IP920 — Wireless Serial Data and IP/Ethernet Bridge

IP920 serial data and IP/Ethernet bridge is powered by a reliable high speed 900MHz FHSS radio. It provides robust wireless transportation for simultaneous serial data and IP/Ethernet packets to extend serial data devices and corporate IP networks.

Applications:

- *IP/Ethernet Wireless Extension*
- *Legacy Networks / Devices Migration*
- *Video / Voice over IP*
- *SCADA (PLCs, Modbus, HART)*
- *Military, Unmanned Systems*
- *GPS Vehicle Data/Tracking, DGPS*
- *Electric, Oil, & Gas Utilities/Metering*
- *Display Signs*

Proprietary radio technology excels in the most demanding RF and physical environments.

As a complete wireless solution for integrating industrial ethernet and serial devices into IP/Ethernet networks; the IP920 allows ethernet devices to share high speed wireless media and provides a wireless gateway for network applications to access serial devices. IP920 also features flexible maintenance utilities and network management facilities.

Features of the IP920

- Standard 340kbps wireless link rate
- Long-range, high-speed communications with excellent receiver sensitivity and robust frequency hopping
- User-selectable Tx power from 100mW to 1W (2W option for military, see option 150)
- Two serial ports with RS232/485/422
- Point-to-point, Point-to-Multipoint, Repeater and Peer-to-Peer
- Bringing industrial data into IP/Ethernet networks
- Advanced serial port supports legacy serial devices including RTS, CTS, DSR, DTR and DCD signals
- User interface through local console, telnet, and web browser
- Network management capability with SNMP
- Local and remote firmware upgrading through FTP
- Sleep mode

Front/Back View

IP920	Specifications		
Frequency	902 - 928 MHz	Power Supply	9VDC to 30VDC
Spread Spectrum	Frequency Hopping	Current (12VDC) Sleep Transmit Receive	6 mA 600 mA 95 mA
Link Rate	345kbps		
Hopping Patterns	automatically generated	Connectors Antenna Data	Reverse gender TNC RS-232 DB-9F Locking terminal connector RJ-45
Hopping Channels	50/Pattern		
Error Detection	32bit CRC, ARQ		
Data Encryption	128 bit / 256 AES(non-export)		
Range	+60 miles (line of sight)	Environment	-40 °C to +75 °C 5-95% non-condensing
Sensitivity	-106 dBm	Weight	Approx. 420 grams (0.92 lbs)
Output Power	100mW to 1W (20~30dBm)	Dimensions	4.755" x 3.75" x 1.75"
System Gain	136dB	Enclosure	Extruded aluminum
Serial Port	RS232: RxD, TxD, RTS, CTS, DCD, DSR, DTR RS422: Tx+, Tx-, Rx+, Rx- RS485: 4 wire/2 wire Baud rate: 300bps to 230.4kbps Throughput: 230.4kbps	Mount	Panel mount

Order Options		
Option 100	DIN rail mount Kit	
Option 200	Class 1 Div 2 (for use in hazardous environments)	
Option 150	2 Watt output power for military and export only	

Ethernet	10/100 BaseT IEEE 802.3		
Network Protocols	TCP, UDP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, Serial over IP	Transmitter Type Acceptance upto 345kbps: FCC Part 15.247 IC RSS210	
Management	Local Serial Port Console, Telnet, WebUI,SNMP, FTP Up- grade		
Diagnostics	VSWR, Battery voltage, Temperature, RSSI, remote diagnostics		
Operating Modes	Point-to-Point, Point-to-Multipoint, Store&Forward Repeater, Peer-to- Peer		
Rejection	Excellent Strong Signal Interfer- ence & Rejection Characteristics		

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