

## RadioLinx<sup>®</sup> Industrial Hotspot RLXIB-IHW-66D



The RadioLinx<sup>®</sup> 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"> <li>Open standard protects wireless network investment</li> <li>High speed (54 Mbps), low latency communications</li> <li>Radio-based IGMP snooping/querying to filter multicast industrial Ethernet maximizing bandwidth</li> </ul>
Rugged and Powerful	<ul style="list-style-type: none"> <li>IP-66 rated metal enclosure, industrial operating temperatures, vibration and shock resistant</li> <li>Certification for use in hazardous locations</li> <li>Transmit power and radio frequencies programmable for use globally</li> </ul>
Data and Network Security	<ul style="list-style-type: none"> <li>Cryptographic strength security with WPA2/802.11i-128/192/256 bit AES encryption and CCM integrity check</li> <li>Limit access to approved device MAC IDs</li> <li>Monitors RF environment for approved/rogue radios</li> </ul>
Flexible and Reliable	<ul style="list-style-type: none"> <li>Power over Ethernet (PoE) enables radio placement near antenna to reduce antenna cable costs and improve wireless network performance</li> <li>Single radio operates as an access point and repeater/bridge and client</li> <li>Automatic network configuration (can be prioritized or fixed) with self-healing network and master redundancy for reliable large networks (e.g. SCADA)</li> </ul>
Easy to Configure and Monitor	<ul style="list-style-type: none"> <li>Built-in web server for browser-based configuration and remote diagnostics</li> <li>Included OPC Server for HMI-based RF network diagnostics</li> </ul>
Backed by ProSoft Technology	<ul style="list-style-type: none"> <li>Industrial data communications experts who understand your protocols, devices, and applications</li> <li>Indoor/outdoor radio network design assistance - accessory selection, path studies, and site survey</li> <li>Three year standard warranty</li> </ul>

## Configuration

RadioLinx IH Browser is a configuration and monitoring tool for the RadioLinx Industrial Hotspot<sup>™</sup> 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

## Radio

Frequency Band (Varies by Country)	<b>802.11b/g:</b> 2.412 to 2.462 GHz (FCC) 2.412 to 2.472 GHz (ETSI) <b>802.11a:</b> 5.150 to 5.250 GHz (FCC/ETSI) 5.725 to 5.850 GHz (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.
Overall Dimensions	213 x 178 x 56 mm / 8.4 x 7.0 x 2.2 inches (W x H x D)
Ethernet Ports	Water/Dust Tight M12 connector IEEE 802.3, 802.3u, 802.3x, 802.3af
Antenna Ports	(2) N-type female connectors
Weight	2.4 lb (1kg)

## Environmental

Operating Temperature	-30° C to +60° C
Humidity	To 90% RH, non-condensing
External Power	802.3af PoE (10-24VDC PoE Injector included)
Average Power	<6W

## Regulatory Approvals

### Wireless Approvals

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

### Ordinary Locations:

ANSI/CSA	60950-1/C22.1 No. 0-M91
FCC/IECS	Part 15, Class A/-003

### Hazardous Locations

ATEX	60079-0 & 60079-15 Category 3, Zone 2
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## 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® Industrial Hotspot

RLXIB-IHW-66D-E - EMEA - ETSI

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

Europe / Middle East / Africa  
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Specifications subject to change without notice.



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