

# MHX910A



## High Volume OEM Industrial Wireless Modem

*The MHX910A frequency hopping 900 MHz spread spectrum communications module is the industry's most robust and cost effective means of providing embedded long-range data communications between industrial serial communication devices.*

### 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 MHX910A is an upgraded version of the MHX910 with features including lower power consumption and 1200 baud. Designed for high volume integration and unprecedented RF performance the MHX910A is the next evolution of the MHX910.

### Features of the MHX910A

- Extremely robust long range frequency-hopping data radio
- Compatible with MHX-910
- Low current consumption
- Industrial temperature specification
- Supports Point-to-Point, Point-to-Multipoint, Repeater, TDMA, Multimaster
- Maximum allowable transit power (1W)
- Repeater units can also act as a slave with no restriction on the number of repeaters in the system
- Internal 32 bits of CRC and user-selectable FEC
- High Voltage (HV) option for RS232, RS485/RS422

# MHX910A

# Specifications



Frequency	902 - 928 MHz	Antenna Connector	MCX				
Spreading Method	Frequency Hopping	Environmental	-40°F - +167°F (-40°C - +75°C) 5-95% humidity, noncondensing				
Output Power	Up to 1W user configurable	Weight	Approx. 2.6oz. (75 grams)				
Sensitivity	-106 dBm	Dimensions	Approx. 3.5" x 2.1" x .7" (89mm x 53.4mm x 17.8mm)				
Data Rate	1200 to 115.2kbps	Approvals	FCC Part 15.247 IC RSS210				
Range	Up to 60 miles line of sight with gain antenna	<h3>Order Options</h3> <table border="1"><tr><td>-C1D2</td><td>Class 1 Div 2 (for use in hazardous environments)</td></tr><tr><td>-HV</td><td>HV Option - High input voltage (12V to 30V) with RS232/485/422 Drivers</td></tr></table>		-C1D2	Class 1 Div 2 (for use in hazardous environments)	-HV	HV Option - High input voltage (12V to 30V) with RS232/485/422 Drivers
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Rejection	70dB out of band; 60dB in band; 50dB adjacent channel						
Operating Modes	Point-to-Point, Point-to-multipoint, Repeater, TDMA, Multimaster						
Hopping Patterns	64 user selectable						
Diagnostics	Remote control, remote statistics, remote diagnostics						
Error Detection	32 bits of CRC with optional FEC						
Data Interface	Asynchronous RS-232, 5V TTL levels						
RS-232 Signals	Gnd, TxD, RxD, CTS, RTS, DTR, DSR, DCD						
User Interface	AT Command Interface						
Status Signals	RX/Sync, TXMode, RSSI 1, 2, 3						
Operating Voltage	5V to 5.5VDC (9 to 30VDC, see -HV option)						
Current Consumption	550mA max at 1W Tx Power; 110mA typ. In Rx mode						

## Contact Information

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Microhard Systems Inc.  
#17, 2135 - 32nd Avenue N.E.  
Calgary, AB, Canada T2E 6Z3

Email: [info@microhardcorp.com](mailto:info@microhardcorp.com)  
Tel: (403) 248-0028  
Fax: (403) 248-2762



[www.microhardcorp.com](http://www.microhardcorp.com)