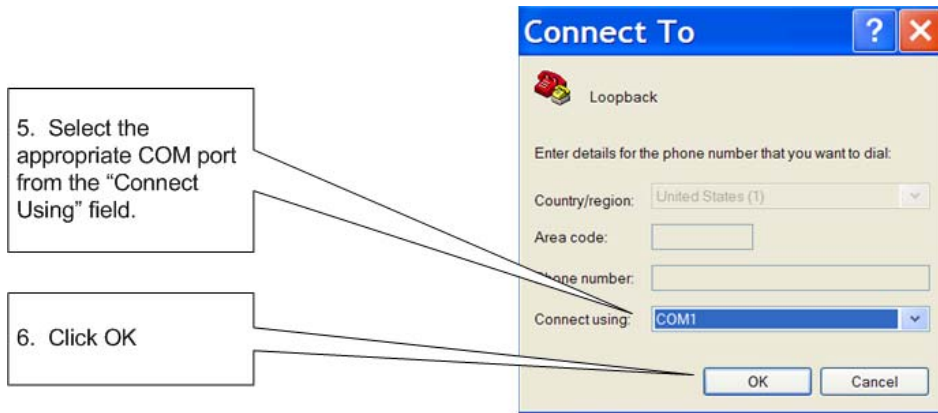


2. From the Start menu, select  
Programs  
Accessories  
Communications  
Hyperterminal

3. Type in a connection name and select a logo.

4. Click OK





Browse for the looptest.txt file you created at the beginning of this procedure (or select it from the CD). The information from this text file is transferred from the Master radio to the Remote radio. The Remote radio sends the data through the loopback connector and the data is sent back from the Remote radio to the Master radio. The "hello" message (if you created the text file) or a "Congratulations..." message appears (if you used the looptest.txt file from the CD) on your HyperTerminal screen indicating communication between both the master and remote radios was successful.

# Advanced Configuration Screens

The Advanced Configuration screens provide additional options during wireless radio configuration. Under normal circumstances, the default settings will suffice. For changes to other fields, use the online Help system for more detail.

The screenshot shows the 'Radio Configuration - Radio 2' dialog box. It includes fields for Radio Name, Radio Address, Device Network, Last Date Configured, and Last S/N Configured. A status message indicates 'This radio has not yet been configured.' The dialog is divided into sections: Equipment Settings, RF Settings, Radio Network Settings, and Repeater Antenna Settings. Callout boxes provide the following instructions:

- Transmit Power:** Use this field to change the transmit power intensity of the radio; typically set to Max.
- Repeater:** Mark this box to use this radio as a repeater to achieve line-of-sight between two other radios.
- Destination:** Choose the destination of the signal transmitted from the radio being configured.

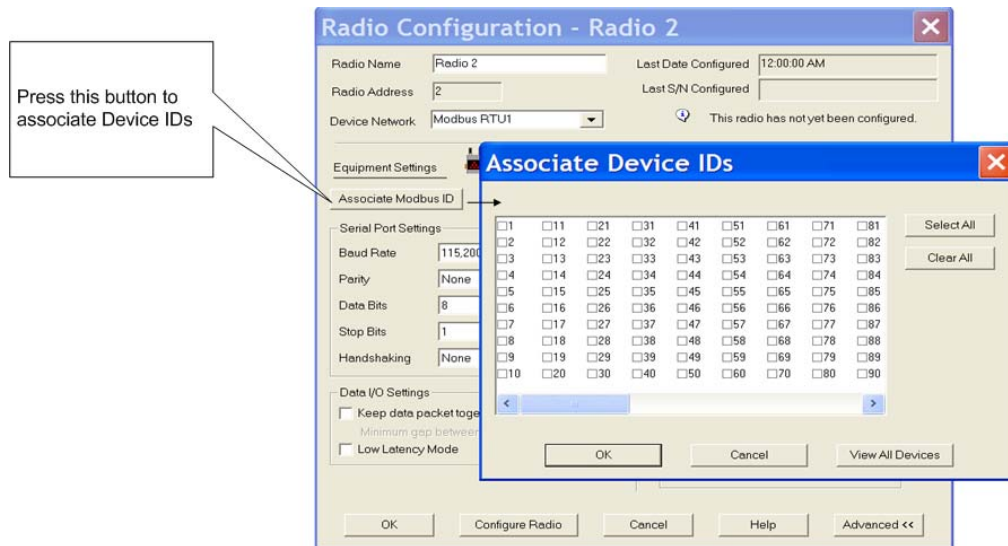
Buttons at the bottom include OK, Configure Radio, Cancel, Help, and Advanced <<.

**Note:** While the majority of Advanced Configuration views are identical between protocols, some views may contain additional fields not found in the same view for a different protocol.

## Modbus RTU or ASCII Network

If you are setting up a Modbus RTU or ASCII network, you will have to associate device IDs on the Modbus network. The following screen appears when you press the Associate Modbus ID button on the radio configuration screen. Refer to the online Help system for details.

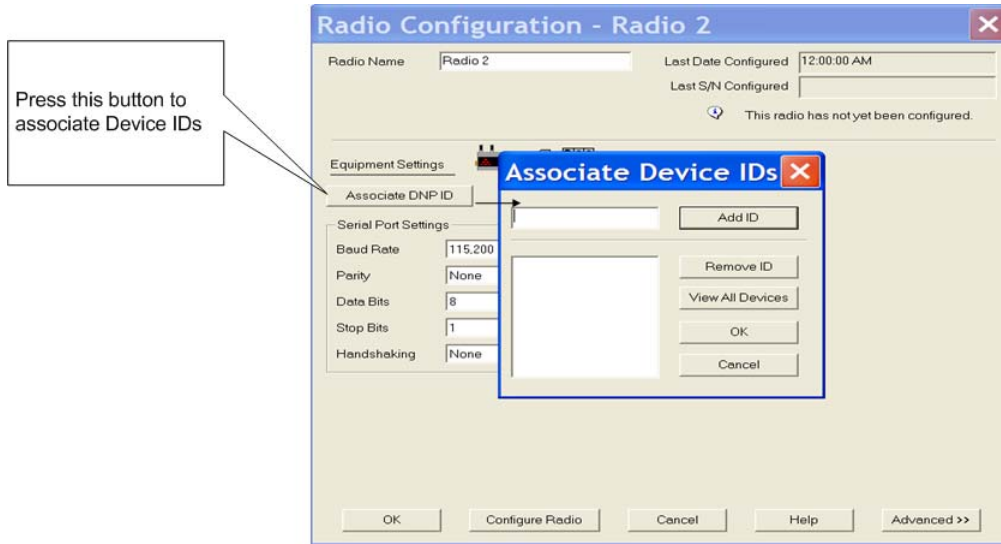
Mark your selections and choose OK.



## DNP Network

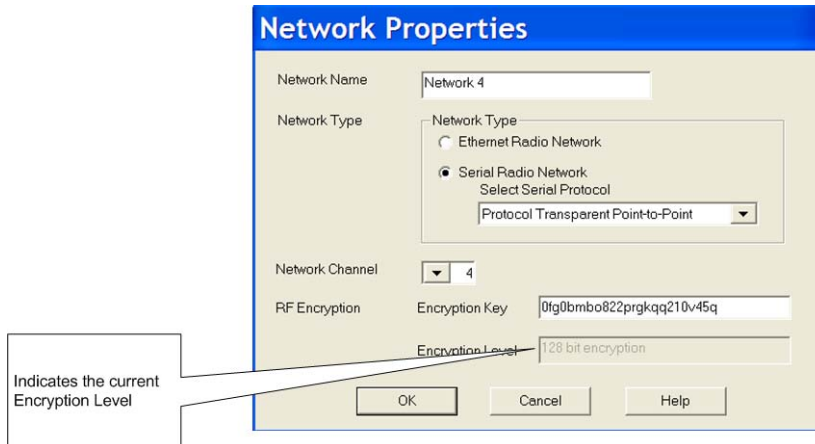
If you are setting up a DNP network, you will have to associate device IDs on the DNP network. The following screen appears when you press the Associate DNP ID button on the radio configuration screen.

Add your device IDs and choose OK.



## Encryption Keys

A random encryption key is generated for you. Enter a different key if desired. The encryption levels are None, 40 bits, or 128-bit encryption. You can view the encryption level on the Encryption Level field. Refer to the User Manual or online Help for details on encryption.



## If You Encounter Problems

- Make sure you have a link light illuminated on the remote RLX-FHS (the Link Light is always illuminated on a RLX-FHS Master). If not, repeat the procedure.
- Make sure the Configuration/App cable is connected properly to the PC and the Master radio.
- Use the RLX Diagnostics
- Make sure both the remote and master radios are on the same network channels and use the same encryption keys.
- If the above actions do not resolve the problem, contact ProSoft Technology Technical Support.

## What's Next?

Congratulations! Your wireless network is up and running. You now need to connect your wireless modems to your network devices. ProSoft Technology provides application connection instructions for numerous applications. Refer to the *RadioLinx Application Connection Guide* located on the RadioLinx Solutions CD-ROM.