

SRM6330

LONG-RANGE 2.4 GHz FHSS ETHERNET RADIO MODEM



Data-Linc's license-free SRM6330 Ethernet radio modem offers exceptional reliability, versatility and performance for Ethernet wireless data communications. This latest version offers improved hardware with a faster processor, while maintaining Data-Linc's commitment to backward compatibility with its corresponding Ethernet legacy SRM6320, SRM6310E and SRM6300E versions.

Like its predecessors, the SRM6330 Ethernet radio module employs SmartSpectrum™ FHSS (Frequency Hopping Spread Spectrum) technology. Along with operating in the 2.4 GHz ISM frequency band, customers benefit by the assurance of an ultra reliable, robust, proprietary wireless network with the benefit of exceptional data integrity even in noisy high RFI/EMI environments— including areas with existing wireless infrastructure.

The SRM6330 is software configurable. Data-Linc's proprietary *Set-Linc*™ software, that is included with the SRM6330 modems, simplifies modem setup and configuration. The 10/100 Auto-MDIX Ethernet ports not only support data transfer but also provide access for the configuration software. Configuration is also available via a separate DB9 serial port. 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 SRM6330 supports both point-to-point and point-to-multipoint network topologies and a virtually unlimited number of radios. Each modem can be individually configured as Master, Remote, Repeater and Remote/Repeater, through the included *Set-Linc*™ software.

FEATURES

- 2.4 GHz license-free ISM band
- Range of 10 miles (16 km)
- SmartSpectrum™ technology for maximum data integrity, even in noisy environments
- 10/100 Auto-MDIX Ethernet port
- AES 256 encryption
- RS-232 DB9 configuration port
- Configurable as Master, Remote, Repeater and Remote/Repeater
- User adjustable hop patterns and frequency zones for exceptional performance in close proximity networks
- Replaces any legacy 2.4 GHz Ethernet SRM series radio modem
- User assignable IP address
- Factory custom-configured for easy, trouble-free installation
- Optional DIN rail mounting

The SRM6330 not only provides superior security through AES 256 encryption but also offers a long-distance range of up to 10 miles (16 km) with line-of-sight, farther with Repeaters and/or high gain antennas.

APPLICATIONS

- PLCs on mobile equipment— stackers, reclaimers, overhead cranes, etc.)
- SCADA systems— water/wastewater, power, oil & gas, etc.
- Underground and off-shore communications
- Networks in high RFI/EMI environments
- Telemetry

SRM6330 SPECIFICATIONS

Operating Frequency

License-free 2.4 GHz Ethernet radio modem

Included

- CD *Set-Linc*[™] configuration software
- User Manual
- Test antenna
- Ethernet CAT-5 cable
- Power supply Wall mount 115-230 VAC supply, 12 VDC output

Transmitter

- Range 10 miles (16 km) with LOS & omni antennas
- Output Power 500 mW maximum, 10 programmable steps up to 500 mW (+27 dBm)
(Note: 100 mW EU version also available)
- Modulation Spread Spectrum, GFSK
- Spreading code Frequency Hopping
- Hop Patterns 15 (user selectable)
- Occupied Bandwidth 230 KHz

Receiver

- Sensitivity -105 dBm @ 115.2 Kbps for BER 10⁻⁴
-102 dBm @ 153.6 Kbps for BER 10⁻⁶
- Selectivity 20 dB at fc +/- 345 kHz
- System Gain 132dB

RF Data Transmission

- Data Throughput 115.2 Kbps – 153.6 Kbps
- Error Correction 32 bit CRC
- Data Encryption 256-bit AES

Interface

- 10/100 Auto-MDIX Ethernet port
- Serial Port RS-232 – DB9 female
RS-485 – terminal block

Antenna

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

Power

- Input Voltage 10-28VDC. Wall mount 12VDC/115-230VAC power supply included
- Transmit Current 650mA@12VDC (8W)
- Receive Current 167mA@12VDC (2W)

Operating Modes

- Master, Remote, Repeater, Remote/Repeater

Configuration Software

- Set-Linc*[™] included configuration software

Diagnostics

- Front panel LEDs Power, RF Carrier, RF Out, RF In, LAN (Link-Act), Mode LEDs x 4

Operating Environment

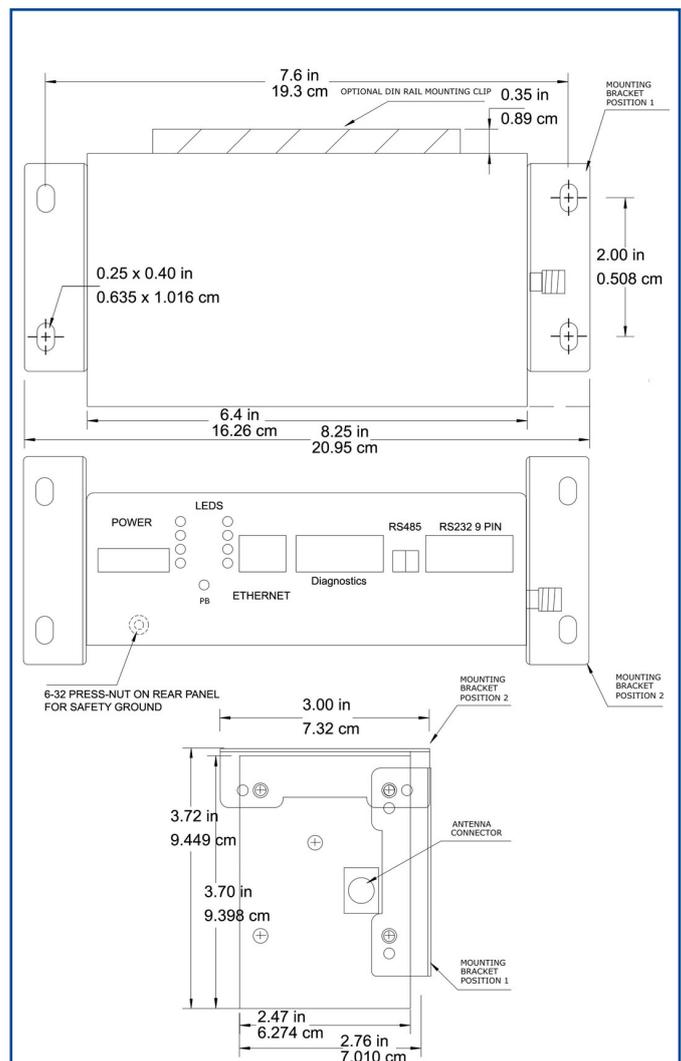
- Temperature -40° to 167° F (-40° to 75° C)
- Humidity 0 to 95% non-condensing

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 lb (0.82 kg)

SRM6330 DIMENSIONS



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

ALLIANCE PARTNERS



GE Fanuc



OMRON



Global



Field-proven performance ~ Industrial grade support
The industrial wireless communication experts

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