CDR-9150M • Spread Spectrum Data Modem

The CDR-9150M is a low cost, high performance spread spectrum data modem. An RS-232 or RS-485 interface makes its installation and use quick and easy. The modem is FCC and Industry Canada approved. Power supply is included.

Key Benefits

- Low cost
- Rugged plastic 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

Applications

- HVAC control
- Camera PTZ 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
Error Detection	16-bit CRC
Input Voltage	9 – 28 VDC
Input Current	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

Interface Options

- RS-232/485 (CDR-9150XLM-232/485)
- USB (p/n CDR-9150M-USB)

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.

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