

# Adaptive Spectrum SRM8200 Specifications

Making connections with tomorrow's technology today

## License-free 900 MHz Band, Adaptive FHSS High-Speed, Long Range

### Included

5 ft CAT5 cable  
Bench-test whip antenna  
Power Supply 12 VDC, 2 Amp

### Transmitter

Frequency Range	902 to 928MHz ISM Band
Frequency - Special Locked	Australia, Brazil, Peru and New Zealand
Output Power	10mW to 1W (User selectable)
Range	40 miles/64 km
Hop Channels	Up to max 112 (User selectable)
Hop Pattern	Max 16, (User selectable)
Data Rates (User Selectable)	115.2, 250, 500 kbps, and 1 & 4 Mbps

### Receiver

System Gain 136dB,  
If Selective >40dB

### RF Data Transmission

RF Data Throughput & Sensitivity	(User selectable rate)		
	Rate	No FEC	w/ FEC
	115 kbps	-105 dBm	-108 dBm
	250 kbps	-102 dBm	-105 dBm
	500 kbps	-99 dBm	-102 dBm
	1 Mbps	-95 dBm	-98 dBm
	4 Mbps	-83 dBm	-86 dBm

Error Detection CRC, FEC and ARQ

Security 128-bit and 256-bit AES CCM

IP Filtering Reduces congestion by blocking non-RF Ethernet traffic

### Power Requirements/Consumption

Operating Voltage +10 to +36 VDC (+/- 10%)

Transmit Current 355 mA @ 12V

Receive Current 100 mA @ 12V

Encryption 128 & 256 AES CCM

### Diagnostics

Live & Local Network Map & Statistics

### Front Panel Interface

Ethernet Ports 1 & 2 10/100 Base-T

Serial Ports 1 & 2 DB9 RS232, Max 250 Kbps,

Micro USB Port Drag & Drop config and CLI (Command Line Interface)

Antenna Standard thread SMA female  
Supplied bench test antenna  
50  $\Omega$  Nominal Impedance

Power Supply Two-pin Phoenix terminal

Indicator LEDs Power, RF Link

### Advanced Features

Adaptive Spectrum Adaptive learning for superior performance in RF noise and congested environments

Forward Error Correction Ensures packet accuracy

Packet Aggregation & Compression

### Operating Environment

Temperature -40 to 167°F (-40 to 75°C)

Humidity 0 to 95% non-condensing

### Enclosure

Standard Cast aluminum with 2 optional, included mounting flanges

Optional DIN Rail Mount

Dimensions 6.50 in. x 4.21 in. x 2.09 in.;  
165mm x 107mm x 53mm

Weight 1.50 pounds/0.680 kg



Specifications subject to change without notice.  
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## NetworkNow™

Troubleshoot, reconfigure & and update firmware from any modem on your network with DATA-LINC's NetworkNow – Live Mapping & Config Tool for the Adaptive Spectrum SRM8200 Modem.

**Contact us:**  
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