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

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
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<tr>
<td>Conforms to IEEE 802.11a/b/g</td>
<td>♦ Open standard protects wireless network investment</td>
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<td>♦ High speed (54 Mbps), low latency communications</td>
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<td>♦ Radio-based IGMP snooping/querying to filter multicast industrial Ethernet maximizing bandwidth</td>
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<td>Rugged and Powerful</td>
<td>♦ IP-66 rated metal enclosure, industrial operating temperatures, vibration and shock resistant</td>
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<td>♦ Certification for use in hazardous locations</td>
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<td>♦ Transmit power and radio frequencies programmable for use globally</td>
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<td>Data and Network Security</td>
<td>♦ Cryptographic strength security with WPA2/802.11i-128/192/256 bit AES encryption and CCM integrity check</td>
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<td>♦ Limit access to approved device MAC IDs</td>
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<td>♦ Monitors RF environment for approved/rogue radios</td>
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<td>Flexible and Reliable</td>
<td>♦ Power over Ethernet (PoE) enables radio placement near antenna to reduce antenna cable costs and improve wireless network performance</td>
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<td>♦ Single radio operates as an access point and repeater/bridge and client</td>
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<td>♦ Automatic network configuration (can be prioritized or fixed) with self-healing network and master redundancy for reliable large networks (e.g. SCADA)</td>
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<td>Easy to Configure and Monitor</td>
<td>♦ Built-in web server for browser-based configuration and remote diagnostics</td>
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<td>♦ Included OPC Server for HMI-based RF network diagnostics</td>
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<td>Backed by ProSoft Technology</td>
<td>♦ Industrial data communications experts who understand your protocols, devices, and applications</td>
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<td>♦ Indoor/outdoor radio network design assistance - accessory selection, path studies, and site survey</td>
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<td>♦ Three year standard warranty</td>
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### 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

Radio

Frequency Band (Varies by Country)

**802.11b/g:**
- 2.412 to 2.462 GHz (FCC)
- 2.412 to 2.472 GHz (ETSI)

**802.11a:**
- 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 (100-240VAC PoE Injector included)

Average Power

- <6W

Regulatory Approvals

Wireless Approvals


Ordinary Locations:

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

Hazardous Locations

- ATEX 60079-0 & 60079-15 Category 3, Zone 2