

SIMREX Corporation

SIMPAC - Mobile Data Radio

WIRELESS mobile DATA

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SIMREX..Global wireless solutions.

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

SIMREX Corporation's SIMPAC Mobile Data Radio is designed for point to point or point to multipoint networks to handle reliable high speed data up to 9,600 baud. SIMPAC is also designed for Spectrum/Network efficiency to allow the maximum number of subscribers on the network.

FEATURES

- Baud Rates: Over the air (1200 to 9,600 bps), serial (1200 to 38,400 bps)
- TCP / IP (optional)
- B.E.R. Rate -112db @ 10^{-6} (9600 Baud), Receiver Sensitivity -117db @ 12dB SINAD (9600 Baud)
- Available Frequencies: 65-90 MHz, 136-270 MHz, 330-530 MHz, 800-870 MHz TX / 851-870 MHz RX
- Interfacing with TTL, RS232/422/485
- Repeating (Store & Forward)
- Asynchronous/Synchronous
- Transparent Mode (Packetized, Continuous, Forward Error Correction)
- 5 & 25 Watt (15W for 800 MHz) Integrated Power Amplifier
- Supports point-to-point and point-to-multipoint, repeater operation with user-configurable addressing

APPLICATIONS

- SCADA (Oil & Gas, Utilities)
- Display Signs
- Automatic Vehicle Location (AVL)
- DGPS Guidance
- Mining
- Public Safety
- Surveying
- Many More

SIMPAC Specifications

RADIO SPECIFICATIONS		GENERAL SPECIFICATIONS	
FREQUENCY RANGES		Operating Voltage	10.6 - 16.0 VDC
65-90 MHz		TX Current Consumption	6.3 A
136-270 MHz		RF Connector	Mini UHF (others on request)
330-530 MHz		Operating Temperature	-30 C to +60 C
800 - 870 MHz TX 851 - 870 MHz RX		Size	6.5"W x 4.0"H x 7.5"D

RECEIVER SPECIFICATIONS		TRANSMITTER SPECIFICATIONS	
Type	Triple Conversion Superheterodyne	Spurious Emissions	-80 dB
Spurious Response	80 dB	FM Hum and Noise	-39 dB
Intermodulation	75 dB	Power Output	<530 MHz 5/25W >530 MHz 5/15W
Sensitivity	-117db @ 12dB SINAD (9600 Baud)	B.E.R. Rate	-112db @ 10 ⁻⁶ (9600 Baud)

MODEM SPECIFICATIONS	
Forward Error Correction	SIMREX Proprietary Variable Interleave FCC that is user adjustable to match data and minimize wasted air time
Robust Frame Sync	Will synchronize even if 75% of sync field is faded or interfered with
User I/O	RS-232 DCE, 300-38400 BPS
Over the Air Baud Rate	1200, 4800, 9600 BPS

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SIMREX products are manufactured under a quality system certified to ISO 9001. SIMREX reserves the right to make changes to specifications of products described in this data sheet at any time without notice and without obligation to notify any person of such changes.

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