

XPress™ Ethernet Bridge

900 MHz - Long Range Wireless Ethernet Bridge by MaxStream, Inc.

Features

Indoor/Urban Range (w/ 2.5 dBi antenna):	1000'
Indoor/Urban Range (w/ high gain antenna):	2000'
Outdoor LOS Range (w/ high gain antenna):	15 miles
Conducted Power Output:	125 mW

Indoor XPress Ethernet Bridge radio pair



Outdoor XPress Ethernet Bridge with high-gain Yagi antenna

Does not interfere with Wi-Fi networks

Highest QoS (Quality of Service) available - Synchronous point-to-point protocol enables extremely low data latency and jitter

128-bit encryption payload protection provides secure data delivery

Simple Plug-and-Play: Pre-configured as matched pairs with no user programming required

VLAN extensions supported



FCC (U.S.A.) Approved

Contact MaxStream for complete list of certifications

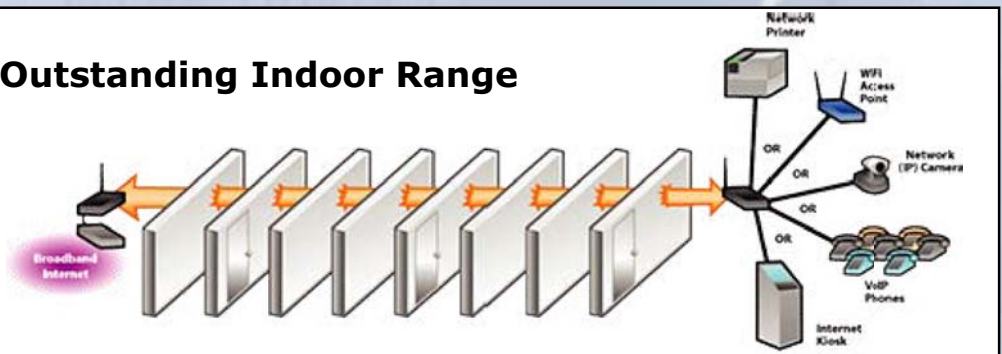
Connecting your data system to the Internet

The XPress Ethernet Bridge is the best solution when:

- Wi-Fi range is insufficient
- A broadband Ethernet drop will cost too much or is impractical to install
- Guaranteed DSL-rate throughput is required (Kiosks/Wi-Fi APs/PTZ Cameras)
- Guaranteed latency for voice or video is required (VoIP/PTZ Cameras)
- Wi-Fi is too slow due to saturation or 2.4 GHz interference (Airport/Mall/PTZ Cameras)
- An indoor long-range broadband backhaul is required

The XPress Ethernet Bridge replaces costly wiring with a solution that can enable remote Wi-Fi APs, Pan/Tilt/Zoom Security cameras, VoIP phones, Internet Kiosks and more.

Outstanding Indoor Range



Call today!

- Free RF Consultation
- Volume Discounts
- Wide Variety of RF Solutions

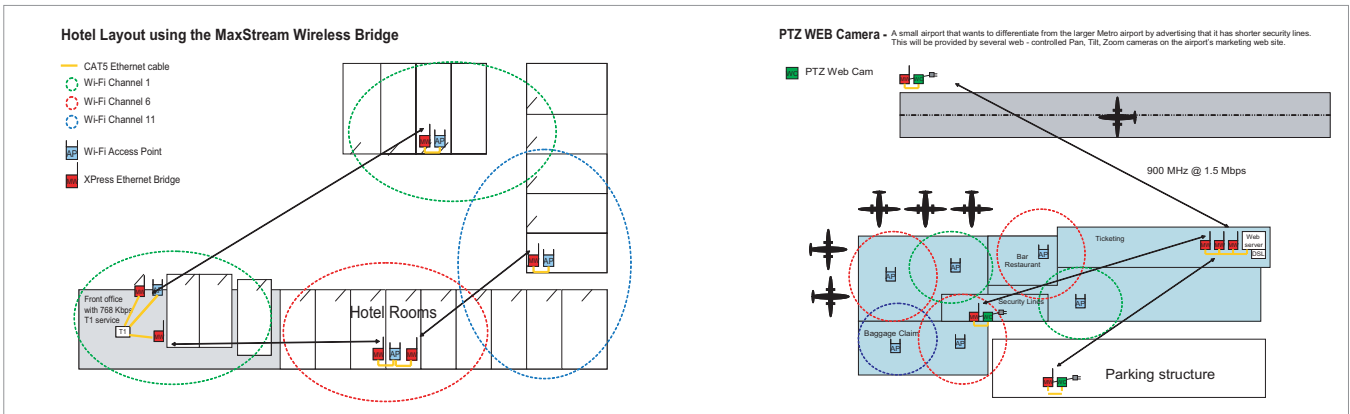


XPress™ Ethernet Bridge 900 MHz Wireless Ethernet Bridge

Specifications		
Performance	Transmit Power Output	125 mW (21 dBm), 4 Watts EIRP w/ 15 dB antenna
	Indoor/Urban Range	up to 1000' (300 m) w/ 2.5 dB dipole antenna up to 2000' (600 m) w/ high-gain 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
	Throughput Data Rate	935 Kbps
	RF Data Rate	1.5 Mbps
	Receiver Sensitivity	-97 dBm (@ 10e ⁻⁴ BER)
General	Frequency	ISM 902 - 928 MHz
	Spread Spectrum	DSSS (Direct Sequence Spread Spectrum)
	Encryption	128-bit Encryption
	Transmit Current Consumption	350 mA
	Latency	< 1 ms - assuming a dedicated wireless link to client device
	Jitter	± 0.05 ms - depending on packet size, interference and SNR
	Channels	12 non-overlapping
	Automatic Frequency Select	Yes - radio channel automatically selected and adaptively optimized
	Manual Frequency Mode	Yes
	Status LEDs	Power, RF Link, Ethernet Link, Traffic, RF RX, RF TX, 4/Channel and 6/Link quality
	Error-Correction Technique	Sub-block error-detection and retransmission
	Adjacent-band Rejection	>60 dB - SAW receiver filter attenuates cellular and pager interference
	Antenna Connector	RPTNC
	PoE (Power-over-Ethernet)	Proprietary system - includes injectors and power supplies
	Supply Voltage	Indoor/Commercial RF Modem: 4.5 - 9.0 VDC (-40 - 70° C) up to 16.0 VDC (-40 - 35° C) Outdoor/Industrial RF Modem: 5.0 - 9.0 VDC* (-40 - 70° C) up to 16.5 VDC (-40 - 35° C)
FCC ID (Certification Part 15.247)	R4N-MW900	
Physical Properties	Indoor/Commercial RF Modem	3.25" x 5.25" x 1.19" (8.26cm x 13.34cm x 3.00cm) 5.64 oz (160 g)
	Outdoor/Industrial RF Modem	3.13" x 6.25" x 2.25" (7.94cm x 15.88cm x 5.72cm) 10.34 oz (293 g)
	Data Connection	RJ-45
	Operating Temperature	-40 to 70° C

* Values assume powering at PoE injector & having 0.5 VDC voltage drop prior to getting to radio's regulator when using the provided 30' CAT5 cables. Specifications are subject to change without notice.

Sample Application Diagrams



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