

50 MW/2.4 GHZ STAND-ALONE RADIO MODEMS

XSTREAM® RF MODEMS



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 del ivery
- Easy out-of-the-box operation no configuration necessary
- Durable industrial grade enclosure

RELATED PRODUCTS







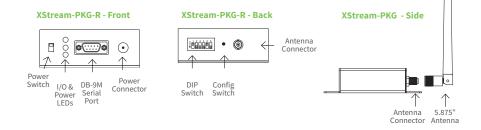






APPLICATION EXAMPLE PC INSIDE **RETAIL STORE** XSTREAM®-PKG **RADIO MODEM** RADIO MODEM

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		





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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