

SCADA Pro 900 • Spread Spectrum Data Modem



The SCADA Pro 900 is a low cost, high performance spread spectrum data modem. A dual RS-232/RS-485 interface makes its installation and use quick and easy. The modem is FCC and Industry Canada approved.

Key Benefits

- Low cost
- Rugged DIN rail or panel mount enclosure
- Fast throughput (**50kbps RF data rate)
- Powerful Windows™ based path management software tracks 16 radios simultaneously
- Full duplex emulation
- Standard Interface
- Transparent or Guaranteed Point-to-Point or Point-to-Multi-Point data delivery modes
- Field upgradeable
- Programmable as a system repeater for extended range
- LED status indicators
- Compatible with CDR family of radios

Applications

- HVAC control
- Camera PTZ control
- Sign Control
- Vending
- SCADA systems
- Wireless Network Nodes
- Security systems
- Industrial controls
- Field area networks
- Most any application currently using an RS-232 or RS-485 serial connection

Specifications

Frequency	902-928 MHz
Frequency Control	PLL Synthesizer
Transport	Transparent
	Point-to-Point
	Point-to-Multipoint
	Multipoint-to-Multipoint
	Broadcast and Guaranteed Delivery
Data Interface	Asynchronous RS-232 or RS-485
Hopping Channels	50
Configuration	Windows™ Application
Addressing	65,025 Unique Addresses
Duty Cycle	100% Receive, 50% Transmit
Data Interface Rate	2400,4800,
	9600,19.2k,56k bps (N,8,1)
Temperature	-30 to +70 °C
Range*	up to 30 miles
Data Encoding	Proprietary Method
Receiver Sensitivity	-103 dBm
Modulation	Direct FM (FSK)
RF Data Rate	50 kbps
Data Flow Control	Hardware using CTS
Transmitter Output	1 Watt or 200mW
Error Detection	16-bit CRC
Input Voltage	9 – 28 VDC or 8-14 VDC
Input Current (1 watt)	115mA Receive Mode @ 12V
	75 mA Receive Mode @ 24V
	910 mA Transmit Mode @ 12V
	450 mA Transmit Mode @ 24V

Regulatory

United States (FCC)	CFR 15.247 Approved
Canada (IC)	RSS210 Approved

Mechanical

Size (W,L,H)	3.5" x 6.0" x 1.75"
Antenna Connector	Reverse SMA

Options

- 1 Watt, 9-28 volts (p/n SP900-1000)
- 200mW, 8-14 volts (p/n SP900-200)
- 200mW, 9-28 volts (p/n SP900-200, OPT-28)

Specifications are subject to change without notice. *The effective transmission range will vary based on antenna selection, installation location and other factors. **Due to data encoding, sustained throughput will be lower.