



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

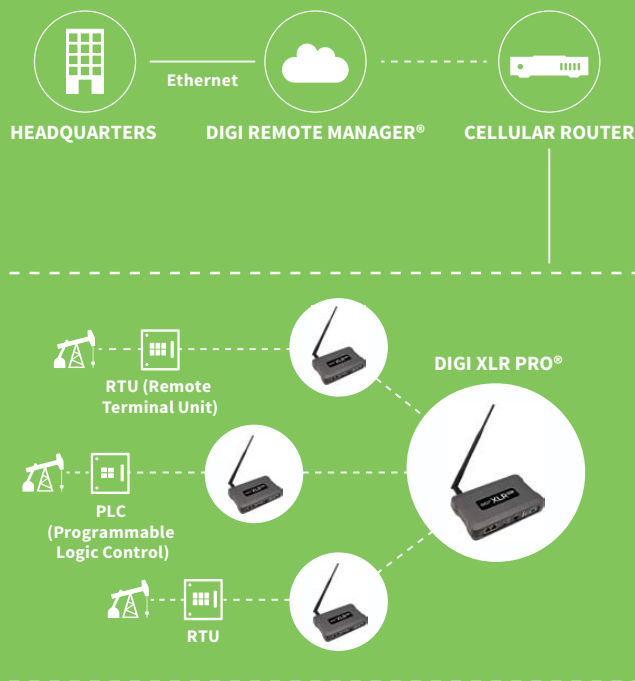
over-the-air firmware updates, device status information and centralized remote management using Digi Remote Manager.

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



XBee®
900HP Module



Cellular
Routers



Mounting
Accessories



XCTU



Digi Remote
Manager®

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

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