



RF Field Modem - XT

Battery-powered, Wireless Serial Cable Replacement

Ad Hoc Electronics' 900 MHz Field Modem - XT is a self-contained, battery-powered RF transceiver. To provide the best combination of battery life and transmit power, the Field Modem supports up to 1000 mW transmit power output.



RF Field Modem - XT (900 MHz)

Handheld Wireless
for Long Range Applications

RELIABLE RANGE

- Battery-powered Long Range
up to 30 miles (RF line-of-sight)
up to 2200' (indoor/urban)
- -110 dBm Receiver Sensitivity (@9600 bps)
- ISM 900 MHz operating frequency

EASY-TO-USE

- MaxStream-compatible
(w/ 9XTend Radio Modems)
- Easy Configuration
- Low-power Operation

NETWORK DIAGRAM

The Field Modem XT in a typical point-to-point application

- PDA (or other RS-232 device) connects to the Field Modem via its serial port.
- Field Modem sends and receives signals, communicating with peer Field Modems.

No configuration is necessary for basic functions. The modems are configured to operate out-of-box.

Basic Point-to-point RF Link



Multipoint, Peer-to-peer & Mesh Networks also Supported

SPECIFICATIONS

Battery-powered Range (@500 mW power output)	up to 30 miles (RF line-of-sight) up to 2200' (indoor/urban)
Radio Frequency	902-928 MHz
Receiver Sensitivity	-110 dBm (9600 bps data rate) -100 dBm (115.2 kbps data rate)
Transmit Power	1mW - 500mW (when battery-powered) 1mW - 1W (when externally-powered)
Power Supply	Internal batteries 2xL91 (AA) or External 8-30 VDC, manually switched
Interface	RS-232/485 (RJ-45 connector)
Interface Data Rate	up to 230.4 kbps (user-settable)
Encryption	256-bit AES (FIPS-197 certified)
Dimensions	139mm (L) x 83mm (W) x 27mm (H) 5.48" x 3.26" x 1.06"
Ambient temperature*	-20° to +55°C (preliminary)
Storage temperature*	-40° to +85°C (preliminary)
Antenna	RPSMA (reverse-polarity SMA)
Certifications	FCC: OUR-9XTEND IC: 4214A-9XTEND
Part Number	XTX-232HP

Get up to 40 miles range when using external power and transmitting at 1 Watt!

SAMPLE APPLICATIONS



The Field Modem was engineered to provide system integrators the ability to add battery-powered nodes to MaxStream wireless networks.

- Data Acquisition
- Remote Monitoring
- Environmental Controls
- Private Networks
- Handheld Terminals

For Reliable Radio Modems & Dedicated Technical Support

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* Note: Battery life adversely affected by temperature extremes.