Important Safety Information

The following information and warnings pertaining to the radio module must be heeded:

**WARNING – EXPLOSION HAZARD – DO NOT REPLACE ANTENNAS UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON-HAZARDOUS.**

A  "THIS DEVICE CONTAINS A TRANSMITTER MODULE, FCC ID: SDZ-WA-1. PLEASE SEE FCC ID LABEL ON BACK OF DEVICE."

B  "THIS DEVICE USES AN INTERNAL COMPACT FLASH RADIO MODULE AS THE PRIMARY RADIO COMPONENT. THE COMPACT FLASH RADIO MODULE DOES NOT HAVE AN FCC ID LABEL. THE COMPACT FLASH RADIO MODULE HAS NO USER SERVICEABLE PARTS."

C  "THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRED OPERATION."

D  "THIS DEVICE AND ANY RADIO ACCESSORY SOLD BY PROSOFT MUST BE INSTALLED BY AN AUTHORIZED PROFESSIONAL INDUSTRIAL RADIO SYSTEM INTEGRATOR. FURTHER, ONLY RADIO ACCESSORIES SOLD BY PROSOFT AND SPECIFICALLY TESTED FOR USE WITH THIS DEVICE MAY BE USED WITH THIS DEVICE."

E  "THE USER OF THIS EQUIPMENT CANNOT BE WITHIN 20 cm. FROM THE RADIATING ELEMENT DEVICE."

F  "CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT."

Industry Canada Requirements:

A  "THIS DEVICE HAS BEEN DESIGNED TO OPERATE WITH AN ANTENNA HAVING A MAXIMUM GAIN OF 24 dB. AN ANTENNA HAVING A HIGHER GAIN IS STRICTLY PROHIBITED PER REGULATIONS OF INDUSTRY CANADA. THE REQUIRED ANTENNA IMPEDANCE IS 50 OHMS."

B  "TO REDUCE POTENTIAL RADIO INTERFERENCE TO OTHER USERS, THE ANTENNA TYPE AND ITS GAIN SHOULD BE CHOSEN SUCH THAT THE EQUIVALENT ISOTROPICALLY RADIATED POWER (EIRP) IS NOT MORE THAN THAT REQUIRED FOR SUCCESSFUL COMMUNICATION."

C  "THE INSTALLER OF THIS RADIO EQUIPMENT MUST INSURE THAT THE ANTENNA IS LOCATED OR POINTED SUCH THAT IT DOES NOT_EMIT RF FIELD IN EXCESS OF HEALTH CANADA LIMITS FOR THE GENERAL POPULATION; CONSULT SAFETY CODE 6, OBTAINABLE FROM HEALTH CANADA."

**WARNING:**

This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

**Antenna spacing requirements for user safety**

It is important to keep the radio’s antenna a safe distance from the user. To meet the requirements of FCC part 2.1091 for radio frequency radiation exposure, this radio must be used in such a way as to guarantee at least 20 cm between the antenna and users. Greater distances are required for high-gain antennas. The FCC requires a minimum distance of 1 mW *cm2 power density from the user (or 20 cm, whichever is greater).

If a specific application requires proximity of less than 20 cm, the application must be approved through the FCC for compliance to part 2.1093.

The installer of this radio equipment must ensure that the antenna is located or pointed in such a way that it does not emit RF fields in excess of Health Canada limits for the general population; refer to Safety Code 6, obtainable from Health Canada.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.
**United States FCC & Industry Canada rules**

**Note:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: The device may not cause harmful interference, and it must accept any interference received, including interference that may cause undesired operation.

This Class A digital apparatus complies with Canadian ICES-003.

**CAUTION:** Changes or modifications not expressly approved by the manufacturer could void the user’s authority to operate the equipment.

**CSA C22.2 213-M1987 and N. American Standard ANSI/ISA 12.12.01 listing**

In accordance with Canadian Standard CSA C22.2 213-M1987 and ANSI Standard ISA 12.12.01, the RLXIB series radios have been UL listed for operation in Class I, Division 2, Groups A, B, C, and D Locations.

**THIS EQUIPMENT IS SUITABLE FOR USE IN CLASS I, DIVISION 2, GROUPS A, B, C, AND D, HAZARDOUS LOCATIONS ONLY IF INSTALLED IN AN APPROVED ENCLOSURE AND POWERED BY A CLASS 2 POWER SUPPLY.**

**WARNING:** EXPLOSION HAZARD! SUBSTITUTION OF ANY COMPONENTS MAY IMPAIR SUITABILITY FOR CLASS I, DIVISION 2.

**WARNING** – EXPLOSION HAZARD – Do not disconnect equipment unless power has been removed or the area is known to be non-hazardous.


**WARNING:** EXPLOSION HAZARD! DO NOT DISCONNECT EQUIPMENT UNLESS POWER HAS BEEN SWITCHED OFF OR THE AREA IS KNOWN TO BE NON HAZARDOUS.

**AVERTISSEMENT** - RISQUE D’EXPLOSION - AVANT DE DECONNECTER L’EQUIPEMENT, COUPER LE COURANT OU S’ASSURER QUE L’EMPLACEMENT EST DESIGNE NON DANGERUEX.

This radio has been designed to operate with the Omnidirectional Multi-Band Articulating Antenna, model A2502S-OA and having a maximum gain of 3dBi @ 2.4GHz and 4dBi @ 5.0GHz. Antennas not listed herein having a gain greater than that listed are strictly prohibited. The required antenna impedance is 50ohms nominal. This statement is in accordance with RSS-Gen Section 7.1.4.

The following label is applied to the radio to indicate that it is listed under ANSI/ISA standard 12.12.01 and CSA standard C22.2 213-M1987.

This Device contains a Radio Transmitter Module

**FCC ID:** RYK-WMIA199NI Canada IC5265A-IHN

Conforms to ANSI/ISA Std. 12.12.01 – Certified to CSA Std. C22.2 No. 213-M1987

Class I Division 2 10-24 Volts DC 6 Watts

48 Volts DC using the PoE Injector

Groups A, B, C & D

Max. Ambient: 60°C Temp Code T6

**Note:** The Temp. Code (Temperature Code) refers to the temperature of the rating of the RLXIB radio. The T6 code means that the maximum temperature of the unit did not exceed 135°C.
ATEX Approval

![ATEX Logo]

Ex nA nL IIC T6 X
-30°C <= Ta <=60°C

ProSoft Technology, Inc., Bakersfield, CA USA
Model: RLXIB
S/N: XXXXXXXXXXX

Caution: Read instructions before operating in Hazardous Areas

N. America
The Radio must be installed inside an IP54 enclosure which requires a special tool for access.

Explosive Atmosphere

Power, Input, and Output (I/O) wiring must be in accordance with the authority having jurisdiction

A. Warning – Explosion Hazard – Do not make or break connections in an explosive atmosphere.
B. Caution – Use only approved recommended power supply.
C. Warning - Power supply should be installed in a non-hazardous area.
D. Warning – DO NOT OPEN WHEN ENERGIZED.
E. These products are intended to be mounted in an IP54 enclosure. The devices shall provide external means to
prevent the rated voltage being exceeded by transient disturbances of more than 40%. This device must be used
only with ATEX certified backplanes.

European CE certification

The radio modem has been approved for operation under the RTT&E directive, passing the following tests: ETS300-826 (EMC), ETS300-328 (Functionality), and EN60950 (Safety).

The following is the appropriate label that is applied to the radio modem product line to indicate the unit is approved to operate with CE certification:

![CE Logo]

The following is the appropriate label that is applied to the radio modem product line shipping package to indicate the unit is approved to operate with CE certification:

AUS  B  DK  FIN  
F  D  GR  IRE  
I  LUX  NL  P  
E  S  UK

Note: Member states in the EU with restrictive use for this device are crossed out. This device is also authorized for
use in all EFTA member states (CH, ICE, LI, and NOR).

IMPORTANT: This device is a 2.4-GHz, low-power RF device intended for office and home use in all EU and EFTA member states, except in France where restrictive use applies.

EU Requirements

1. For outdoor use, France has a frequency restriction of 2.4GHz - 2.454GHz for an output power greater than 10mW
and below 100mW.
2. For outdoor use in France, the output power is restricted to 10mW in the frequency range of 2.454GHz –
2.4835GHz.
3. 5.15GHz – 5.35GHz is restricted to 200mW EIRP throughout the European Union.
Power over Ethernet Injector and Accessories "Warning"

The PoE Injector was not a part of the hazardous location or ATEX certification. Therefore, if an injector is used to power any of the radios, the PoE injector must be installed/located outside of any area that could be known to be hazardous. The AC power adaptor was not a part of the haz loc certification.

The RLXIB series were tested and certified to hazardous location and ATEX without any accessories included in this certification. Therefore, any accessory added to the RLXIB series radios must be used in an area known to be non-hazardous as they have not been subjected to hazardous location and ATEX certifications.

The preferred method of powering the radios is using the supplied power adaptor but if the PoE injector is used in an ordinary location "only", the PoE injector must be Listed. If the PoE injector is used instead of the supplied power adaptor, all of the wiring to and from the injector must be routed/installed inside building/plant and never routed/installed outside of the building/plant.

Your Feedback Please

We always want you to feel that you made the right decision to use our products. If you have suggestions, comments, compliments or complaints about the product, documentation, or support, please write or call us.

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RLXIB-ICN Setup Guide
3/30/2010
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Latin America: +1.281.298.9109
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1 Before You Begin

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The following components are included with your RLXIB-ICN radio, and are all required for installation and configuration.

**Important:** Before beginning the installation, please verify that all of the following items are present.

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Part Name</th>
<th>Part Number</th>
<th>Part Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RLXIB-ICN Radio</td>
<td>RLXIB-ICN</td>
<td>Industrial Client</td>
</tr>
<tr>
<td>1</td>
<td>Cable</td>
<td>085-1007</td>
<td>6 foot RS232 serial cable</td>
</tr>
<tr>
<td>1</td>
<td>Cable</td>
<td>RL-CBL025</td>
<td>5 foot Ethernet Straight-Thru Cable (Gray)</td>
</tr>
<tr>
<td>1</td>
<td>Antenna</td>
<td>A2502S-OA</td>
<td>2 dBi Omni RP-SMA articulating, 2.4/5GHz</td>
</tr>
<tr>
<td>1</td>
<td>Power Supply</td>
<td>RL-PS005-2</td>
<td>AC Power Adapter, 12V1.25A w/2 pin &amp; 4 plug Set</td>
</tr>
<tr>
<td>1</td>
<td>ProSoft Solutions CD</td>
<td></td>
<td>Contains sample programs, utilities and documentation for the RLXIB-ICN module.</td>
</tr>
</tbody>
</table>

If any of these components are missing, please contact ProSoft Technology Support for replacement parts.

In addition, you will need:

- A personal computer equipped with an Ethernet port
- IP address, Subnet Mask and Gateway information for each RLX device you plan to install. You can obtain this information from your system administrator.

**Note:** This Setup Guide is designed for use with an RLXIB-ICN Client radio. The radio will be configured to link to a third-party access point (AP).
1.1 Install the WirelessN Discovery Tool

1. Insert the ProSoft Solutions CD in your CD-ROM drive. On most computers, a menu screen will open automatically. If you do not see a menu within a few seconds, follow these steps:
   a. Click the Start button, and then choose Run.
   b. In the Run dialog box, click the Browse button.
   c. In the Browse dialog box, click "My Computer". In the list of drives, choose the CD-ROM drive where you inserted the ProSoft Solutions CD.
   d. Select the file prosoft.exe, and then click Open.
   e. On the Run dialog box, click OK.

2. On the CD-ROM menu, select **WirelessN Discovery Tool**. This action opens the Setup Wizard for WirelessN Discovery Tool.

3. Follow the instructions on the installation wizard to install the program with its default location and settings.

4. When the installation finishes, you may be prompted to restart your computer if certain files were in use during installation. The updated files will be installed during the restart process.
1.2 Start WirelessN Discovery Tool

1. Click the START button, and then navigate to PROGRAMS / PROSOFT TECHNOLOGY

![Image showing the start button and navigating to ProSoft Technology]

2. Click to start RADIOLINX WIRELESSN DISCOVERY TOOL.

![Image showing the Wireless Discovery Tool window]

The window lists all the radios your computer can access. The MAC ID number is essentially the serial number of the radio; this number is also printed on the side of the radio. If a radio listing does not appear in the window, click the SCAN button. If you still do not see a radio listing, see Troubleshooting in the RLXIB-ICN User Manual.
1.3 Plug In the Cables

You can configure the RLXIB-ICN using the Ethernet port on the radio. On the underside are three ports: Ethernet, Serial, and Power (10 to 24 VDC).

From left to right: Power connector, Serial port, and Ethernet port.

Use the Ethernet cable to configure the radio for the first time.

**Note:** After you plug in the power cable and Ethernet cable, the radio performs a startup procedure that includes a self-test, loading the main program, and initializing the radio. The front panel Power LED will turn Amber immediately after power has been applied. When the radio has finished the startup procedure, the power LED will turn Green.

After the startup procedure has completed successfully, the Power LED should be green, meaning that the radio has power. The Ethernet LED should also be green, meaning that the Ethernet connection is working. The RF Transmit and RF Receive LEDs should blink.

For information on making connections, see Radio Power Requirements and Cable Specifications in the RLXIB-ICN User Manual.
1.4 Detecting the Radio

After the radio has completed its startup procedure, the radio will appear in the WirelessN Discovery Tool window.

The window lists all the radios your computer can access. The MAC ID number is essentially the serial number of the radio; this number is also printed on the side of the radio. If a radio listing does not appear in the window, click the SCAN button on the toolbar. If you still do not see a radio listing, refer to Diagnostics and Troubleshooting in the RLXIB-ICN User Manual.
1.5 **Assign an IP Address**

You need the IP address to log into the RadioLinx Configuration Manager and configure the radio settings. If the radio is connected to a network with a DHCP server, the radio may already have an IP address assigned to it.

If a DHCP server is not available, or if you prefer to assign a static IP address, you can enter an IP address here.

**To assign an IP Address**

1. In WirelessN Discovery Tool, click to select the radio.

   **Tip:** If a radio listing does not appear in the window, click the Scan button on the toolbar. If you still do not see a radio listing, refer to Diagnostics and troubleshooting in the RLXIB-ICN User Manual.

2. Right-click on the radio to open a shortcut menu, and then choose **Assign IP**. This action opens the Assign IP Address dialog box.

![Assign IP Address dialog box](image)

3. Select one of the unused IP addresses, and then click **OK**.

   **Tip:** You must also assign a Gateway address. The Gateway assigned to your PC’s Ethernet port is offered as a suggestion. If your PC does not have a Gateway setting, the Gateway field in the Assign IP Address dialog will be blank. You will need to enter a Gateway before clicking OK.

For information, see Radio Access settings in the RLXIB-ICN User Manual.
1.6 Set up the Client Radio

A client radio allows a user to connect an Ethernet device to a wireless network through any 802.11n access point. Any Ethernet device that has an RJ45 Ethernet port can, in effect, be transformed into an 802.11n wireless client by attaching the radio. Only a single device can be connected to a Client radio. Do not connect to more than one Ethernet device (using a switch or hub). Use a Client radio if you need to connect to another brand 802.11n access point.

To connect a device to a Client radio, try using the Auto setting. To test whether the Auto setting will work:

1. Connect the cable between the device and the radio.
2. Turn ON the radio power, or cycle the power if the radio is already on.
3. Turn ON the device. Watch the radio to see if it initializes. The Auto setting will work if the device advertises its MAC ID to the radio.

To configure the radio, double click on the radio (Radio1) in the WirelessN Discovery Tool window. This action opens a web browser (for example Microsoft Internet Explorer or Firefox) and loads the Radio’s web configuration interface.

Administrator login
With administrative privileges, you can view or modify the configuration of the access point.

Enter the user name in lower case, no quotes.
- The default administrator user name is "admin"
- The default password is "password"
- The user name and password are case sensitive

Guest login
With guest privileges, you can view the existing configuration, but you cannot make changes.

Enter the user name in lower case, no quotes
- The default guest user name is "guest"
- The default password is "password"
Important: You should change the default user names and passwords, write down the settings, and keep a copy in a safe place, to protect the radio from being reconfigured or viewed by unauthorized users.

Note: The SSID and Security of the Client radio must match the settings of the Access Point radio you want to link to. Depending on the Security setting, the WPA/WPA2 Key or WEP Key must match that of the Access Point as well.

To configure a Client radio, make the following changes to the web configuration form:

**Overall Settings**

- **Unit Name**: Enter a unique name for the radio.
- **Obtain IP Address by**: If a DHCP (Dynamic Host Control Protocol) server is configured on your local area network, the DHCP server can assign IP addresses automatically.

  If you prefer to assign a Static (Fixed) IP address, select **STATIC**, and then enter the IP Address, Subnet Mask and Default Gateway in the Overall area of the Radio web configuration form.
**Important:** If you intend to assign IP addresses manually, you must not duplicate an IP address that is already in use on your network. If you are not sure what IP addresses are available, ask your network administrator for assistance.

- **SSID:** Assign a network name (SSID) of up to 32 characters. The radio uses this name in all network references. The SSID of the Client radio must match that of the Access Point radio you want to connect to.

**Important:** The RLXIB-ICN radio is supplied with a dual-band antenna that supports both frequency ranges. When using a different antenna with the RLXIB-ICN radio, you must choose a channel and frequency range supported by the antenna.

- **Security:** Encryption scrambles data so that only intended viewers can decipher and understand it. Although "Open" is an available Security setting, ProSoft Technology strongly recommends encrypting all data sent and received from every radio on your network with WPA2, to help prevent your data from being intercepted and decoded. The Security setting must match that of the Access Point radio you want to connect to.

- **WPA/WPA2 Key:** If using a WPA or WPA2 Security setting enter the WPA Passphrase that is in the Access Point radio that you want the Client radio to link to. The WPA/WPA2 key is a pass phrase of between eight and 63 normal keyboard characters. This phrase automatically generates an encryption key of 128 hexadecimal characters. The default pass phrase is "passphrase" (lower case, no quotes).

- **WEP Key:** If using WEP as the Security setting enter the WEP Key that is in the Access Point radio that you want the Client radio to link to.

For more information on encryption, see Security settings in the RLXIB-ICN User Manual.

**Note:** Network SSID, WPA/WPA2 Key, WEP Key are case-sensitive.

If the radio’s RF LEDs do not show consistent activity after a few minutes, then you may need to modify the radio’s client settings. Click the Specify radio button, determine the MAC ID of the Ethernet device wired to the radio, and type the ID into the Client MAC field.

Client devices are identified in the **ROLE** column in the WirelessN Discovery Tool.
1.7 Save the Radio Configuration

Before browsing to other pages in the Radio Configuration window, you must apply your changes. Click **APPLY** to save your configuration and restart the radio.

**Note:** To discard your changes and start over, click **CLEAR**.
2 Adding and Configuring Additional Client Radios

At this point you should attach and configure any additional ICN Client radios you will be using. Ensure that any new Client radios use a unique name, but the same Network SSID and Security settings as your Access Point radio.
3 Verify Communication

The Roles column identifies the radio as a Client.

Observe the LEDs to ensure good link quality, as explained in LED display (page 24).
4 If You Encounter Problems

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4.1 Check the Ethernet cable
If you connect a radio and the Ethernet LED does not light on the radio, there may be a problem with the Ethernet cable. Verify that the cable is plugged into the radio at one end, and to an Ethernet hub or a 10/100 Base-T Ethernet switch at the other end.

Note: The RLXIB-ICN radio auto-detects the Ethernet connection type, and does not require a crossover cable for direct connection to a PC.
4.2 LED Display

The RLXIB-ICN front panel includes a set of LEDs that indicate the radio’s status:

<table>
<thead>
<tr>
<th>LED</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>This green LED indicates that the radio has power.</td>
</tr>
<tr>
<td>RF Transmit</td>
<td>This yellow LED indicates RF transmission.</td>
</tr>
<tr>
<td>RF Receive</td>
<td>This green LED indicates RF reception.</td>
</tr>
<tr>
<td>Serial</td>
<td>Reserved for future use.</td>
</tr>
<tr>
<td>Ethernet</td>
<td>If this green LED is on, the Ethernet cable is connected. If this LED is flashing, an Ethernet packet is being transmitted or received.</td>
</tr>
<tr>
<td>Signal Strength</td>
<td>If only one of these three LEDs is on, then the radio is linked. If two LEDs are on, the radio’s signal strength is fair. If all three LEDs are on, the signal strength is good.</td>
</tr>
</tbody>
</table>

After you first plug in the power cable and Ethernet cable to the radio, the Power/Status LED should be green, meaning that the radio has power. If the Ethernet LED is green, then the Ethernet connection is working. The RF Transmit and RF Receive LEDs should blink.

All three LEDs will blink just after the radio links to the Access Point signal, but before it has been fully authenticated. Normally you will see this last only a few seconds. If it blinks longer, or never turns on, it usually means the encryption keys are not correct.
4.3 Retrieve the Default Password

If you forget your password, you will be unable to change the radio settings. You can retrieve the default password to use the software again, but you will lose all the settings you programmed before. To retrieve the default password and return the radio to its default settings, follow these steps:

1. Turn off power to the radio.
2. Locate the reset hole, located to the left of the power connector.

3. Turn on power to the radio.
4. Insert the end of a paperclip or similar device into the hole, and wait for the Power LED to turn green.
5. When the Power LED turns green, press and hold the reset button for at least five seconds.
6. The radio will reload its default settings, including the password. You should now be able to log in using the default password, which is "password".
4.4 Starting Over

If necessary, you can always restore the default settings that were present when
the radio was manufactured.

1. Open the Radio Configuration/Diagnostic Utility
2. Log into the radio
3. Click the Utilities button, and then click the Default button.

This will remove all changes you have made to the radio configuration,
including addressing, naming, and security settings.
5 What's Next?

Congratulations! Your Client radio is up and running. ProSoft Technology provides application connection instructions for numerous applications. Refer to the RadioLinx Application Connection Guide located on the RadioLinx Solutions CD.