

DATASHEET

DISCONTINUED RadioLinx[®] 802.11n Industrial Hotspot

RLXIB-IHN

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.

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 < 1 ms 		
	 Video Monitoring and 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	 EtherNet/IP I/O Messaging using v17 and earlier firmware 		
	 Implicit messaging support between any Rockwell device 		
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 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 GHz (FCC)	1-11	
(valies by country)		2 GHz (ETSI)	1-13	
		0 GHz (FCC/ETS		
		60 GHz (FCC/ETS		
		5 GHz (FCC/ETS		
		0 GHz (FCC)	149 - 165	
Wireless Standards				
		.11g (Legacy)		
Transmit Power	22 dBm @ M	CS0, MCS8 (802	.11an/gn)	
(Programmable)		ICS7, MCS15 (80		
*Subject to Regional	22 dBm @ 6 Mbps (802.11a/g)			
Regulatory Limits	17 dBm @ 54 Mbps (802.11a/g)			
	Antenna Imp			
		MIMO: Use value		
		Subtract 3 dB fro		
		Subtract 5 dB from		
Channel data rates (802.11n)		S15, 1-2 Channel		
	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)	-	4, 48, 36, 24, 18,		
Receiver Sensitivity (Typical)	-92 dBm @ MCS0, MCS8 (802.11an/gn)			
		ACS7, MCS15 (8		
		ACS7, MCS15 (8		
		Mbps (802.11an		
		54 Mbps (802.11a		
Security	-78 dBm @ 54 Mbps (802.11g) WPA2 Enterprise – 802.11i AES w/ RADIUS			
Security	WPA2 Enterprise – 602.111 AES w/ RADIOS WPA2 Personal – 802.111 AES w/ Passphrase			
		TKIP, WEP supp		
	MAC ID filter		John	
Physical				
Enclosure	Extruded alu	minum with DIN a	and panel mount	
Size		45 mm (W x H x	-	
	4.5 x 4.6 x 1.		,	
Ethernet Ports	One 10/100 Base-T connector, shielded RJ45			
	IEEE 802.3, 8	802.3u, 802.3x		
Antenna Port	(3) RP-SMA			
Weight	1.1 lbs (499 g	g)		
Environmental				
Operating Temperature	-40° C to +75	5° C		
Humidity	To 90% RH,	non-condensing		
External Power	10 to 24 VDC)		
PoE Injector		Powered Device		
Average Power	<9W	20100		

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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