

IP922



900 MHz FHSS Wireless Ethernet Bridge / Serial Gateway

The IP922 Wireless Ethernet Bridge / Serial Gateway is powered by a reliable high-speed 900 MHz FHSS radio with speeds of up to 1.9Mbps. It provides robust wireless communication of simultaneous serial data and IP/ Ethernet packets to extend serial data and IP networks.

Applications

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



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

A complete wireless solution for integrating industrial Ethernet and serial devices into IP/Ethernet networks. The IP922 allows Ethernet devices to share high speed wireless media and provides a wireless gateway for network applications to access serial devices. The IP922 also features flexible maintenance utilities and network management facilities.

Features of the IP922

- Very Fast, up to 1.9Mbps wireless link rate
- Robust Frequency Hopping
- Long range, high speed communications
- Excellent receiver sensitivity and Rejection
- Two serial ports: RS232 and RS232/485/422
- Supports Point-to-Point, Point-to-Multipoint, Repeater, Peer-to-Peer
- Adjustable transmit power (100mW - 1W)
- Radius Server Authentication
- Full VLAN Support
- User interface through local console, telnet, and web browser
- Network management capability with SNMP V1, V2, V3
- Local and remote firmware upgrading through FTP



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Specifications



Frequency	902 - 928 MHz	Input Voltage	9-30VDC
Spread Method	Frequency Hopping / DTS	Connectors	Antenna Data RP-TNC Female Bulkhead RS232 DB-9F, RJ45 Locking screw connector Ethernet RJ-45
Link Rate	345kbps/1.1Mbps/1.9 Mbps (User-Select)		
Error Detection	32 bits of CRC, ARQ	Environmental	-40°F to 170°F (-40°C to +75°C) 5-95% humidity, noncondensing
Encryption	128-bit WEP/WPA (Canada & USA only. NOT AVAILABLE for export, see -AES option)	Weight	Approx. 0.92lbs (420g)
Range	60+ miles (100+ km) @ 345kbps link rate, line of sight	Dimensions	Approx. 4.755" x 3.75" x 1.75" (121mm x 95.3mm x 44.5mm)
Sensitivity	-105dBm @ 345kbps link rate -98dBm @ 1.1Mbps link rate -95dBm @ 1.9Mbps link rate	Enclosure	Extruded Aluminum
Output Power	100mW - 1W (20-30dBm)	Mount	Panel Mount
System Gain	140dB w/Rubber Ducky antennas @ 345kbps link rate	Approvals	FCC Part 15.247 IC RSS210
Serial Interface	RS232: RxD, TxD, RTS, CTS, DCD, DSR, DTR RS422: Tx+, Tx-, Rx+, Rx- RS485: 4-wire/2-wire	Order Options	
Serial Baud Rate	300bps to 921kbps	-DIN	DIN rail mount kit
Ethernet	10/100 BaseT, IEEE 802.3	-C1D2	Class 1 Div 2 (for use in hazardous environments)
Network Protocols	TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, Serial over IP, QoS	-AES	128/256-bit AES Encryption, Secure Shell, HTTPS (Canada & USA only. NOT AVAILABLE for export)
Management	Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, RADIUS authentication, VLAN	-AU	Australian Hop Tables (915 to 928 MHz)
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer	-NZ	New Zealand Hop Tables (921 to 929 MHz)
Diagnostics	VSWR, Battery Voltage, Temperature, RSSI, and remote diagnostics		
Rejection	Excellent strong signal interference & rejection characteristics		

Contact Information

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