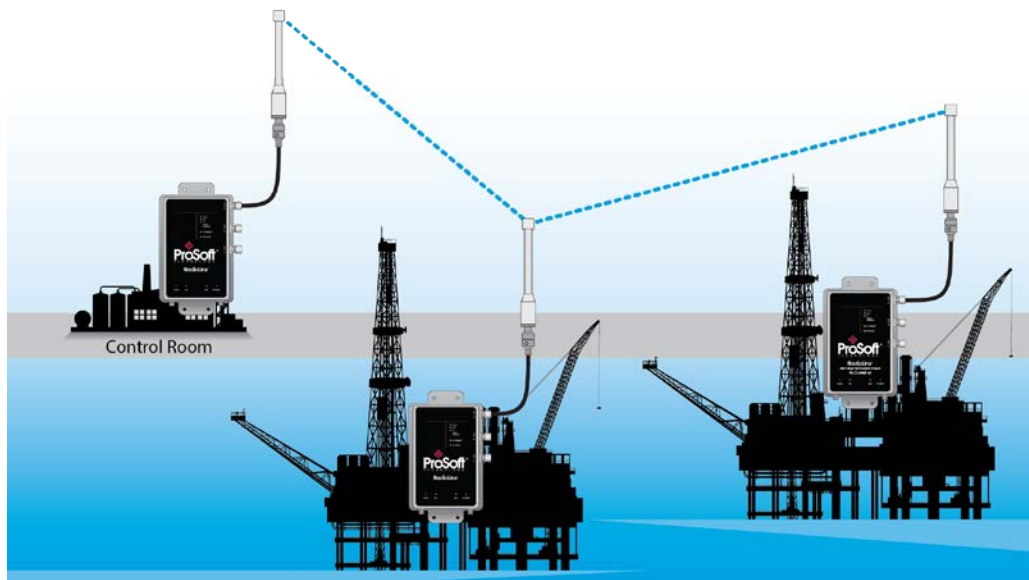


## 802.11abgn Weatherproof IP67 Fast Industrial Hotspot RLX2-IHNF-W

The ProSoft Technology Weatherproof IP67 Fast Industrial Hotspot (RLX2-IHNF-W) is designed for harsh environments and features an IP66/67 rating. It is water-tight for use in extreme weather applications such as offshore oil rigs, and dust-tight for use in mining applications.

The Weatherproof Hotspot provides secure, reliable and fast connectivity with speeds up to 300 Mbps for SCADA automation, process control and mobile worker Wi-Fi infrastructures. In addition, the radio features Fast Roaming providing seamless networking for manufacturing assembly lines, material handling systems and underground mining applications.



### Features

- ◆ 802.11n MIMO & Channel bonding supports demanding wireless applications such as Ethernet I/O and high-resolution video
- ◆ 802.11i, WPA-2 and 128-bit AES encryption ensures secure networking with advanced authentication
- ◆ Virtual Local Area Networks (VLAN) allow for secure network segmentation
- ◆ Quality of Service (QoS) allows you to set different data transmission requirements for each of your I/O control devices
- ◆ RADIUS security ensures secure networking with advanced authentication and encryption

## Radio Specifications

Specification	Description
Frequency band (Varies by country)	2.412 GHz to 2.462 GHz (FCC)
	2.412 GHz to 2.472 GHz (ETSI)
	5.150 GHz to 5.250 GHz (FCC/ETSI)
	5.260 GHz to 5.580 GHz (FCC/ETSI)*
	5.660 GHz to 5.700 GHz (FCC/ETSI)*
	5.725 GHz to 5.850 GHz (FCC)
	*DFS channels with RADAR detection
Wireless standards	802.11n, 802.11a, 802.11g 802.11h (DFS), 802.11i (Security), 802.11e (QoS) 802.1Q (VLAN), 802.3af (PoE), IGMPv2
Transmit power (Programmable) *Subject to regional regulatory limits	22 dBm @ MCS0, MCS8 (802.11an/gn) 17 dBm @ MCS7, MCS15 (802.11an/gn) 22 dBm @ 6 Mbps (802.11a/g) 17 dBm @ 54 Mbps (802.11a/g)  Antenna Impact: 3 Antennas/MIMO: Use values above 2 Antennas: Subtract 3 dB from values above 1 Antenna: Subtract 5 dB from values above
Channel data rates 802.11n	MCS0 through MCS15, 1 Channel or 2 Channels with 1 Stream or 2 Streams
	<b>1 Channel</b> <b>2 Channels</b> <b>Rate</b> <b>Streams</b>
	7 Mbps   15 Mbps   MCS0   1 Stream
	72 Mbps   150 Mbps   MCS7
	14 Mbps   30 Mbps   MCS8   2 Streams
	144 Mbps   300 Mbps   MCS15
802.11b	1, 2, 5.5 and 11 Mbps
802.11a/g	1, 2, 5.5, 6, 9, 11, 12, 18, 24, 36, 48, 54 Mbps
Receiver sensitivity (Typical)	-92 dBm @ MCS0, MCS8 (802.11an/gn) -70 dBm @ MCS7, MCS15 (802.11an) -74 dBm @ MCS7, MCS15 (802.11gn) -92 dBm @ 6 Mbps (802.11an/gn) -74 dBm @ 54 Mbps (802.11a) -78 dBm @ 54 Mbps (802.11g)
Security	WPA2 Enterprise – 802.11i AES w/RADIUS [PEAP, TTLS, TLS, EAP]  WPA2 Personal – 802.11i AES w/ Passphrase Legacy WPA TKIP, WEP support MAC ID filter

## Hardware Specifications

### Physical

Specification	Description
Enclosure	Die-cast aluminum with pole mount
Dimensions (H x W x D)	11.5 x 7.0 x 2.75 in 29.2 x 17.8 x 7.0 cm
Shock	IEC 60068 2-6 (20G, 3-Axis)
Vibration	IEC 60068 2-27 (5G, 10 to 150 Hz)
Ethernet Port	(1) water/dust tight 10/100/1000 Base-T connector, shielded RJ45 IEEE 802.3, 802.3u, 802.3x, 802.3af, Passive PoE Not 802.3at/PoE+ compatible
Antenna Port	(3) N connectors
Weight	3.9 lbs (1.6 kg) less cables and pole mounting bracket



Where Automation  
Connects™

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ProSoft Technology® products are distributed and supported worldwide through a network of over 500 distributors in over 50 countries. Our knowledgeable distributors are familiar with your application needs. For a complete list of distributors, go to our web site at:

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Whether your application is large or small, our technical professionals are there to help you choose the right communication solution.

## Environmental

Operating Temperature	-40°F to 167°F (-40°C to 75°C) -40°F to +158°F (-40°C to +70°C), RLX2-IHNF-W Series B only
Humidity	Up to 100% RH
External Power	10 to 24 VDC
Power over Ethernet	802.3af compliant
Peak Power Consumption	< 8W

## Regulatory Approvals

### Wireless Approvals

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

### Hazardous Locations

Ex Certificate (ATEX Directive, Zone 2)

### Regulatory

CE Mark

CSA/CB Safety

ETSI

FCC/IC

### What's included in the box:

- (1) RLX2-IHNF-W (802.11abgn Weatherproof IP67 Fast Industrial Hotspot Radio)
- (2) U bolts for mounting
- (1) IP67 M12 cap
- (1) ProSoft Solutions DVD

### Water-tight cables (sold separately):

Part # CULRJ45-M12-007, 7 foot (2 m), M12 to RJ45, Network Cable/ PoE  
Part # CULRJ45-M12-033, 33 foot (10 m), M12 to RJ45, Network Cable/PoE



## 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:

### 802.11abgn Weatherproof IP67 Fast Industrial Hotspot

RLX2-IHNF-W-A (FCC model)  
RLX2-IHNF-W-E (ETSI model)

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 *Where to Buy* from the menu.