



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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50 MW/2.4 GHZ STAND-ALONE RADIO MODEMS

XSTREAM® RF MODEMS

2.4 GHz stand-alone RF modems provide outstanding range (up to 10 miles) in a low-cost wireless solution



Digi's XStream RF modems can be configured in minutes to provide low-cost serial cable replacement between all types of electronic devices. XStream-PKG modems provide transmission ranges of up to 10 miles in a low-cost wireless solution. The modems are coupled with a DIP-switchable RS-232/422/485 interface board and regularly outperform more expensive RF modems.

Innovations stamped in their design enable XStream modems to yield two- to eight-times the range of competing modems. This allows OEMs and integrators to cover more ground with fewer devices.

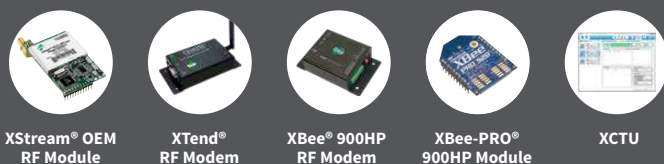
Additionally, XStream-PKG modems are easy to use, thereby reducing the complexity of data system development.

Available in a variety of data interface options, including RS-232/422/485 serial, USB and telephone, XStream-PKG modems can wirelessly connect a variety of devices across many applications including remote monitoring, building automation/security, industrial automation/SCADA, fleet management/asset tracking and sensor data capture in embedded systems.

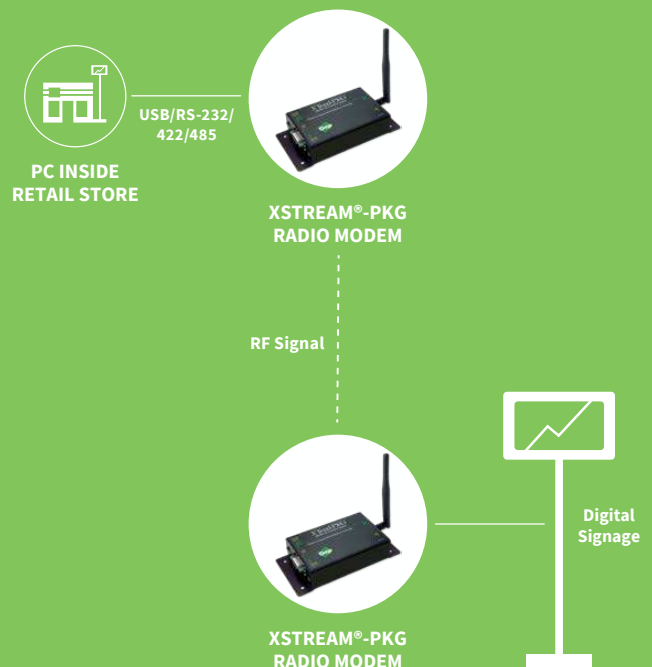
BENEFITS

- Indoor/Urban range up to 600 feet (180 m)
- Outdoor line-of-sight range up to 10 miles (16 km) (with high gain antenna)
- 7 frequency hopping channels, each with 65K available addresses
- Outstanding receiver sensitivity (-105 dBm @ 9600 bps)
- Low power consumption for power-sensitive applications
 - Pin, serial port and cyclic sleep modes available
- Performs retries and acknowledgments for reliable packet delivery
- Easy out-of-the-box operation — no configuration necessary
- Durable industrial grade enclosure

RELATED PRODUCTS



APPLICATION EXAMPLE



SPECIFICATIONS

XStream®-PKG-R

XStream®-PKG-U

PERFORMANCE

INDOOR/URBAN RANGE (W/ 2.1 DB DIPOLE ANTENNA)	Up to 600 ft (180 m)
OUTDOOR RF LINE-OF-SIGHT RANGE (W/ 2.1 DB DIPOLE ANTENNA)	Up to 3 miles (5 km)
OUTDOOR RF LINE-OF-SIGHT RANGE (W/ HIGH-GAIN ANTENNA)	Up to 10 miles (16 km)
TRANSMIT POWER OUTPUT	50 mW (17 dBm)
INTERFACE DATA RATE (SOFTWARE SELECTABLE)	10 - 57600 bps (including non-standard baud rates)
THROUGHPUT DATA RATE	9,600 bps or 19,200 bps
RF DATA RATE	10,000 bps (@9,600 bps throughput data rate) or 20,000 bps (@19,200 bps)
RECEIVER SENSITIVITY	-105 dBm (@9,600 bps throughput data rate), -102 dBm (@19,200 bps)

POWER REQUIREMENTS

SUPPLY VOLTAGE	7 - 18V	5 - 12V
RECEIVE CURRENT	90 mA @ 2.4 GHz	115 mA @ 2.4 GHz
TRANSMIT CURRENT	180 mA @ 2.4 GHz	200 mA @ 2.4 GHz
POWER-DOWN CURRENT	< 1 mA	50 mA

GENERAL

CONNECTION OPTIONS	RS-232/485 DB-9	USB
DIMENSIONS (L X W X H)	2.75 in x 5.50 in x 1.12 in (4.06 cm x 7.18 cm x 0.89 cm)	
WEIGHT	7.10 oz (200.00 g)	
OPERATING TEMPERATURE	0° C to 70° C (commercial) or -40° C to 85° C (industrial)	
ANTENNA OPTIONS	RPSMA (Reverse Polarity SMA)	
IMPEDANCE	50 ohms unbalanced	

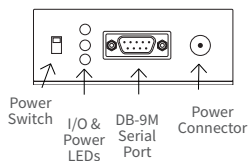
NETWORKING & SECURITY

OPERATING FREQUENCY	ISM 2.4000 - 2.4835 GHz
SPREAD SPECTRUM	FHSS (Frequency Hopping Spread Spectrum)
MODULATION	FSK (Frequency Shift Keying)
SUPPORTED NETWORK TOPOLOGIES	Peer-to-Peer (no master/slave dependencies), Point-to-Point, Point-to-Multipoint, Multidrop
NUMBER OF CHANNELS (SOFTWARE SELECTABLE)	7 Frequency Hopping Channels
NETWORK FILTRATION LAYERS	VID, Hopping Channel, Destination Address

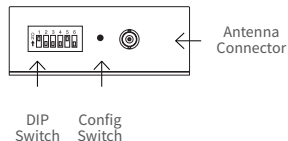
AGENCY APPROVALS

FCC PART 15.247	OUR-24XSTREAM
INDUSTRY CANADA (IC)	4214A 12008

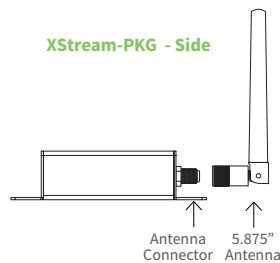
XStream-PKG-R - Front



XStream-PKG-R - Back



XStream-PKG - Side



PART NUMBERS	DESCRIPTION
X24-009PKC-U	XStream-PKG 2.4 GHz, 9600 baud, commercial, USB, no accessories
X24-009PKC-UA	XStream-PKG 2.4 GHz, 9600 baud, commercial, USB
X24-009PKI-R	XStream-PKG 2.4 GHz, 9600 baud, industrial, RS-232, no accessories
X24-009PKI-RA	XStream-PKG 2.4 GHz, 9600 baud, industrial, RS-232
X24-019PKC-U	XStream-PKG 2.4 GHz, 19200 baud, commercial, USB, no accessories
X24-019PKC-UA	XStream-PKG 2.4 GHz, 19200 baud, commercial, USB
X24-019PKI-R	XStream-PKG 2.4 GHz, 19200 baud, industrial, RS-232, no accessories
X24-019PKI-RA	XStream-PKG 2.4 GHz, 19200 baud, industrial, RS-232

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