



LONG-RANGE 900 MHZ  
INDUSTRIAL RADIO



# DIGI XLR PRO®

900 MHz industrial radios provide best-in-class range and interference immunity to enable data communications even in the noisiest RF environments

The Digi XLR PRO is a high performance, industrial grade long-range 900 MHz radio that offers reliable wireless communications for serial and Ethernet devices over long distances.

Digi's patented Punch2® Technology enables the Digi XLR PRO to achieve industry-leading range from 1 to 100 miles and interference immunity that will punch through noisy RF environments. Flexible configuration options, including XCTU, local Web UI or Digi Device Cloud<sup>SM</sup>, allow for quick configuration and deployment of multiple Digi XLR PRO radios in the field. Critical device management features include

over-the-air firmware updates, device status information and centralized remote management using Device Cloud.

Packaged in a sturdy, aluminum-cast enclosure, the Digi XLR PRO is ideal for industrial applications including oil/gas, precision agriculture and utilities. Brackets are available for DIN rail and wall mounting.

## BENEFITS

- Patented Punch2® Technology enables industry-leading interference immunity
- Best-in-class range from 1 to 100 miles LOS
- Industrial aluminum-cast design with -40° C to +70° C temperature rating and Class 1 Division 2 certification
- Flexible data rates of up to 3.2 Mbps
- Simple configuration via XCTU, local WebUI or Device Cloud
- Industry-leading 4-year warranty

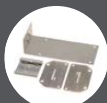
## RELATED PRODUCTS



XBee®  
900HP Module



Cellular  
Routers



Mounting  
Accessories

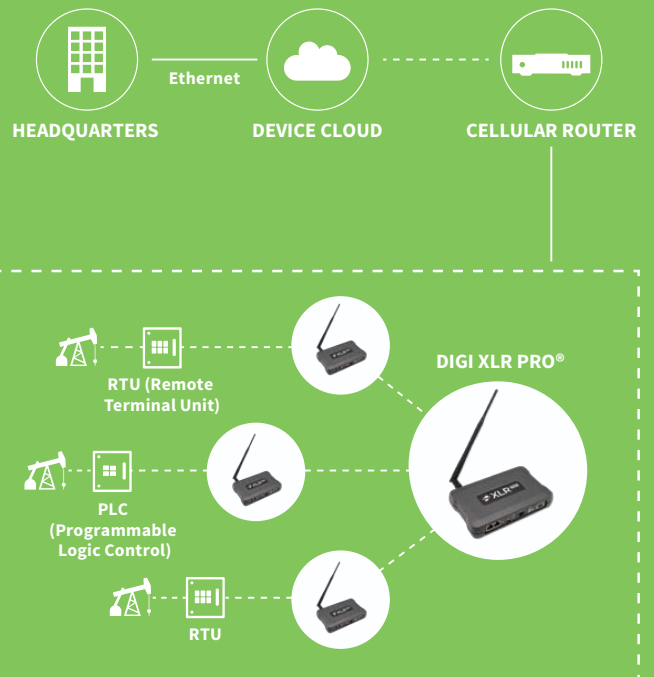


XCTU



Digi Device  
Cloud<sup>SM</sup>

## APPLICATION EXAMPLE



## SPECIFICATIONS

## Digi XLR PRO®

GENERAL	
<b>DIMENSIONS / WEIGHT</b>	18 x 13 x 3.8 cm (7.1 x 5 x 1.5 inches) / 0.68kg (1.5 lbs)
<b>ETHERNET PHYSICAL LAYER</b>	10/100BASE-T/TX
<b>ETHERNET PROTOCOLS</b>	UDP/TCP, DHCP Client
<b>WARRANTY</b>	4 years
PERFORMANCE	
<b>FREQUENCY RANGE</b>	ISM 902 to 928 MHz
<b>RF DATA RATE</b>	9.4 kbps to 3.2 Mbps
<b>TRANSMIT POWER (SOFTWARE SELECTABLE)</b>	Up to 30 dBm (1 Watt)
<b>RANGE</b>	Line-of-sight ideal environment w/ 6 dBi Yagi antenna / 100+ miles @ 1.2Mbps
	Typical environment, some RF noise, w/ 6 dBi dipole antenna / 25 miles @ 9.4Kbps, 8 miles @ 141Kbps, 3.6 miles @ 591Kbps, 1 mile @ 3.2Mbps
<b>RECEIVER SENSITIVITY</b>	-120 dBm @ 9.4 Kbps, -112 dBm @ 141 Kbps, -98 @ 3.2 Mbps
<b>RECEIVER SELECTIVITY</b>	141 kbps: 70 dB (below 908 MHz, above 922 MHz) 40 dB (908 MHz to 922 MHz)
<b>THROUGHPUT DATA RATE (SOFTWARE SELECTABLE)</b>	460.8 kbps (TCP/UDP Socket); 921.6 kbps (Serial RS-485); 460.8 kbps (Serial RS-232)
NETWORKING AND SECURITY	
<b>MODULATION</b>	Punch2® Technology using Chirp Spread Spectrum
<b>SUPPORTED NETWORK TOPOLOGIES</b>	Point-to-point/Point-to-multipoint
<b>ENCRYPTION</b>	128-bit AES with 64-bit message integrity check
POWER REQUIREMENTS	
<b>SUPPLY VOLTAGE</b>	9 to 26 VDC
<b>RECEIVE CURRENT</b>	300 mA @ 9 V; 230 mA @ 12 V; 120 mA @ 26 V
<b>TRANSMIT CURRENT</b>	950 mA @ 9 V; 840 mA @ 12 V; 400 mA @ 26 V
ENVIRONMENTAL	
<b>OPERATING TEMPERATURE</b>	-40°C to +70°C
REGULATORY APPROVALS	
<b>EMISSIONS/IMMUNITY</b>	FCC Part 15B (US), IC (Canada), RCM (Australia), Anatel (Brazil) and Peru
<b>HAZARDOUS LOCATIONS</b>	Class 1 Division 2 Groups A, B, C, D
<b>POWER</b>	UL 60950-1, 2nd edition, 2011-12-19
CONNECTORS	
<b>ANTENNA</b>	50 Ohm RP-TNC (Female)
<b>POWER SUPPLY</b>	Phoenix
<b>ETHERNET</b>	(2) RJ45
<b>SERIAL</b>	(1) RJ45 - RS232/485
<b>CONFIGURATION PORT</b>	Mini-USB
<b>MOUNTING OPTIONS</b>	DIN rail bracket, Wall mount bracket

## PART NUMBERS

## DESCRIPTION

<b>XL9-U</b>	Digi XLR PRO Long-Range 900 MHz Modem, No Accessories – US/Canada/Mexico
<b>XL9-UA</b>	Digi XLR PRO Long-Range 900 MHz Modem, Includes Accessories – US/Canada/Mexico
<b>XL9-A</b>	Digi XLR PRO Long-Range 900 Mhz Modem, No Accessories - International
<b>XL9-AA</b>	Digi XLR PRO Long-Range 900 Mhz Modem, Includes Accessories - International

**DIGI SERVICE AND SUPPORT** / You can purchase with confidence knowing that Digi is always available to serve you with expert technical support and our industry leading warranty. For detailed information visit [www.digi.com/support](http://www.digi.com/support).

© 1996-2016 Digi International Inc. All rights reserved.  
All trademarks are the property of their respective owners.

91002926  
B5/1116

**DIGI INTERNATIONAL WORLDWIDE HQ**  
877-912-3444 / 952-912-3444 / [www.digi.com](http://www.digi.com)

**DIGI INTERNATIONAL FRANCE**  
+33-1-55-61-98-98 / [www.digi.fr](http://www.digi.fr)

**DIGI INTERNATIONAL JAPAN**  
+81-3-5428-0261 / [www.digi-intl.co.jp](http://www.digi-intl.co.jp)

**DIGI INTERNATIONAL SINGAPORE**  
+65-6213-5380

**DIGI INTERNATIONAL CHINA**  
+86-21-50492199 / [www.digi.com.cn](http://www.digi.com.cn)

