XBee-PRO® 900HP RF Modems

900 MHz Modems

900 MHz stand-alone RF modems provide outstanding range (up to 28 miles) in a reliable wireless solution.
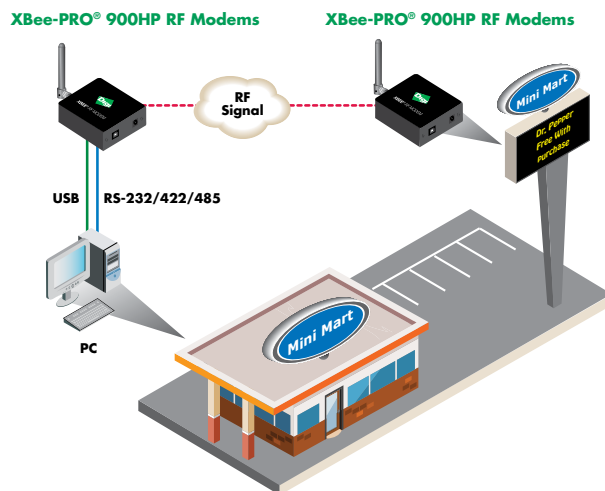
Overview

Digi's XBee-PRO 900HP RF modems can be configured in minutes to provide reliable serial cable replacement between many different types of electronic devices. These modems utilize the XBee-PRO 900HP 900 MHz RF Module in an enclosure with interface options that include RS-232, RS-485, USB and Ethernet with transmission ranges of up to 28 miles.

XBee-PRO 900HP RF modems allow the user to easily make their existing wired systems wireless simply by connecting to this product. They take advantage of the DigiMesh® networking protocol, featuring dense network operation using mesh technology.

XBee-PRO 900HP RF modems can wirelessly connect a variety of devices across many applications including remote monitoring, building automation/ security, industrial automation/SCADA, fleet management/asset tracking and sensor data capture in embedded systems.
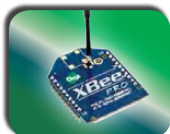
Application Highlight

XBee-PRO® 900HP RF Modems   XBee-PRO® 900HP RF Modems

RF Signal

USB   RS-232/422/485

PC

Mini Mart

Features/Benefits

- **Industrial design with -40° C to 85° C operating temperature**
- **Superior outdoor LOS range of up to 28 miles**
- **RF data throughput up to 200 Kbps**
- **900 MHz license-free ISM band operation**
- **Interface options include RS-232, RS-485, USB and Ethernet**
- **DigiMesh peer-to-peer mesh networking protocol**
  - **Self-healing and discovery for network stability**
- **Includes mini-USB port for simple device configuration**

Related Products

XBee®-PRO 900HP Modules   **XTend® PKG**   **XBee® Gateways**

www.digi.com

Specifications	XBee-PRO® 900HP RF Modems
Performance	
Indoor/Urban Range	10 Kbps: up to 2000 ft (610 m); 200 Kbps: up to 1000 ft (305 m)
Outdoor/RF Line-of-Sight Range	10 Kbps: up to 9 miles (15.5 km); 200 Kbps: up to 4 miles (6.5 km); w/2.1 dbi dipole antenna
Transmit Power Output	Up to 24 dBm (250 mW) software selectable
Throughput Data Rate	10 Kbps: up to 8.8 Kbps; 200 Kbps: up to 105.5 Kbps; (When configured as point-to-multipoint)
RF Data Rate	10 Kbps or 200 Kbps
Interface Data Rate	125-65,0000 bps (Software selectable, includes non-standard baud rates)
Receiver Sensitivity	10 Kbps: -110 dBm; 200 Kbps: -101 dBm
Network and Security	
Frequency	902-928 MHz (located in the 900 MHz ISM Band)
Spread Spectrum	Frequency hopping
Supported Network Topologies	Mesh, Point-to-point, Point-to-multipoint, Peer-to-peer
Channel Capacity	8 hop sequences share 25 channels, 64 channels available (there are 64 channels available, of which the user can select 25 that are hopped through in 8 different patterns.)
Antenna	
Connector	RPSMA (Reverse polarity SMA)
Power Requirements	
Power Supply	7-30 VDC
Receive Current	60 mA (@9V)
Transmit Current	140 mA (@9V)
Physical Properties	
Size	4.5 in x 2.75 in x 1.125 in (11.4 cm x 7 cm x 2.9 cm)
Weight	5.25 oz (150 g)
Data Connection	RS-232 female DB-9, RS-485/422 screw terminal, USB Type B, Config USB mini-B, 10/100 Ethernet
Operating Temperature	-40° C to 85° C (Industrial)
Regulatory Approvals	
FCC Part 15.247 (U.S.A)	Yes
IC (Canada)	Yes
C-TICK (Australia)	Yes
RoHS	Compliant

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

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