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XPress™ Ethernet Bridge

900 MHz Wireless 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.



Overview

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 signal-to-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.

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.

Target Applications



Industrial Automation



Building Automation

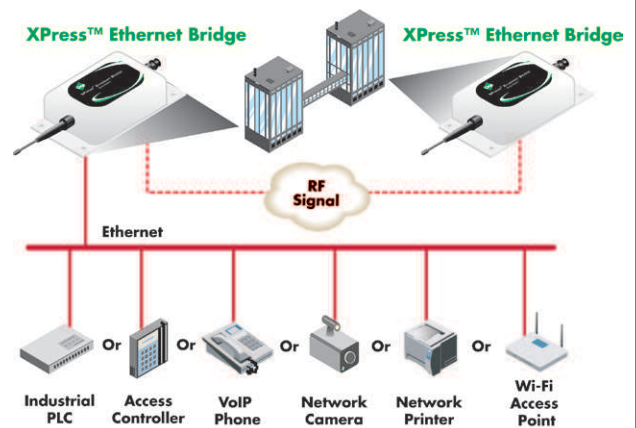


Remote Devices



Smart Energy

Application Highlight



Features/Benefits

- 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



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 | |
| Supported 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) | 7.9 in x 3.6 in x 2.4 in (20.0 cm x 9.1 cm x 6.1 cm) |
| Weight | 415 grams |
| Power Requirements | |
| Power Consumption | Transmit: 1.7W, Receive: 0.8W |
| Transmit Current Draw | 9 - 48VDC Power over Ethernet, 175 mA at 9VDC, 140 mA at 12VDC, 35 mA at 48VDC |
| 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 |

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