

DATASHEET

DISCONTINUED RadioLinx[®] 802.11n Industrial Client RLXIB-ICN

RadioLin

The RadioLinx 802.11n Industrial Hotspot series provides enterprise-class technology, optimized for rugged industrial performance and easy deployment in the field. These 802.11n Hotspots use multiple-input/multiple-output (MIMO) technology supporting up to 3 antennas. This allows fast data rates up to 300Mbps with EtherNet/IP Requested Packet Interval (RPI) times as low as 2 ms. The Industrial Client (RLXIB-ICN) provides connectivity to any third-party Access Point. It is also compatible with RadioLinx 802.11a/b/g radios.

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
Enterprise Class Technology	
300 Mbps RF Rates (MIMO)	 Multicast, I/O & Produce/Consume messaging at packet rates <1ms Video Monitoring & Automation Control Simultaneously
VLAN	 Separate Automation Networks & LAN Access Allow Mobile Workers access to Network Resources
Quality of Service	 Prioritize Control Data, Video & Voice Support for Voice over IP (VoIP) phones
RADIUS Security	Centralized Management of Wireless Security Policies
Rugged Industrial Performance	
Ease of Deployment	 Single webpage setup by field personnel WirelessN Discovery Tool - view network topology, assign IP addresses for configuration, monitor network diagnostics, update radio firmware, and detect all 802.11 radios on the network, including third-party wireless devices ProSoft Wireless Designer for planning and specifying wireless networks
Reliable I/O Message Delivery	 Multicast I/O messages between PLCs transferred using wireless acknowledgements IGMP Snooping & Multicast Filtering enhance reliability
Industrial Grade	 Usable in Class I, Division 2 hazardous locations Designed for high vibration environments
-40°C to +75°C Operation	 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 Industrial Client 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	
<u> </u>	5.725 to 5.850 GHz (FCC)	149 - 165	
Standards	802.11n, 802.11a & 802.11g (Legac		
	802.11h (DFS), 802.11i (RADIUS), 802.11e (QoS)		
Transmit Power	802.1Q (VLAN), 802.3af (PoE), IGM 22 dBm @ MCS0, MCS8 (802.11an		
(Programmable)			
*Subject to Regional	17 dBm @ MCS7, MCS15 (802.11an/gn) 22 dBm @ 6 Mbps (802.11a/g)		
Regulatory Limits	17 dBm @ 54 Mbps (802.11a/g)		
	Antenna Impact:		
	3 Antennas/ MIMO: Use values above		
	2 Antennas: Subtract 3 dB from valu		
	1 Antenna: Subtract 5 dB from value		
Channel data rates (802.11n)	MCS0 – MCS15, 1-2 Channels & 1-2	2 Streams	
	1 Channel 2 Channels Rate	Streams	
	7 Mbps 15 Mbps MCS0	1 Stream	
	72 Mbps 150 Mbps MCS7		
	14 Mbps 30 Mbps MCS8	2 Streams	
	144 Mbps 300 Mbps MCS15	_	
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 (802.11ar		
	-70 dBm @ MCS7, MCS15 (802.11a	an)	
	-74 dBm @ MCS7, MCS15 (802.11g	gn)	
	-92 dBm @ 6 Mbps (802.11an/gn)		
	-74 dBm @ 54 Mbps (802.11a)		
2	-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 &		
Dhunding	Legacy WIA INI, WEI Support &		
Physical			
Enclosure	Extruded aluminum with DIN and pa	nel mount	
Size	115 x 117 x 45 mm (W x H x D)		
Eth ann at Danta	4.5 x 4.6 x 1.75 inches		
Ethernet Ports	One 10/100 Base-T connector, shiel	aea KJ45	
Antonno Dort	IEEE 802.3, 802.3u, 802.3x		
Antenna Port	(3) RP-SMA connector		
Weight	1.1 lbs (499g)		
Environmental			
Operating Temperature	-40° C to +75° C		
Humidity	To 90% RH, non-condensing		
	10 to 24 VDC		
External Power	10 10 24 000		
External Power PoE Injector	802.3af PoE Powered Device		

Agency Certifications

Wireless Approvals

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

Hazardous Locations

ANSI/ISA	12.12.01
CSA	C22.2 No. 213-M1987
ATEX	EN60079-0 and EN60079-15
Ordinary Locations	
CE	EN60950 N. America & W. Europe
FCC/IC	Part 15, Class A
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

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Specifications subject to change without notice.