

RadioLinx 802.11n Dual Industrial Hotspot RLXIB-IH2N

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 3 antennas. This allows fast data rates up to 300Mbps, providing advanced performance in industrial environments. The Dual Radio (RLXIB-IH2N) is a great selection for use as a repeater maintaining full bandwidth from each radio, repeating traffic without sacrificing speed.

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

Configuration

RadioLinx WirelessN Discovery Tool is a configuration and monitoring tool for the RadioLinx 802.11n 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 GHz to 2.462 GHz (FCC)	1 to 11	
	2.412 GHz to 2.472 GHz (ETSI)	1 to 13	
	5.150 GHz to 5.250 GHz (FCC/ETSI)	36 to 48	
	5.250 GHz to 5.350 GHz (ETSI)	52 to 64	
	5.470 GHz to 5.580 GHz (ETSI)	100 to 116	
	5.680 GHz to 5.700 GHz (ETSI)	136 to 140	
	5.725 GHz to 5.850 GHz (FCC)	149 to 165	
Standards	802.11n, 802.11a & 802.11g (Legacy) 802.11h (DFS), 802.11i (RADIUS), 802.11e (QoS) 802.1Q (VLAN), 802.3af (PoE), IGMPv2		
Transmit Power (Programmable)	22 dBm @ MCS0, MCS8 (802.11an/gn) 17 dBm @ MCS7, MCS15 (802.11an/gn)		
*Subject to Regional Regulatory Limits	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 3dB from values above 1 Antenna: Subtract 5dB from values above		
Channel data rates (802.11n)	MCS0 through MCS15, 1 Channel or 2 Channels with 1 Stream or 2 Streams		
	1 Channel	2 Channels	
	7 Mbps	15 Mbps	
	72 Mbps	150 Mbps	
	14 Mbps	30 Mbps	
	144 Mbps	300 Mbps	
		Rate	
		Streams	
		MCS0	1 Stream
		MCS7	
		MCS8	2 Streams
		MCS15	
Channel data rates (802.11a/g)	802.11a/g: 54, 48, 36, 24, 18, 12, 9, or 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 (802.11an/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		
Physical			
Enclosure	Extruded aluminum with DIN and panel mount		
Size (Width by Height by Depth)	7.75 inches x 4.75 inches x 2.4 inches 195 mm x 117 mm x 60 mm		
Shock	IEC 60068 2-6 (20g, 3-Axis)		
Vibration	IEC 60068 2-27 (5g, 10Hz to 150Hz)		
Ethernet Ports	Two 10/100 Base-T connector, shielded RJ45 IEEE 802.3, 802.3u, 802.3x		
Antenna Port	(6) RP-SMA connector		
Weight	1.8 lbs (825 g)		
Environmental			
Operating Temperature	-40°F to +167 F (-40°C to +75°C)		
Humidity	Up to 100% RH with no condensation		
External Power	10 Vdc to 24 Vdc		
PoE Injector	PoE Powered Device (non-standard)		
Average Power	less than 13 Watts		



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

Ordering Information

To order this product, please use the following:

RadioLinx 802.11n Dual Industrial Hotspot

RLXIB-IH2N

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 and select Distributors from the menu.

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Specifications subject to change without notice.

Agency Approvals & Certifications

Wireless Approvals

Visit our web site at www.prosoft-technology.com for current wireless approval information.

Hazardous Locations

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

Ordinary Locations

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



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