

# IP2420



## 2.4 GHz Wireless Ethernet Bridge / Serial Gateway

*The IP2420 Wireless Ethernet Bridge / Serial Gateway is powered by a reliable high-speed 2.4 GHz FHSS radio. 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 IP2420 allows Ethernet devices to share high speed wireless media and provides a wireless gateway for network applications to access serial devices. The IP2420 also features flexible maintenance utilities and network management facilities.

### Features of the IP2420

- Standard 345 kbps wireless link rate
- Long range, high speed communications with excellent receiver sensitivity and robust frequency hopping
- Two serial ports: RS232 and RS232/485/422
- Supports Point-to-Point, Point-to-Multipoint, Repeater, Peer-to-Peer
- Adjustable transmit power (100mW - 1W)
- Bringing industrial data into IP/Ethernet networks
- User interface through local console, telnet, and web browser
- Network management capability with SNMP V1, V2, V3
- Radius Server Authentication
- Full VLAN Support
- Local and remote firmware upgrading through FTP



# IP2420

# Specifications



Frequency	2.4000 - 2.4835 GHz	Input Voltage	9-30VDC
Spread Method	Frequency Hopping	Connectors	Antenna Data RP-TNC Female Bulkhead RS232 DB-9F, RJ45 Locking screw connector Ethernet RJ-45
Link Rate	345kbps		
Error Detection	32 bits of CRC, ARQ		
Encryption	128-bit WEP/WPA (Canada & USA only. NOT AVAILABLE for export, see – AES option)	Environmental	-40°F to 170°F (-40°C to +75°C) 5-95% humidity, noncondensing
Range	30+ miles (50+ km) line of sight	Weight	Approx. 0.92lbs (420g)
Sensitivity	-104dBm	Dimensions	Approx. 4.755" x 3.75" x 1.75" (121mm x 95.3mm x 44.5mm)
Output Power	100mW - 1W (20-30dBm)	Enclosure	Extruded Aluminum
System Gain	138dB w/Rubber Ducky Antennas 146dB w/6dBi Antennas	Mount	Panel Mount
Serial Interface	RS232: RxD, TxD, RTS, CTS, DCD, DSR, DTR RS422: Tx+, Tx-, Rx+, Rx- RS485: 4-wire/2-wire	Approvals	FCC Part 15.247 IC RSS210
Serial Baud Rate	300bps to 230.4kbps	<b>Order Options</b>	
Ethernet	10/100 BaseT IEEE 802.3	-DIN	DIN rail mount kit
Network Protocols	TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, Serial over IP, QoS	-C1D2	Class 1 Div 2 (for use in hazardous environments)
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer	-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		
Diagnostics	VSWR, Battery Voltage, Temperature, RSSI, and remote diagnostics		
Rejection	Excellent strong signal interference & rejection characteristics		

## Contact Information

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