

## RadioLinx® 802.11n Weatherproof Dual Industrial Hotspot RLXIB-IH2N-W

The RadioLinx 802.11n Industrial Hotspot series provides wireless solutions for plant-floor and field automation applications. The Industrial Hotspot family provides the rugged performance and ease of deployment required for industrial applications. These 802.11n Hotspots use multiple-input/multiple-output (MIMO) technology supporting up to three antennas for each of its two radios. This allows fast data rates up to 300Mbps, providing advanced performance in industrial environments. The Dual Weatherproof RLXIB-IH2N-W is a great selection for use as a repeater, maintaining full bandwidth from each radio, repeating traffic without sacrificing speed. It also has an IP67 rating, making it water and dust-tight for use in all weather and mining applications.

More than just a new 802.11 technology, the RLXIB-IHN family adds RADIUS security for centralized management of security policies, VLANs for network traffic segmentation, and data prioritization while continuing to include the industrial wireless features that have made previous Industrial Hotspots successful.



Features	Benefits
<b>Plant-wide Network Integration</b>	
300 Mbps RF Rates (MIMO)	<ul style="list-style-type: none"> <li>Multicast, I/O &amp; Produce/Consume messaging at packet rates &lt;1ms</li> <li>Video Monitoring &amp; Automation Control Simultaneously</li> </ul>
Dual Radio	<ul style="list-style-type: none"> <li>Extend range without sacrificing speed</li> <li>Segment Control Data on 5 GHz, mobile worker access on 2.4 GHz</li> </ul>
VLAN	<ul style="list-style-type: none"> <li>Separate Automation Networks &amp; LAN Access</li> <li>Allow Mobile Workers access to Network Resources</li> </ul>
Quality of Service	<ul style="list-style-type: none"> <li>Prioritize Control Data, Video &amp; Voice</li> <li>Support for Voice over IP (VoIP) phones</li> </ul>
RADIUS Security	<ul style="list-style-type: none"> <li>Centralized Management of Wireless Security Policies</li> </ul>
<b>Rugged Industrial Performance</b>	
Ease of Deployment	<ul style="list-style-type: none"> <li>Single webpage setup by field personnel</li> <li>Simple system design with ProSoft Wireless Designer</li> </ul>
Reliable I/O Message Delivery	<ul style="list-style-type: none"> <li>Multicast I/O messages between PLCs transferred using wireless acknowledgements</li> <li>IGMP Snooping &amp; Multicast Filtering enhance reliability</li> </ul>
Industrial Grade	<ul style="list-style-type: none"> <li>Usable in Class I, Division 2 hazardous locations</li> <li>Designed for high vibration environments</li> </ul>
-40°C to +75°C Operation	<ul style="list-style-type: none"> <li>Operation in all outdoor conditions</li> <li>Rugged construction withstands all operating environments</li> </ul>
IP67 Rating	<ul style="list-style-type: none"> <li>Watertight for use in all weather conditions</li> <li>Dust-tight for use in mining applications</li> </ul>

### Configuration

RadioLinx WirelessN Discovery Tool is a configuration and monitoring tool for the RadioLinx 802.11n Weatherproof Dual Industrial Hotspot radios. Use RadioLinx WirelessN Discovery Tool to view your network topology, assign IP addresses to radios for configuration, monitor network diagnostics, update radio firmware and detect the presence of other vendors' 802.11 radios on the network.

## Radio Specifications

Frequency Band	Frequency	Channel
(Varies by country)	2.412 to 2.462 GHz (FCC)	1-11
	2.412 to 2.472 GHz (ETSI)	1-13
	5.150 to 5.250 GHz (FCC/ETSI)	36 – 48
	5.250 to 5.350 GHz (FCC/ETSI)	52 – 64
	5.470 to 5.725 GHz (FCC/ETSI)	100 – 140
	5.725 to 5.850 GHz (FCC)	149 - 165
Standards 802.11	1n, 802.11a & 802.11g (Legacy) 802.11h (DFS), 802.11i (RADIUS), 802.11e (QoS) 802.11Q (VLAN), 802.3af (PoE), IGMPv2	
Transmit Power (Programmable)	22 dBm @ MCS0, MCS8 (802.11an/gn)	
*Subject to Regional Regulatory Limits	17 dBm @ MCS7, MCS15 (802.11an/gn) 22 dBm @ 6 Mbps (802.11a/g) 17 dBm @ 54 Mbps (802.11a/g)	
	Antenna Impact: 3 Antennas/ MIMO: Use values above 2 Antennas: Subtract 3 dB from values above 1 Antenna: Subtract 5 dB from values above	
Channel data rates (802.11n)	MCS0 – MCS15, 1-2 Channels & 1-2 Streams	
	<b>1 Channel</b>	<b>2 Channels</b>
	7 Mbps	15 Mbps
	72 Mbps	150 Mbps
	14 Mbps	30 Mbps
	144 Mbps	300 Mbps
Channel data rates (802.11a/g)	802.11a/g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps	
Receiver Sensitivity (Typical)	-92 dBm @ MCS0, MCS8 (802.11an/gn) -70 dBm @ MCS7, MCS15 (802.11an) -74 dBm @ MCS7, MCS15 (802.11gn) -92 dBm @ 6 Mbps (802.11a/gn) -74 dBm @ 54 Mbps (802.11a) -78 dBm @ 54 Mbps (802.11g)	
Security	WPA2 Enterprise – 802.11i AES w/ RADIUS WPA2 Personal – 802.11i AES w/ Passphrase Legacy WPA TKIP, WEP support & MAC ID filter	
<b>Physical</b>		
Enclosure	Die-cast aluminum with pole mount	
Size	180 x 295 x 70 mm (W x H x D) 7 x 11.5 x 2.75 inches	
Ethernet Ports	Two 10/100 Base-T connector, shielded M12, IEEE 802.3, 802.3u, 802.3x	
Antenna Port	(6) N connectors	
Weight	4.5 lbs (2 kg)	
<b>Environmental</b>		
Operating Temperature	-40° C to +75° C	
Humidity	To 100% RH, non-condensing	
External Power	10 to 24 VDC	
PoE Injector	PoE Powered Device (non-standard)	
Average Power	<13W	

## Agency Approvals & Certifications

### Wireless Approvals

Visit our web site at [www.prosoft-technology.com](http://www.prosoft-technology.com) for current wireless approval information.

### Hazardous Locations

ANSI/ISA	12.12.01 Groups A, B, C, and D
CSA	C22.2 No. 213-M1987
ATEX	EN60079-0 and EN60079-15

### Ordinary Locations

CSA/CB	EN60950 N. America and W. Europe
FCC/IC	Part 15, Class A; ICES-03
ETSI	ETSI EN300 328, ETSI EN301 893



## Additional Products

ProSoft Technology® offers a full complement of hardware and software solutions for a wide variety of industrial communication platforms.

For a complete list of products, visit our web site at:  
[www.prosoft-technology.com](http://www.prosoft-technology.com)

## Ordering Information

To order this product, please use the following:

### RadioLinx® 802.11n Weatherproof Dual Industrial Hotspot

RLXIB-IH2N-W

To place an order, please contact your local ProSoft Technology distributor. For a list of ProSoft Technology distributors near you, go to:  
[www.prosoft-technology.com](http://www.prosoft-technology.com)  
and select Distributors from the menu.

Place your order by email or fax to:

North American / Latin American /  
Asia Pacific  
[orders@prosoft-technology.com](mailto:orders@prosoft-technology.com)  
fax to +1 661.716.5101

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