



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 Remote Manager®, allow for quick configuration and deployment of multiple Digi XLR PRO radios in the field. Critical device management features include

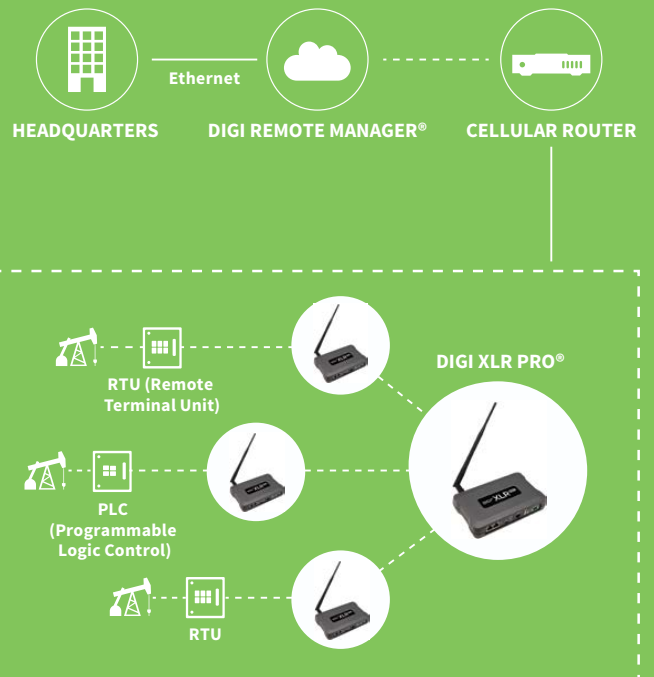
over-the-air firmware updates, device status information and centralized remote management using Digi Remote Manager.

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 up to 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 Digi Remote Manager
- Industry-leading 4-year warranty

## APPLICATION EXAMPLE



## RELATED PRODUCTS



## 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 / up to 100+ miles @ 1.2Mbps
	Typical environment, some RF noise, w/ 6 dBi dipole antenna / up to 25 miles @ 9.4Kbps, up to 8 miles @ 141Kbps, up to 3.6 miles @ 591Kbps, up to 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

\*Range figure estimates are based on free-air terrain with limited sources of interference. Actual range will vary based on transmitting power, orientation of transmitter and receiver, height of transmitting antenna, height of receiving antenna, weather conditions, interference sources in the area, and terrain between receiver and transmitter, including indoor and outdoor structures such as walls, trees, buildings, hills, and mountains.

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