DIGI

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℠, 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.
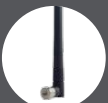
BENEFITS

– 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

– Scalable device management with Device Cloud
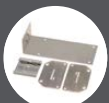
– Industry leading 4-year warranty

APPLICATION EXAMPLE

HEADQUARTERS   Ethernet   DEVICE CLOUD   CELLULAR ROUTER

RTU (Remote Terminal Unit)   DIGI XLR PRO™

PLC (Programmable Logic Control)

RTU

RELATED PRODUCTS

XBee®
900HP Module

Antennas

Mounting
Accessories

XCTU

Digi Device
Cloud℠
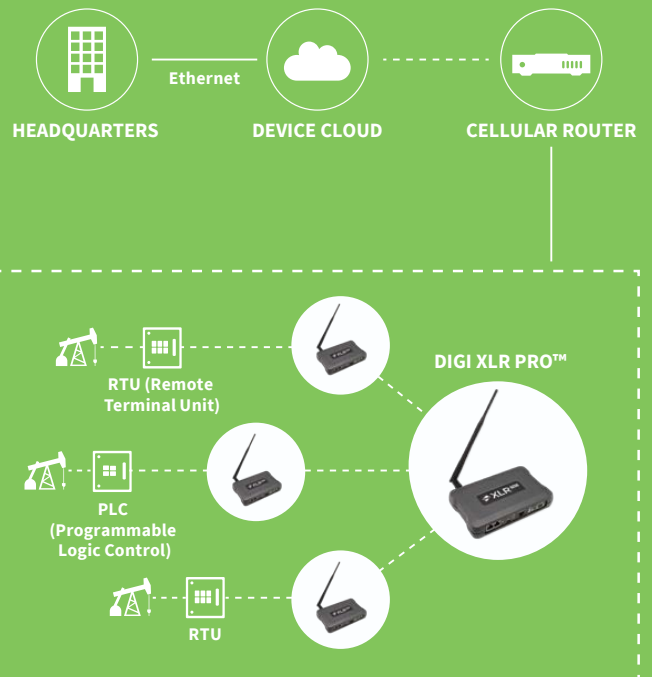
SPECIFICATIONS — Digi XLR PRO™

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	9.3 kbps to 3.2 Mbps
TRANSMIT POWER (SOFTWARE SELECTABLE)	Up to 30 dBm (highest power level)
RANGE - LINE OF SIGHT	1 - 100 Miles
RECEIVER SENSITIVITY	9.4 kbps: -120 dBm; 141 kbps: -112 dBm; 3.2 Mbps: -98 dBm
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
SUPPORTED NETWORK TOPOLOGIES	Point-to-point/Point-to-multipoint
ENCRYPTION	128-bit AES with 64-bit message integrity check

POWER REQUIREMENTS

SUPPLY VOLTAGE	9 V to 26 V
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, IC
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 (Coming Soon)
MOUNTING OPTIONS	DIN rail bracket, Wall mount bracket

PART NUMBERS — DESCRIPTION

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

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B1/915

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