



DATA-LINC GROUP™
The Industrial Data Communication Experts

SRM6030

LONG-RANGE 900 MHz FHSS SERIAL RADIO MODEM



Data-Linc's SRM6030 is a serial radio modem that offers superior reliability, versatility and performance for wireless serial data communications. This latest version offers improved hardware with a faster processor, while maintaining Data-Linc's commitment to backward compatibility with its corresponding legacy versions, such as the acclaimed SRM6000 and its variations.

Like its predecessors, the SRM6030 Serial radio module employs Smart Spectrum™ FHSS (Frequency Hopping Spread Spectrum) technology in the 900MHz ISM frequency band for robust communications. This allow customers to implement a proprietary wireless network in high RFI/EMI noisy environments, including areas with existing wireless infrastructure, bringing the benefit of exceptional data integrity.

The SRM6030 is software configurable and has a secondary DB9 serial port for independent access to configuration and diagnostics software. For customer convenience and first-line diagnostics, the front panel includes LED status lights that provide direct access to critical information.

As with all members of the SRM Family of license-free SmartSpectrum™ Radio Modems, the SRM6030 supports both point-to-point and point-to-multipoint network topologies with virtually unlimited number of radios. Each radio can be individually configured as Master, Remote, Repeater and Remote/Repeater, through the included Config-Linc™ Software.

The SRM6030 not only provides superior security through AES 256 encryption but also offers a long distance range of 25 miles (40Km) with omni antennas and line-of-sight, farther with Repeaters and/or high gain antennas.

FEATURES

- 900MHz ISM band, license-free ISM
- Range of up to 25 miles (40Km)*
- Smart Spectrum™ Technology for maximum data integrity, even in noisy environments
- RS232/485 data port
- AES 256 encryption
- Additional RS232 DB9 port for configuration and diagnostics
- Operates as Master, Remote, Repeater and Remote/Repeater
- User adjustable hop patterns and frequency zones for refined operation of close proximity networks
- Replaces any serial SRM modem
- Supports LincView™ network diagnostics software(included)
- Factory custom-configured for easy installation
- Din rail mount clip (optional)

* with omni antennas and line-of-sight, farther with Repeaters and/or high gain antennas

APPLICATIONS

- PLCs located on moving machines like stackers, reclaimers, overhead cranes or any other mobile equipment
- SCADA systems for several different industries, such as water/wastewater, power and oil & gas
- Off-shore & underground communications
- Networks on high RFI/EMI environments
- Telemetry



SRM6030 SPECIFICATIONS

License-free, 900 MHz serial radio modem

Included

CD Config-Linc™ configuration software
Test antenna
Power supply
User Guide

Transmitter

Rated Range 25+ miles (40+ km), LOS (line-of-sight) with omni directional antennas*
Output Power 1 Watt maximum, 10 programmable steps up to 1 Watt /+30 dBm
Modulation Spread Spectrum, GFSK
Spreading Code Frequency Hopping
Hop Patterns 15 (user selectable)
Occupied Bandwidth 230 KHz

Receiver

Sensitivity -108 dBm @ 115.2 Kbps for BER10⁻⁴;
-103 dBm @ 153.6 Kbps for BER10⁻⁴
Selectivity 40 dB @ fc ±230 KHz;
60 dB @ fc ±460 KHz
System Gain 138 dB

RF Data Transmission

Data Throughput 1200 Baud - 115.2 Kbaud
Error Detection 32-Bit CRC
Data Encryption AES 256-bit

Interface

RS-232/RS-485 Data ports
RS-232 Separate diagnostic/configuration port

Antenna

Standard thread SMA female
Supplied bench test antenna
Nominal Impedance 50 Ω

Power

Input Voltage 10-28 VDC; wall mount
12 VDC /115-230 VAC power supply included
Transmit Current 650 mA @ 12 VDC (8 Watts)
Receive Current 100 mA @ 12 VDC (1.2 Watts)

Operating Modes

Master, Remote, Repeater, Repeater/Remote

Configuration Software

Config-Linc software included

Diagnostics

RS232 DB9 LincView™ diagnostics for RF network monitoring
Front panel LEDs Power, RF Carrier, RF Out, RF In, LAN (Link-Act), Mode LEDs x 4

Operating Environment

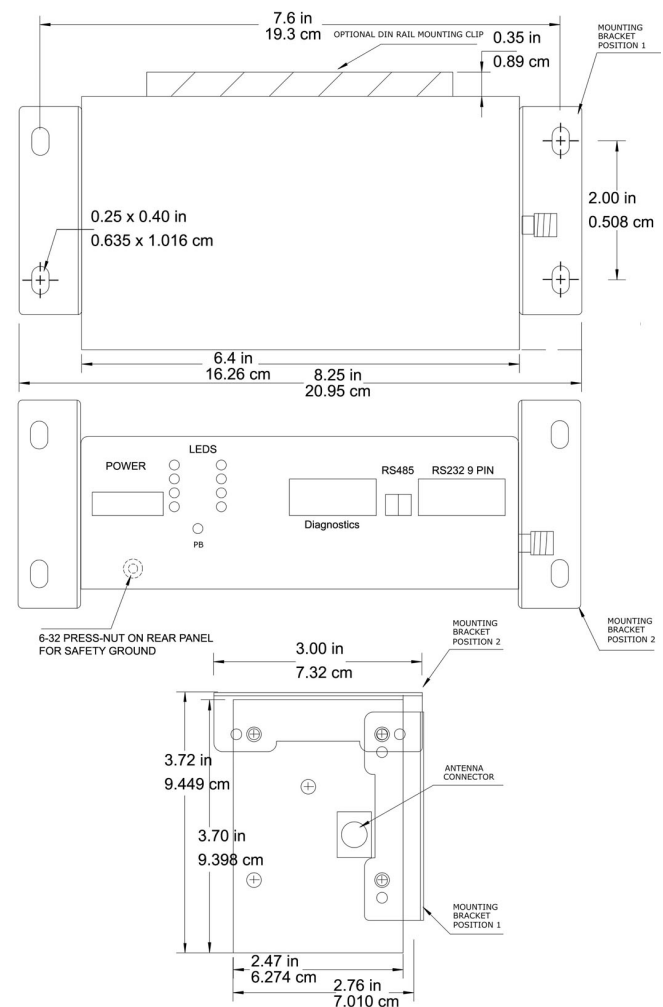
Temperature -40° to 167° F (-40° to 75° C)
Humidity 0 to 95% non-condensing humidity

Enclosure

Standard 18 gauge steel
2.47 X 3.70 X 6.4 in. (6.274 X 9.398 X 16.26 cm)
Included Optional DIN rail mounting flanges (3)
Weight 1.8 lbs (.82kg)

* farther with Repeaters and/or high gain antennas

SRM6030 DIMENSIONS



Note: Mounting bracket can be mounted in 4 positions on end plate for multiple mounting options.

PARTNERSHIPS



GE Fanuc



OMRON



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