

XStream-PKG-EA™

Ethernet RF Modems

900 MHz & 2.4 GHz

XSTREAM-PKG-EA INCLUDES:

- (1) XStream-PKG-E Ethernet RF Modem
- (1) Quick Start Guide
- (1) CD (software & documentation)
- (1) 1/2 wave antenna
- (1) CAT-5 cable



ADDITIONAL FEATURES

- Plug-and-communicate (no configuration required)
- Ethernet interface
- Compatible with RS-232, USB and Telephone Modems
- Transparent operation supports existing software & systems
- Simple configuration using software & standard AT commands
- Retries & acknowledgements for guaranteed packet delivery
- Peer-to-peer, point-to-point & point-to-multipoint networks
- Up to 65,000 network addresses available
- Allows up to 7 Frequency Hopping Spread Spectrum independent pairs (networks) to operate in close proximity
- Low power modes for current consumption as low as 230 mA
- Host interface baud rates from 1200 bps to 57600 bps
- XON / XOFF or hardware flow control
- Signal strength reporting for link quality monitoring & debugging
- Support for multiple data formats (7/8 bits, Even/Odd/No Parity)

Options

- 900 MHz or 2.4 GHz license-free ISM bands
- 9600 bps or 19200 bps RF data rates
- Available without accessories as XStream-PKG-E

APPLICATIONS

Monitoring of remote systems



Production reporting of active systems



Home automation & building control



Supervisory control & data acquisition



Vehicle management & asset tracking



XStream Ethernet RF Modems contain an OEM RF Module that renders the modem the longest range performer in the RFd2d (Radio Frequency device-to-device) segment of the wireless market.

The integrated ethernet interface board extends data system performance and flexibility by adding serial connectivity to Ethernet networks.

This RF Modem is optimized for mobile and remote applications, allowing OEMs and integrators to quickly test, monitor and control their wireless systems via standard laptop and PC Ethernet ports. Additionally, the RF modem enables worldwide access to wireless networks via the Internet.

The 900 MHz radio modem comes equipped with the best receiver sensitivity in the industry, making it one of the longest range, low cost radio modems available.

The 2.4 GHz radio modem can provide high performance and dependable operation for deployment throughout the world (visit www.maxstream.net for more details).

These radio modems are perfect for applications in automatic meter reading (AMR), supervisory control and data acquisition (SCADA), home automation, security, instrument monitoring and point of sale (POS) systems among many others.

XStream RF Modems can also be configured to integrate quickly and seamlessly into any new or existing design.



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<i>Specifications</i>	<i>900 MHz</i>	<i>2.4 GHz</i>	
General			
Radio modems are also available without accessories (XStream-PKG-E)			
Frequency	902-928 MHz	2.4000-2.4835 GHz	
Spreading Spectrum Type	Frequency hopping, direct FM	Frequency hopping, direct FM	
Network Topology	Point-to-multipoint, point-to-point multi-drop transparent	Point-to-multipoint, point-to-point multi-drop transparent	
Channel Capacity	7 hop sequences share 25 frequencies	7 hop sequences share 25 frequencies	
Serial Data Interface	Ethernet	Ethernet	
I/O Data Rate	Software selectable 1200-57,600 bps	Software selectable 1200-57,600 bps	
Power Requirements			
Supply Voltage	5-28 VDC	5-28 VDC	
Transmit Current	400 mA	400 mA	
Receive Current	250 mA	275 mA	
Power Down Current	230 mA	230 mA	
Physical Properties			
Enclosure Type	Extruded aluminum, black anodized	Extruded aluminum, black anodized	
Enclosure size	2.75" x 5.50" x 1.124" (7.90 cm x 13.90 cm x 3.80 cm)	2.75" x 5.50" x 1.124" (7.90 cm x 13.90 cm x 3.80 cm)	
Weight	7.1 oz (200 g)	7.1 oz (200 g)	
Operating Temperature	0° to +70° C (commercial)	0° to +70° C (commercial)	
Antenna			
Type	1/2 wave dipole whip	1/2 wave dipole whip	
Gain	2.1 dBi	2.1 dBi	
Length	6.75" (17.1 cm)	5.25" (13.3 cm)	
Connector	Reverse-polarity SMA	Reverse-polarity SMA	
Impedance	50 ohms unbalanced	50 ohms unbalanced	
Certifications			
FCC Part 15.247	OUR9XSTREAM	OUR-24XSTREAM	
Industry Canada	4214A-9XSTREAM	4214A 12008	
Europe	N/A	ETSI	
Performance			
Indoor/Urban Range	Up to 1500' (457 m)	Up to 600' (183 m)	
Outdoor LOS Range	Up to 7 mi. (11 km) w/ dipole Up to 20 mi. (32 km) w/ high-gain	Up to 3 mi. (5 km) w/ dipole Up to 10 mi. (16 km) w/ high-gain	
Serial Data Throughput	9600 bps	19.2 kbps	9600 bps 19.2 kbps
RF Data Rate (Baud)	10,000 bps	20,000 bps	10,000 bps 20,000 bps
Transmit Power Output	100 mW (20 ± 2 dBm)	100 mW (20 ± 2 dBm)	50 mW (17 ± 2 dBm) 50 mW (17 ± 2 dBm)
Receiver Sensitivity	-110 dBm	-107 dBm	-105 dBm -102 dBm