Simrex Corporation SPE Spread Spectrum Modems



SIMREX..Global wireless solutions. Unlicensed Wireless Data

For almost 2 decades, SImrex Corporation's wireless products have been providing wireless networking solutions with applications in SCADA, telemetry, telecommunications, mobile data and online transaction markets. Simrex Corporation provides licensed and unlicensed solutions, installed worldwide.

Product Overview

The SP-900E and SP-2.4E are ideal for networking remote ethernet-enabled devices to the LAN. For applications that require performance of 115kbps at up to 20 miles, the SP-900E and SP-2.4E provide significantly longer-range data transfer than typical wireless ethernet products.

The proprietary radio technology used in the SP-900E and SP-2.4E excels in the most demanding RF and physical environments.

A typical application is to bridge remote ethernet PLC's to the LAN. Transparent MAC address filtering ensures that no local ethernet traffic is transmitted over the RF channel, thus providing optimal data throughput and seamless integration of the PLC with the network.

FEATURES

- · Extremely robust long range frequency-hopping data radio
- Very high performance and noise rejection allowing reliable communication in high power cellular and paging environments
- License-free operation in the 902-928 MHz or 2.4000-2.4835 GHz ISM bands
- · Industrial temperature specification
- Supports point to point, point to multipoint, repeater and diagnostics modes
- IEEE 802.3 compliant
- Convenient and easy to use configuration menu is provided through a separate serial port. The SP-900E & SP-2.4E also support remote configuration
- · Internal CRC and auto re-transmit ensures reliable transmission

APPLICATIONS

- · Industrial Wireless Networking
- · Ethernet PLC's
- Telemetry

- · Remote Monitoring
- · Wireless Internet
- Display Signs

Many More

SP-900E & SP-2.4E Wireless Spread Spectrum Radio Specifications

equency Hopping V User Configurable 08dBm 5 kbps uncompressed 2 Miles 0 dB out of band; 60 dB in band; 0 dB adjacent channel pint to Point, Point to Multipoint, epeater 66 frames o to 10,000 addresses
V User Configurable 08dBm 5 kbps uncompressed 2 Miles 0 dB out of band; 60 dB in band; 0 dB adjacent channel pint to Point, Point to Multipoint, espeater 66 frames
08dBm 5 kbps uncompressed 2 Miles 0 dB out of band; 60 dB in band; 0 dB adjacent channel 0 bint to Point, Point to Multipoint, espeater 66 frames
5 kbps uncompressed 2 Miles 3 dB out of band; 60 dB in band; 3 dB adjacent channel 2 bint to Point, Point to Multipoint, espeater 36 frames
Miles OdB out of band; 60 dB in band; OdB adjacent channel Dint to Point, Point to Multipoint, epeater 66 frames
o dB out of band; 60 dB in band; dB adjacent channel bint to Point, Point to Multipoint, epeater
odB adjacent channel pint to Point, Point to Multipoint, epeater 66 frames
66 frames
o to 10,000 addresses
user selectable
emote control, statistics, diagnostics
Sbit CRC with optional FEC
Base-T, RJ45
S-232, 9600 baud, DB9F
to 30 VDC
20mA max at 12V and 1W Tx ower; 310mA typ. at 12V and V Tx Power
0 to +75 C; 5-95% non-condensing
ktruded aluminum, powder coat, 75" x 4.25" x 1.72"
oprox. 420 grams (0.9 lbs)
everse gender TNC

SIMREX CORPORATION

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