



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

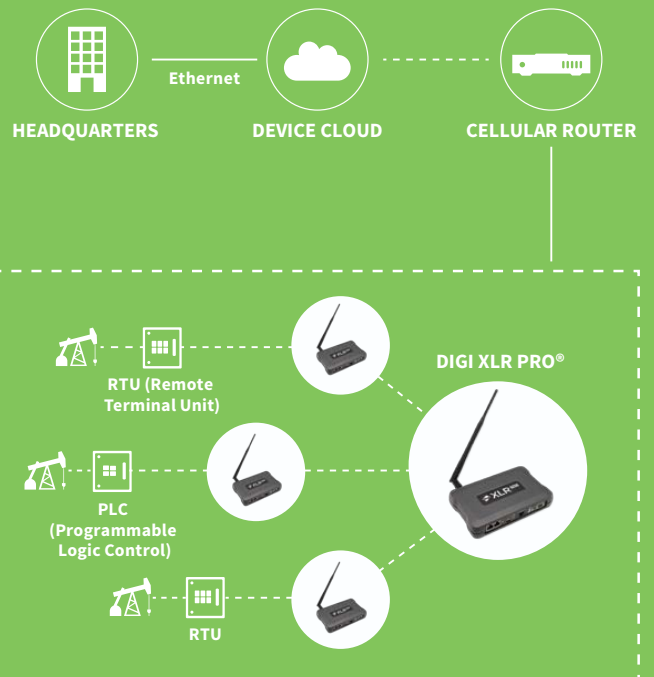
over-the-air firmware updates, device status information and centralized remote management using Device Cloud.

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

APPLICATION EXAMPLE



RELATED PRODUCTS

- XBee® 900HP Module
- Cellular Routers
- Mounting Accessories
- XCTU
- Digi Device CloudSM

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 / 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
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

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