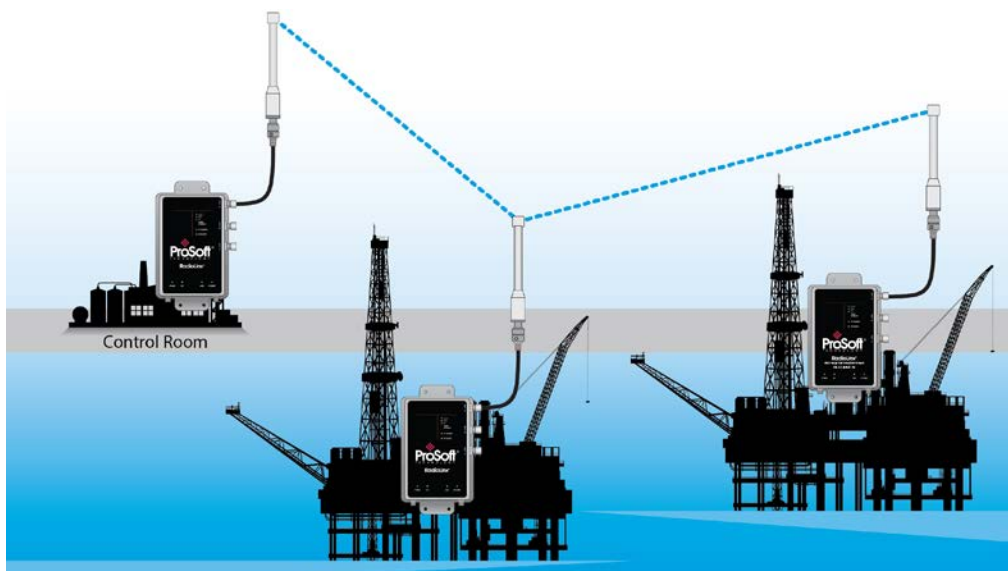


802.11abgn Weatherproof IP67 Fast Industrial Hotspot RLX2-IHNF-WC

The RLX2-IHNF-WC Weatherproof IP67 Fast Industrial Hotspot is UL Class 1 Division 2 certified 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 and channel bonding supports bandwidth-hungry 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) enable wireless traffic segmentation aiding scalability, and security
- ◆ UL Class1 Division 2 certified
- ◆ Contains a single watertight conduit (WC) hub for power and Ethernet connectivity
- ◆ Quality of Service (QoS) provides efficient wireless data prioritization assuring that I/O control devices traffic is always delivered
- ◆ RADIUS support ensures industrial-grade authentication and strong network traffic encryption

Radio Specifications

Specification	Description			
Frequency band (Varies by country)	2.412 GHz to 2.462 GHz (FCC)	1 to 11		
	2.412 GHz to 2.472 GHz (ETSI)	1 to 13		
	5.150 GHz to 5.250 GHz (FCC/ETSI)	36 to 48		
	5.260 GHz to 5.580 GHz (FCC/ETSI)*	52 to 116*		
	5.660 GHz to 5.700 GHz (FCC/ETSI)*	132 to 140*		
	5.725 GHz to 5.850 GHz (FCC)	149 to 165		
		*DFS channels with RADAR detection		
Wireless standards	802.11n, 802.11a, 802.11g 802.11h (DFS), 802.11i (Security), 802.11e (QoS) 802.112Q (VLAN), 802.113af (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			
	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	
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
Antenna Port	(3) N connectors
Weight	3.9 lbs (1.6 kg) less cables and pole mounting bracket



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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-WC 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 for current wireless approval information.

Hazardous Locations

UL/cUL; Class1, Div 2
Ex Certificate (ATEX Directive, Zone 2)

Regulatory

CE Mark
CSA/CB Safety
ETSI
FCC/IC

What's included in the box:

- (1) RLX2-IHNF-WC (802.11abgn Weatherproof IP67 Fast Industrial Hotspot Radio)
- (2) U bolts for mounting
- (1) Oval Clip & Seal Cap for conduit connections
- (1) 5 foot CAT 6 Ethernet PoE cable
- (1) 5 foot flying leads power cable
- (1) ProSoft Solutions DVD



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:

802.11abgn Weatherproof IP67 Fast Industrial Hotspot

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

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