

## 900MHz Ethernet/Serial/USB Gateway

The IP921B 900MHz Wireless Ethernet/Serial/USB Gateway is powered by a reliable and high speed 900 MHz FHSS radio. It provides robust wireless communication of simultaneous RS232/485 Serial , USB and IP/ Ethernet data, resulting in a powerful solution to fit the needs of any wireless application.

Up to 1.1 Mbps

Up to 1 Watt

Low Latency

Extended Temperature

USB 2.0

RS232/485/422 Port



## Features

- Up to 1.1 Mbps wireless link rate
- Long range, high speed communications with excellent receiver sensitivity and robust frequency hopping
- Two serial ports: RS232 and RS232/485/422
- Master, Remote, and Repeater Modes
- Supports Point-to-Point, Point-to-Multipoint, Repeater, Peer-to-Peer
- Adjustable transmit power (100mW - 1W)
- Bringing industrial data into IP/Ethernet networks
- 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



# IP921B

# Specifications

<b>Frequency</b>	902 - 928 MHz	<b>Input Voltage</b>	9-30VDC	
<b>Spread Method</b>	Frequency Hopping / DTS	<b>Connectors</b>	<b>Antenna Data</b> RP-TNC Female Bulkhead 2 - RS232 DB-9F Locking screw connector RJ-45 (Ethernet) Mini-USB	
<b>Link Rate</b>	345kbps or 1.1Mbps (User-Select)	<b>Environmental</b>		-40°F to 185°F (-40°C to +85°C) 5-95% humidity, noncondensing
<b>Error Detection</b>	32 bits of CRC, ARQ	<b>Weight</b>		Approx. 0.92lbs (420g)
<b>Encryption</b>	128-bit WEP/WPA (Canada & USA only. NOT AVAILABLE for export, see -AES option)	<b>Dimensions</b>	Approx. 4.755" x 3.75" x 1.75" (121mm x 95.3mm x 44.5mm)	
<b>Range</b>	60+ miles (100+ km) @ 345kbps link rate, line of sight)	<b>Enclosure</b>	Extruded Aluminum	
<b>Sensitivity</b>	-106dBm @ 345kbps link rate -98dBm @ 1.1Mbps link rate	<b>Mount</b>	Panel Mount	
<b>Output Power</b>	100mW - 1W (20-30dBm)	<b>Approvals</b>	FCC Part 15.247 IC RSS210	
<b>System Gain</b>	140dB w/Rubber Ducky antennas @ 345kbps link rate	<b>Order Options</b>		
<b>Serial Interface</b>	RS232: RxD, TxD, RTS, CTS, DCD, DSR, DTR RS422: Tx+, Tx-, Rx+, Rx- RS485: 4-wire/2-wire	MHS100660	IP921B	
<b>Serial Baud Rate</b>	300bps to 921kbps	-DIN	DIN rail mount kit	
<b>USB</b>	USB 2.0 USB Console Port USB to Serial Data Routing USB to Ethernet Data Routing	-C1D2	Class 1 Div 2 (for use in hazardous environments)	
<b>Ethernet</b>	10/100 BaseT IEEE 802.3	-AES	128/256-bit AES Encryption, Secure Shell, HTTPS (Canada & USA only. NOT AVAILABLE for export)	
<b>Network Protocols</b>	TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, Serial over IP, QoS	-AU	Australian Hop Tables (915 to 928 MHz)	
<b>Management</b>	Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, RADIUS authentication, VLAN	-NZ	New Zealand Hop Tables (921 to 929 MHz)	
<b>Operating Modes</b>	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer			
<b>Diagnostics</b>	VSWR, Battery Voltage, Temperature, RSSI, and remote diagnostics			
<b>Rejection</b>	Excellent strong signal interference & rejection characteristics			

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