



## *General Purpose 900 MHz./2.4GHz. Spread Spectrum Frequency Hopping Transceivers*

The Point Transceiver is a general purpose compact data transceiver perfect for those needing high performance and dependable operation. It's wireless modem transfers data at 9600 or 19200 baud up to ¼ mile in a city environment or greater than 10 miles line-of-sight with a directional antenna.

It is ideally suited for applications in supervisory control and data acquisition (SCADA), remote meter reading, home automation, security, instrument monitoring, point of sale systems (POS) and myriad other applications.

Transceiver modules have built-in support for multi-drop networking protocols. Multiple independent networks can operate in the same vicinity by using distinct network identifiers.

The radios integrate quickly and seamlessly into any new or existing design. Simply output serial data from an microcontroller or RS-232 port into the radio to send FCC approved, frequency hopping spread spectrum data through the air and capture it on all receivers within range on the same network. The system behaves as a virtual half-duplex parallel-wired network.



<b>General</b>	<b>Model TZR</b>
Frequency Range	900 MHz. / 2.4 GHz., unlicensed ISM Band
Type	Frequency Hopping Spread Spectrum Transceiver
Frequency Control	Direct FM
Transport Protocol	Various Monitoring and Addressing Modes
Channel Capacity	Hops through 25 channels. Features 7 diff. hop sequences. 65,000 network identifiers.
Serial Data Interface	Asynchronous CMOS (TTL) signals, 5V levels
Serial Interface Baud Rate	Configurable from 2400-57600 bps
Data Throughput	9600 bps
Network Topology	Point – multipoint, point-to-point multi-drop transparent networking

<b>Performance</b>	
Channel Data Rate	10k
Transmit Power Output	100mW
Rx Sensitivity	-110dBm
Range*	Indoor: 600' to 1500' Outdoor: 7 mi. with dipole, over 20 mi. with high gain antenna
Interface Rejection	70 dB at pager and cellular phone frequencies

\*Range calculations are for 9600 baud line of sight. Actual range will vary based upon specific antenna selection and environment