900 MHZ WIRELESS **ETHERNET BRIDGE**

XPRESS[™] ETHERNET BRIDGE

The XPress Ethernet Bridge provides a secure point-to-point or point-to-multipoint IP connection without the expense and limitations of physical cabling

The XPress Ethernet Bridge replaces costly wiring with a solution that can wirelessly connect industrial PLCs, digital signs, security cameras, access controllers and more. With a range of up to 15 miles, the ability to transmit through as many as 10 standard walls, a 1.5 Mbps data rate, and the added range and capabilities of the 900 MHz band, the easy-to-use, long-range XPress Ethernet Bridge communicates where Wi-Fi and other wireless data products fall short.

The XPress Ethernet Bridge features a built-in spectrum analyzer, allowing users to monitor RF interference. Frequency agility enables the product to automatically select the best

available radio channel at start-up, monitor the signalto-noise ratio and move the network to a new channel if necessary. A web interface simplifies installation, allows users to monitor packet success and signal strength and facilitates remote troubleshooting.

Town Design Course

The XPress Ethernet Bridge is housed in a weatherproof enclosure. It is available in pre-paired units or single units for point-to-multipoint applications.

BENEFITS

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- Easy-to-use web interface simplifies configuration and remote troubleshooting
- Check packet success and signal strength with the web interface
- Outdoor line-of-sight range of up to 15 miles (with high gain antenna)
- AES encryption, FIPS 197 and optional FIPS 140-2 provide secure communication
- Built-in NAT supports multiple IP client devices
- Frequency agility ensures reliable connection between radios
- Monitor RF interference with built-in spectrum analyzer

RELATED PRODUCTS















RF Modem

Digi XLR Pro™

ConnectPort® ¥2

» ZigBee^a

ZigBee

| SPECIFICATIONS | XPress™ Ethernet Bridge | |
|-------------------------------------|---|--|
| PERFORMANCE | | |
| INDOOR/URBAN RANGE | Up to 1000 ft (300 m) w/ 2.1 dB dipole antenna | |
| OUTDOOR/RF LINE-OF-SIGHT RANGE | Up to 2 miles (3.2 km) w/ 2.5 dB dipole antenna, Up to 15 miles (24 km) w/ high-gain antenna | |
| TRANSMIT POWER OUTPUT | 125 mW (+21 dBm), 4W EIRP w/ 15 dBi antenna | |
| THROUGHPUT DATA RATE | 935 Kbps | |
| RF DATA RATE | 1.536 Mbps | |
| RECEIVER SENSITIVITY | -97 dBm (@10e-4 BER) | |
| FEATURES | | |
| SUPPPORTED PROTOCOLS | TCP/IP, Rockwell (RSLinx EtherNet/IP, CSP), Modbus/TCP | |
| BROWSER MANAGEMENT TOOLS | QoS statistics, Network settings, Spectrum analyzer, Firmware upgrading | |
| DATA CONNECTION | 10/100Base-T RJ-45, Auto MDI/MDIX | |
| INTERFERENCE IMMUNITY | DSSS (Direct Sequence Spread Spectrum) | |
| ENCRYPTION | 128-bit AES, FIPS 197/NIST certified (optional FIPS 140-2) | |
| RADIO CHANNELS/BANDWIDTH | 12 channels (6 in international version) with 2.0833 MHz spacing and 1.75 MHz occupied bandwidth | |
| FREQUENCY BAND | ISM 902-928 MHz (915-928 MHz international version) | |
| FREQUENCY AGILITY | Radio channel automatically selected and adaptively optimized | |
| MANUAL FREQUENCY MODE | Channel selected with DIP switch or web browser interface | |
| STATUS LEDS | Power, RF TX/RX, Ethernet link, channel, link quality | |
| ERROR-CORRECTION TECHNIQUE | Sub-block error detection and retransmission | |
| ADJACENT-BAND REJECTION | >60 dB - SAW receiver filter attenuates cellular and pager interference | |
| REGULATOR TYPE | Switching regulator | |
| ANTENNA CONNECTOR | RF RPTNC female | |
| POE (POWER OVER ETHERNET) | Proprietary system included | |
| SUBSCRIBER UNITS | Up to 16 active (63 total) per access point | |
| SERIAL NUMBER BASED MATING PROTOCOL | Yes | |
| DIMENSIONS (L X W X H) AND WEIGHT | 7.9 in x 3.6 in x 2.4 in (20.0 cm x 9.1 cm x 6.1 cm); 415 grams | |
| POWER REQUIREMENTS | | |
| POWER CONSUMPTION | Transmit: 1.7W, Receive: 0.8W | |
| TRANSMIT CURRENT DRAW | 9 - 48 VDC Power over Ethernet, 175 mA at 9 VDC, 140 mA at 12 VDC, 35 mA at 48 VDC | |
| POWER CONNECTOR | Use PoE injector, power jack P5-2.1 mm center positive | |
| ENVIRONMENTAL | | |
| OPERATING TEMPERATURE | Radio/Enclosure: -40° C to +70° C; POE injector: -40° C to +85° C; Power supply: 0° C to +40° C | |
| WEATHERPROOFING | The XPress Ethernet Bridge is IP65 rated. The PoE injector and power supply are not weatherproof and should be installed indoors. | |
| REGULATORY APPROVALS | | |
| FCC (U.S.A) | Yes | |
| IC (CANADA) | Yes | |
| ETSI (EUROPE) | N/A | |
| C-TICK (AUSTRALIA) | Yes | |
| TELEC (JAPAN) | N/A | |

| PART NUMBERS | DESCRIPTION |
|--------------|---|
| XEB09-CIPA | XPress Ethernet Bridge, Pair |
| XEB09-CIPAF | XPress Ethernet Bridge, Pair - with FIPS 140-2 |
| XEB09-CIPA-W | XPress Ethernet Bridge, Pair (International) |
| XEB09-CISA | XPress Ethernet Bridge, Single |
| XEB09-CISAF | XPress Ethernet Bridge, Single - with FIPS 140-2 |
| XEB09-CISAFB | XPress Ethernet Bridge, Radio Board - with FIPS 140-2 |
| XEB09-CISA-W | XPress Ethernet Bridge, Single (International) |

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