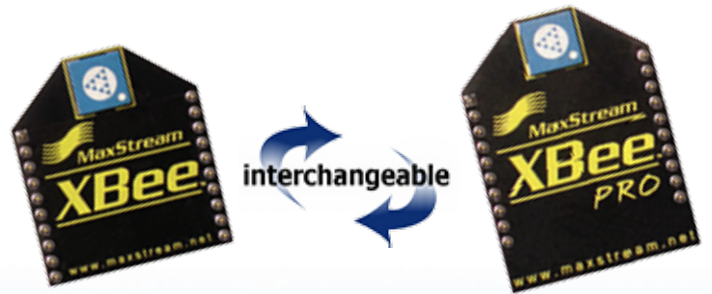


XBee™ OEM RF Modules

ZigBee™/802.15.4 OEM RF Modules by MaxStream, Inc.

XBee™

Indoor/urban Range:	100' (30 m)
Outdoor line-of-sight Range:	300' (100 m)
Transmit Power Output:	1 mW (0 dBm)
Receiver Sensitivity:	-92 dBm
Operating Frequency:	2.4 GHz
RF Data Rate:	250,000 bps



XBee-PRO™

Indoor/urban Range:	300' (100 m)
Outdoor line-of-sight Range:	4000' (1200 m)
Transmit Power Output:	100 mW (20 dBm)
Receiver Sensitivity:	-100 dBm
Operating Frequency:	2.4 GHz
RF Data Rate:	250,000 bps

RS-232 & USB
interface packages available

Easy-to-Use! No configuration is necessary for out-of-box RF operation. Simply feed data into one module; then the data is sent out the other end of the wireless link. If more advanced functionality is needed, the modules support an extensive set of AT commands.

Highlights



Price-to-Performance Value.

Due to innovations stamped in its design, the XBee-PRO yields 2-3x the range of standard ZigBee modules. This allows OEMs & integrators to cover more ground with fewer devices.

Additionally, XBee Modules are easy-to-use and therefore help reduce the cost of data system development.



Low Power Consumption.

XBee Modules require little power (40 mA TX current for the XBee, 250 mA for the XBee-PRO). Additionally, sleep modes are available that enable power-down currents that reach below 1 μ A.



Receiver Sensitivity.

MaxStream modules 'hear' what others cannot; therefore supplying greater range and reliability in wireless links.

For every 6 dBm gained in TX power or RX sensitivity, OEMs and integrators can double the range of a wireless link. XBee Modules outperform higher costing modules due in large part to range gained through superior RX sensitivity.



Worldwide Acceptance

FCC (U.S.A.), IC (Canada), ETSI (Europe)



Systems that contain XBee Modules inherit MaxStream's certifications. Contact MaxStream for a complete list of government agency approvals.

Sample Applications

Security systems & lighting controls



Home automation & building control



Home appliances & fire/CO2 alarms



Monitoring of remote systems



Sensor data capture in embedded networks



Call today!

- Free RF Consultation
- Volume Discounts
- Development Kit Pricing



MaxStream®

(866) 765-9885 toll-free in U.S. & Canada

(801) 765-9885 worldwide

www.maxstream.net

XBee™ & XBee-PRO™ 2.4 GHz OEM RF Modules

PRELIMINARY

Specifications

XBee



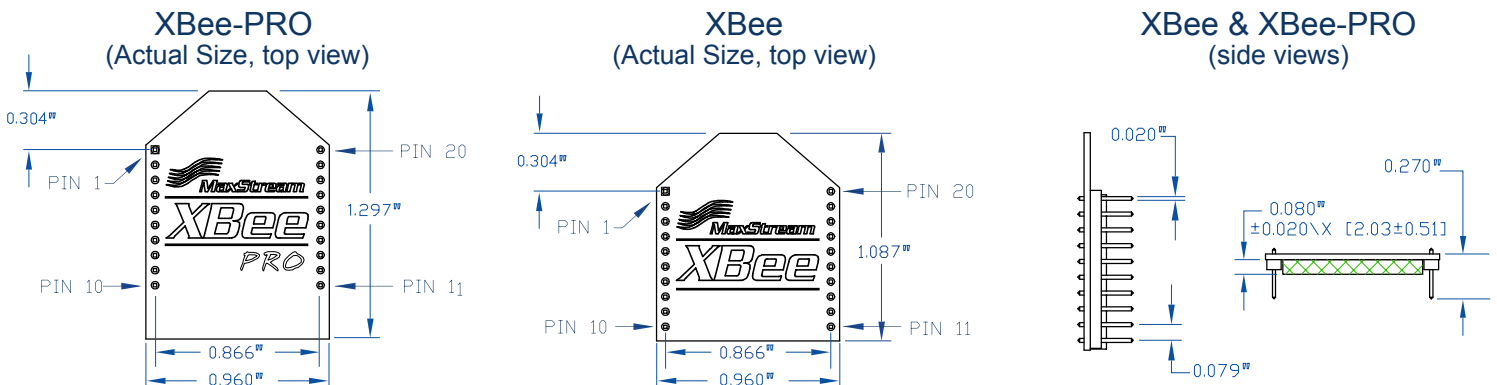
XBee-PRO



Performance	Indoor/Urban Range	up to 100 ft. (30 m)	up to 300 ft. (100 m)
	Outdoor RF line-of-sight Range	up to 300 ft. (100 m)	up to 4000 ft. (1200 m)
	Transmit Power Output	1 mW (0 dBm)	100 mW (20 dBm)
	RF Data Rate	250,000 bps	250,000 bps
	Receiver Sensitivity	-92 dBm (1% PER)	-100 dBm (1% PER)
Power Requirements	Supply Voltage	2.0 – 3.4 V	2.8 – 3.4 V
	Transmit Current	40 mA	250 mA @ 2.8 V
	Receive Current	45 mA	50 mA @ 3.0 V
	Power-down Current	< 1 μ A	< 1 μ A
General	Frequency	ISM 2.4 GHz	ISM 2.4 GHz
	Dimensions	0.960" x 1.087" (2.438cm x 2.761cm)	0.960" x 1.297" (2.438cm x 3.294cm)
	Operating Temperature	0 - 70 C° (commercial) or -40 to 85° C (industrial)	0 - 70 C° (commercial) or -40 to 85° C (industrial)
	Antenna Options	RF Connector, Chip Antenna, or Wire Antenna	RF Connector, Chip Antenna, or Wire Antenna
Networking and Security	Supported Network Topologies	Mesh, Peer-to-Peer (Point-to-Point), Point-to-Multipoint, Multidrop	Mesh, Peer-to-Peer (Point-to-Point), Point-to-Multipoint, Multidrop
	Number of Channels	16 Direct Sequence Channels (software selectable)	16 Direct Sequence Channels (software selectable)
	Network Filtration Layers	VID, Channel, Destination Address	VID, Channel, Destination Address
Agency Approvals	FCC Part 15.247	pending	pending
	Industry Canada (IC)	pending	pending
	Europe	pending	pending

Specifications are subject to change without notice.

Mechanical Drawings



MaxStream®

355 South, 520 West, ste. 180
Lindon, UT 84042

© 2005 MaxStream, Inc.

**For the best in wireless data solutions and support,
contact MaxStream, Inc.**

phone: (866) 765-9885 (toll-free in U.S. & Canada)
(801) 765-9885 (worldwide)

fax: (801) 765-9895

web: www.maxstream.net (live chat available)