

ADM X-Stream Wireless

ADM X-STREAM INCLUDES:

- (1) XStream Stand-Alone Radio Modem
- (1) Quick Start Guide
- (1) CD (software & documentation)
- (1) 1/2 wave antenna
- (1) Serial loopback adapter
- (1) NULL modem adapter (male-to-male)
- (1) Male DB-9 to RJ-45 adapter
- (1) Female DB-9 to RJ-45 adapter
- (1) Power adapters
- (1) 9V battery adapter
- (1) RS-232 cable (6')



ADDITIONAL FEATURES

- Plug-and-communicate (no configuration required)
- Transparent operation supports existing software & systems
- Simple configuration using software & standard AT commands
- Retries & acknowledgements for guaranteed packet delivery
- RS-232/422/485 protocol & multi-drop bus support
- 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 1 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 over-the-air data rates
- Commercial (0° to +70° C) or industrial (-40° to +85° C) grades
- Available without accessories as XStream-PKG-R

APPLICATIONS

Monitoring of remote weighbridges



Monitoring of remote storage silos



Control & monitoring of multiple indicators



Supervisory control & data acquisition



Weighing equipment to remote displays



Head Office
32 Dew Street
THEBARTON
South Australia 5031
Phone (08) 8301 8100
Fax (08) 8352 7409

NSW Office
Unit 4/14 Abbott Road
SEVEN HILLS
New South Wales 2147
Phone (02) 9674 5466
Fax (02) 9674 2544

VIC Office
313 Arden Street
KENSINGTON
Victoria 3031
Phone (03) 9372 1522
Fax (03) 9372 1193

XStream-PKG-RA RS-232/485 RF Modems were designed to provide end users with an easy to install wireless serial communication link.

These radio modems come equipped with the features of our XStream wireless OEM modules. Systems integrators love the functionality provided by the serial connection, power switch, indicator lights, high quality antenna, mounting plates and power source inputs.

The 900 MHz radio modem has the best sensitivity in the industry, making it one of the longest range, low cost radio modems available to date.

The 2.4 GHz radio modem can provide high performance and dependable operation for deployment throughout the world.

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.

These radio modems require no configuration to operate, simply plug-and-communicate. Output serial data from any microcontroller or RS-232 port into the radio modem to send FCC & ETSI approved, frequency hopping spread spectrum data and capture it on all receivers within range on the network.

XStream stand-alone radio modems can also be configured to integrate quickly and seamlessly into any new or existing design.



Head Office
32 Dew Street
THEBARTON
South Australia, 5031
Telephone (08) 8301 8100
Facsimile (08) 8352 7409

<i>Specifications</i>	<i>900 MHz</i>	<i>2.4 GHz</i>	
* Radio modems are also available without accessories (XStream-PKG-R)			
General			
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	Switch selectable RS-232/422/485	Switch selectable RS-232/422/485	
I/O Data Rate	Software selectable 1200-57,600 bps	Software selectable 1200-57,600 bps	
Power Requirements			
Supply Voltage	7-18 VDC	7-18 VDC	
Transmit Current	200 mA	200 mA	
Receive Current	70 mA	70 mA	
Power Down Current	< 1 mA	< 1 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) -40° to +85° C (industrial)	0° to +70° C (commercial) -40° to +85° C (industrial)	
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 Baud Rate	10,000 bps	20,000 bps	10,000 bps 20,000 bps
Transmit Power Output	140 mW (21.5 dBm)	140 mW (21.5 dBm)	50 mW (17 dBm) 50 mW (17 dBm)
Receiver Sensitivity	-110 dBm	-107 dBm	-105 dBm -102 dBm