

RadioLinx® Industrial Hotspot RLXIB-IHW-66

The RadioLinx® Industrial Hotspot (RLXIB-IHW-66) provides high speed industrial wireless Ethernet communications between Ethernet devices such as PLCs, I/O, and operator interfaces while serving as a repeater/bridge for other hotspots, and an access point for wireless clients such as Laptops and PDAs.



Features	Benefits
Conforms to IEEE 802.11a/b/g	<ul style="list-style-type: none"> ◆ Open standard protects wireless network investment ◆ High speed (54 Mbps), low latency communications ◆ Radio-based IGMP snooping/querying to filter multicast industrial Ethernet maximizing bandwidth
Rugged and Powerful	<ul style="list-style-type: none"> ◆ IP-66 rated metal enclosure, industrial operating temperatures, vibration and shock resistant ◆ Certified for use in hazardous locations ◆ Transmit power and radio frequencies are programmable for use globally
Data and Network Security	<ul style="list-style-type: none"> ◆ Cryptographic strength security with WPA2/802.11i-128/192/256 bit AES encryption and CCM integrity check ◆ Limit access to approved device MAC IDs ◆ Monitors RF environment for approved/rogue radios
Flexible and Reliable	<ul style="list-style-type: none"> ◆ Power over Ethernet (PoE) enables radio placement near antenna to reduce antenna cable costs and improve wireless network performance ◆ Single radio operates as an access point and repeater/bridge and client ◆ Automatic network configuration (can be prioritized or fixed) with self-healing network and master redundancy for reliable large networks (e.g. SCADA)
Easy to Configure and Monitor	<ul style="list-style-type: none"> ◆ Built-in web server for browser-based configuration and remote diagnostics ◆ Included OPC Server for HMI-based RF network diagnostics

Configuration

RadioLinx IH Browser is a configuration and monitoring tool for the RadioLinx Industrial Hotspot™ radios. Use RadioLinx IH Browser 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.

Specifications

Frequency Band (Varies by Country)	802.11b/g: 2.412GHz to 2.462GHz (FCC) 2.412GHz to 2.472GHz (ETSI) 802.11a: 5.150GHz to 5.250GHz (FCC/ETSI) 5.725GHz to 5.850GHz (FCC)
Wireless Standards	802.11a, 802.11b, 802.11g, 802.11i
Transmit Power (Programmable)	Up to 50 mW
Channel data rates (Modulation)	802.11b: 11, 5.5, 2, 1 Mbps (DSSS - BPSK, QPSK, CCK) 802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps (OFDM) 802.11a: 54, 48, 36, 24, 18, 12, 9, 6 Mbps (OFDM)
Receiver Sensitivity (Typical)	-95 dBm @ 1 Mbps -90 dBm @ 11 Mbps -82 dBm @ 24 Mbps -75 dBm @ 54 Mbps
Channels Selection	1 to 13 (802.11b/g) 36, 40, 44, 48, 149, 153, 157, 161, 165 (802.11a)
Security	WPA2/802.11i with 128/192/256 bit AES-CCM Legacy WPA TKIP, WEP support MAC ID filter Admin password

Physical

Enclosure	IP-66 rated die-cast aluminum with pole mount hardware 6 = Dust tight - No ingress of Dust 6 = Protected against water jets against the enclosure from any direction shall have no harmful effects.
Size (Width by Height by Depth)	213 mm x 178 mm x 56 mm 8.4 inches x 7.0 inches x 2.2 inches
Vibration	IEC 60068 2-6 (20g, 3-Axis)
Shock	IEC 60068 2-27 (5g, 10Hz to 150Hz)
Ethernet Ports	Water/Dust Tight M12 connector IEEE 802.3, 802.3u, 802.3x, 802.3af (RLXIB-IHW-66-A, RLXIB-IHW-66-E) RJ45 via 1/2 Inch NPT, and 1/2 Inch NP3 hole (RLXIB-IHW-66C-A)
Antenna Ports	(2) N-type female connectors
Weight	2.4 lb (1.1 kg)

Environmental

Operating Temperature	-40°C to +75°C (-40°F to +167°F)
Humidity	Up to 100% RH, without condensation
External Power	802.3af PoE Power Injector (Input: 100 Vac to 240 Vac; Output 48 Vdc)
Average Power	less than 6 W



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® Industrial Hotspot

RLXIB-IHW-66-A – Americas – FCC

RLXIB-IHW-66-E – EMEA – ETSI

RLXIB-IHW-66C-A

North America Hazardous Locations

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.

Place your order by email or fax to:

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Specifications subject to change without notice.

Regulatory Approvals

Wireless Approvals

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

Ordinary Locations:

CSA/CB	EN60950 N. America & W. Europe
GOST-R	ME06 (for controllers and radios)
FCC/IECS	Part 15, Class A and ICES-03

Hazardous Locations

ATEX	60079-0 & 60079-15 Category 3, Zone 2
CSA	C22.2 No. 213-M1987
cULus	ISA 12.12.01 Class I Division 2, Groups A, B, C, D T-6



NKRDCA82



243333



ME06



E183151



Industry
Canada



4441A-DCMA82

N136

Outdoor RLX Statement

The materials required to make a proper earth ground are defined by local regulations and must be obtained locally to ensure that the correct safety environment is achieved. The earth ground wire run should be kept as short as possible. All field wiring for the installation of the radio shall be in accordance with section 4 of NEC 501.10, suitable for Class I, Div 2 installations.



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