

Spectra 910A



900 MHz Spread Spectrum Wireless Modem

Industry leaders for extremely robust and reliable license-free data transfer, the Spectra 910A provides up to 115kbps serial communications over distances up to 60 miles (100km). Flexible configuration options allow for various network topologies.

Applications

- SCADA
- Telemetry
- Vehicle Data/Tracking
- Utilities/Metering
- Display Signs
- Traffic Control
- Many More



Microhard Systems Inc.'s proprietary radio technology excels in the most demanding RF and physical environments.

The Spectra 910A is easily configured through a convenient AT Command serial interface. Users have the ability to deploy a wide range of network styles including repeaters and multipoint, The master site can diagnose the performance and modify the operating parameters of any remote slave unit.

Features of the Spectra 910A

- Up to 115 kbps continuous throughput
- Extremely robust long range frequency-hopping data radio
- Very high interference and noise rejection allowing reliable communication in high power cellular and paging environments
- Transparent communications and low latency adding little overhead
- Industrial Grade - extended temperature specification
- Supports Point-to-Point, Point-to-Multipoint, Repeater, TDMA,
- Supports TDMA mode through units configured as a repeater
- Adjustable transmit power (100mW - 1W)
- Repeater units can also act as a slave with no restriction on the number of repeaters in the system
- Internal CRC and user-selectable forward error correction ensures reliable transmission



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Specifications



Frequency	902 - 928 MHz	Connectors	Antenna Data	RP-TNC Female Bulkhead Female DE9 Locking screw connector
Spread Method	Frequency Hopping			
Output Power	1W user configurable	Environmental		-40°F to 185°F (-40°C to +85°C) 5-95% humidity, noncondensing
Sensitivity	-108 dBm			
Data Rate	1200 to 115.2 kbps uncompressed	Weight		Approx. 0.92lbs (420g)
Range	60+ miles (100+ km) (dependant on link rate and line of sight)	Dimensions		Approx. 4.755" x 3.75" x 1.75" (111mm x 95.3mm x 44.5mm)
Rejection	70dB out of band, 60dB in band, 50dB adjacent channel	Enclosure		Extruded Aluminum
Operating Modes	Point-to-Point, Point-to-Multipoint, Repeater, TDMA, Multimaster	Mount		Panel Mount
Hopping Patterns	64 user selectable	Approvals		FCC Part 15.247 IC RSS210
Diagnostics	Remote control, remote statistics, remote diagnostics	Order Options		
Error Detection	32 bits of CRC with optional FEC	-DIN		DIN rail mount kit
Data Interface	Async RS232, opt. RS-422/RS-485	-C1D2		Class 1 Div 2 (for use in hazardous environments)
RS-232 Signals	Gnd, TxD, RxD, CTS, RTS, DTR, DSR, DCD			
Input Voltage	10 to 30VDC			
Power Consumption	450mA max at 12V and 1W Tx Power; 250mA typ. At 12V and 1W Tx Power			
LED Indicators	Power, TX, RX, RSSI			

Contact Information

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