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XT-900S
Frequency Hopping Spread
Spectrum Modem



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XT-900S is a compact self contained Frequency Hopping Spread Spectrum Modem designed for robust and secure wireless communications for various applications such as AMR, POS, Telemetry, SCADA and REM. The modem has a built-in rechargeable battery pack that allows temporary operation in case it is removed from AC. XT-900S can be configured for point-to-point, point-to-multipoint or store and forward mode for maximum coverage. XT-900S comes with a 3 dBi omnidirectional antenna and wall mount power supply.

Communication with XT-900S is through a asynchronous serial port supporting a configurable RS-232 interface with baud rates between 9600 and 115.2K.

With a maximum throughput of 172.6 kbps, ability to support point-to-point and point-to-multipoint networks, easy to use GUI, and a selectable output power range of 100mW to 500Mw, XT-900S provides the most robust and cost effective communications link in the industry.

To extend coverage, XT-900S can be configured to support store and forward function while operating as a node.

XT-900S operates in the 900 MHz unlicensed band and is FCC and IC certified.

- 54 hopping channels
- Maximum over-the-air data rates of 172.8 kbps
- Maximum I/O data rates of 115 Kbps
- RS-232 asynchronous serial interface
- -104 dBm receiver sensitivity
- License free application
- Immune to multipath fading and jamming
- Small self contained package
- Easy-to-use configuration GUI
- Interfaces easily with third party cellular modems for optimum remote monitoring and control



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Electrical Specifications

Frequency Band	902 to 927 MHz
Operating Range	>15 miles LOS with 3 dBi antenna
Number of Channels	54
I/O Data Rates	Up to 115.2 Kbps
Error Detection and Correction	24 bit CRC and ARQ
RF Channel Rate	172.6 Kbps
Modulation Type	GFSK
Channel Access protocol	CSMA and TDMA
Data Interface	Async RS-232
Transmit Power	100mW to 500mW, software selectable
Receive Sensitivity	-104 dBm for 10⁻⁵ BER
Supply Voltage	9-30V

Mechanical Specifications

Case Material	Extruded Aluminum
Dimensions	4" X 4" X1.4"
Weight	9 oz.
Antenna Connector	Reversed SMA
Antenna height	7"
Data Connector	DB9
Power Connector	2 terminal connector
Operating Temperature	-40°C to +70°C
Humidity	95%@ +40°C