1 WATT/900 MHZ **OEM RF MODULES**

XTEND[®] OEM RF MODULES

DIG

Long-range wireless modules enable communication from UART serial data with peer-to-peer, point-to-multipoint, repeater and DigiMesh® networking topologies

The XTend OEM RF module provides unprecedented range in a low-cost wireless data solution. The module is easy to use, requires minimal power, provides reliable delivery of critical data between devices and is now available in the even smaller Digi XBee® Surface Mount form factor to save valuable PCB space.

The XTend module utilizes FHSS (Frequency Hopping Spread Spectrum) agility to avoid interference by hopping to a new frequency on every packet transmission or re-transmission. Its transmit power is software adjustable from 100 mW to 1 W—the maximum output power allowable by governments that use 900 MHz as a license-free band. The XTend module is approved for use in the United States, Canada, Australia and other countries (contact Digi for a complete listing).

Innovations stamped in its design enable the XTend module to supply two- to eight-times the range of other modules operating within the unlicensed 900 MHz frequency band. The range gained by OEMs and integrators is due to proprietary technologies embedded into each module, including superior RX (receiver) sensitivity, interference immunity, modulation/demodulation techniques and others.

BENEFITS

- Indoor/urban range up to 1000 feet*
- Outdoor line-of-sight range up to 40 miles* (with high gain antenna)
- Outstanding receiver sensitivity (-110 dBm @ 9600 bps)
- Peer-to-peer, point-to-multipoint, repeater and DigiMesh networking topologies
- Adjustable power output from 100 mW to 1 W; up to 4 W EIRP (with 6 dBi antenna)
- Available in the XTend and Digi XBee SMT form factors

APPLICATION EXAMPLE HIPPING YARD RF MODEM

900 MHZ MODULE

Embedded into GPS/Datalogger

RF Modem

RELATED PRODUCTS

X2

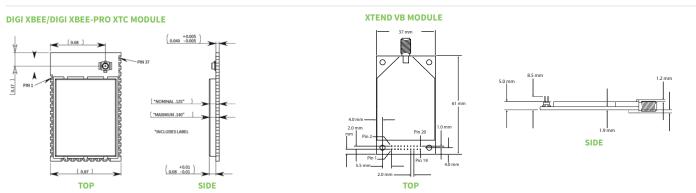
ConnectPort[®] Digi XBee[®] 900HP

Digi XBee-PRO® 900HP Module

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SPECIFICATIONS	XTend® VB Module	Digi XBee®-PRO XTC Module	Digi XBee® XTC Module
PERFORMANCE			
FREQUENCY RANGE	ISM 902 – 928 MHz		
INDOOR/URBAN RANGE *	Up to 1000 feet (305 m) with 2.1 dB dipole antenna		Up to 360 ft (110 m)
OUTDOOR RF LINE-OF-SIGHT RANGE*	Up to 40 miles (64 km) with high gain antenna; Up to 14 miles (22 km) with 2.1 dB dipole antenna		Up to 5 miles with high gain antenna
TRANSMIT POWER (SOFTWARE SELECTABLE)	100 mW - 1 W (20 - 30 dBm)		Up to 13 dBm
INTERFACE DATA RATE	1,200 - 230,400 bps (including non-standard baud rates)		
RECEIVER SENSITIVITY (1% PER)	-110 dBm (@9,600 bps throughput data rate), -100 dBm (@115,200 bps)		
RF DATA RATE	10 kbps to 125 kbps		
HARDWARE INTERFACE	20 pin 2 mm pitch header	37 castellated SMT pads	
SIZE	3.7 cm x 6.1 cm x 4.8 cm	3.38 cm x 2.21 cm x 1.29 cm	
ANTENNA OPTIONS	MMCX, RPSMA	RF Pad, U.FL	
NETWORKING AND SECURITY			
SPREAD SPECTRUM	FHSS (Frequency Hopping Spread Spectrum)		
MODULATION	FSK (Frequency Shift Keying)		
SUPPORTED NETWORK TOPOLOGIES	Point-to-Point, Point-to-Multipoint, Repeater, Mesh		
CHANNEL CAPACITY	10 hop sequences share 50 frequencies		
ENCRYPTION	256-bit / 128-bit AES		
POWER REQUIREMENTS			
SUPPLY VOLTAGE	2.8 - 5.5 VDC	2.6 - 3.6 VDC	2.4 - 3.6 VDC
RX CURRENT	35 mA @ 5V	40 mA @ 3.3V	
TRANSMIT CURRENT	Up to 710 mA @ 30 dBm	Up to 900 mA @ 30 dBm	Up to 55 mA @ 13 dBm
SHUTDOWN MODE POWER DOWN	1 µA typical		
PIN SLEEP POWER DOWN	< 147 µA	2.5 uA	
CYCLIC SLEEP (IDLE CURRENT)	0.3 – 0.8 mA (16 sec cyclic sleep)		
ENVIRONMENTAL			
OPERATING TEMPERATURE	-40° C to 85° C (Industrial)		
CERTIFICATIONS			
FCC ID (U.S. CERTIFICATION PART 15.247)	MCQ-XBPSX	MCQ-XBPSX	MCQ-XBSX
IC ID (CANADA)	1846A-XBPSX	1846A-XBPSX	1846A-XBSX
C-TICK (AUSTRALIA)	RCM		

LINE ART



*Range figure estimates are based on free-air terrain with limited sources of interference. Actual range will vary based on transmitting power, orientation of transmitter and receiver, height of transmitting antenna, height of receiving antenna, weather conditions, interference sources in the area, and terrain between receiver and transmitter, including indoor and outdoor structures such as walls, trees, buildings, hills, and mountains. DIGI

WWW.DIGI.COM

PART NUMBERS

DESCRIPTION

YEEND VEB MODULESYETPB-DMS-0019XTend Replacement, DigiMesh, RPSMA, North AmericaXTP9B-DMM-0019XTend Replacement, DigiMesh, MMCX, North AmericaXTP9B-DPS-0019XTend Replacement, P2MP, RPSMA, North AmericaXTP9B-DPM-0019XTend Replacement, P2MP, RPSMA, North AmericaXTP9B-DPS-7219XTend Replacement, P2MP, MMCX, North AmericaXTP9B-DPM-7219XTend Replacement, P2MP, MMCX, 128 AES AustraliaDIGI XBEE/POIGI XBEE-PRO XTC (XTEND CONSTRUCT)9XTend Replacement, P2MP, MMCX, 128 AES AustraliaDIGI XBEE/DIGI XBEE-PRO XTC (XTEND CONSTRUCT)Digi XBee-PRO XTC, 1W, DigiMesh, SMT, RF Pad, North AmericaXBP9XT-DMRS-001Digi XBee-PRO XTC, 1W, DigiMesh, SMT, RF Pad, North AmericaXBP9XT-DMUS-001Digi XBee-PRO XTC, 1W, DigiMesh, SMT, RF Pad, North AmericaXBP9XT-DMUS-001Digi XBee-PRO XTC, 1W, DigiMesh, SMT, RF Pad, North AmericaXBP9XT-DMUS-001Digi XBee-PRO XTC, 1W, DigiMesh, SMT, UFL, North AmericaXBP9XT-DMUS-001Digi XBee-PRO XTC, 1W, P2MP, SMT, UFL, North AmericaXBP3XT-DMUS-001Digi XBee-YRO XTC, 1W, P2MP, SMT, UFL, North AmericaXB9XT-DMUS-001Digi XBee XTC, 20 mW, DigiMesh, SMT, RF Pad, North AmericaXB9XT-DMUS-001Digi XBee XTC, 20 mW, P2MP, SMT, RF Pad, North AmericaXB9XT-DPUS-001Digi XBee XTC, 20 mW, P2MP, SMT, RF Pad, North AmericaXB9XT-DPUS-001Digi XBee XTC, 20 mW, P2MP, SMT, RF Pad, North AmericaXB9XT-DPUS-001Digi XBee XTC, 20 mW, P2MP, SMT, UFL, North AmericaXB9XT-DPUS-001Digi XBee XTC, 20 mW, P2MP, SMT, UFL, North AmericaXB9XT-DPUS-001Digi XBee XTC, 20 mW, P2M	TARTNOMDERS		
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