



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 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.

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

RELATED PRODUCTS



XTend®
RF Modem



Digi XLR Pro™



ConnectPort®
X2

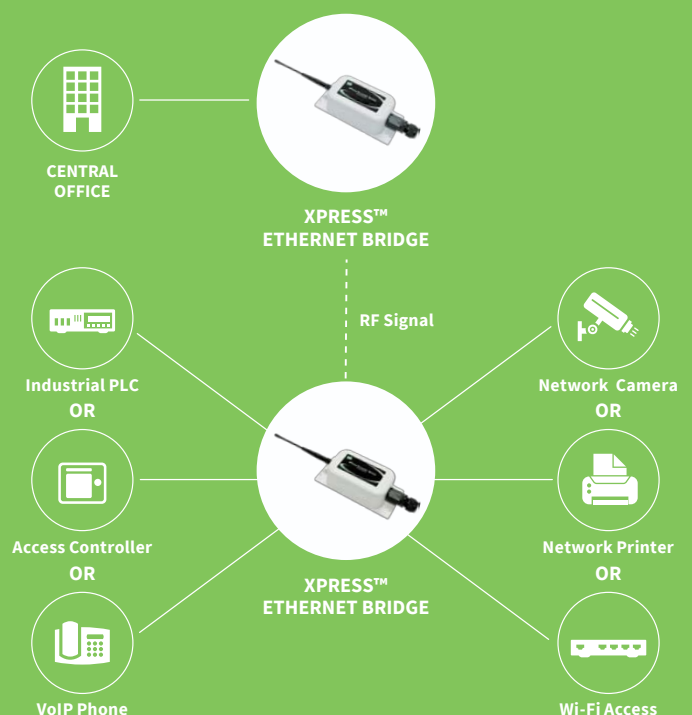


XBee® ZigBee®
Module



XBee® ZigBee®
Adapter

APPLICATION EXAMPLE



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) 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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DIGI INTERNATIONAL WORLDWIDE HQ
877-912-3444 / 952-912-3444 / www.digi.com

DIGI INTERNATIONAL FRANCE
+33-1-55-61-98-98 / www.digi.fr

DIGI INTERNATIONAL JAPAN
+81-3-5428-0261 / www.digi-intl.co.jp

DIGI INTERNATIONAL SINGAPORE
+65-6213-5380

DIGI INTERNATIONAL CHINA
+86-21-50492199 / www.digi.com.cn

