

IP2421 OEM



OEM 2.4 GHz Wireless Ethernet Bridge / Serial Gateway

The IP2421 OEM 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 IP2421 OEM allows Ethernet devices to share high speed wireless media and provides a wireless gateway for network applications to access serial devices. The IP2421 OEM also features flexible maintenance utilities and network management facilities.

Features of the IP2421 OEM

- Standard 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
- Supports Point-to-Point, Point-to-Multipoint, Repeater, Peer-to-Peer
- Adjustable transmit power (100mW - 1W)
- Radius Server Authentication
- Full VLAN Support
- Bringing industrial data into IP/Ethernet networks
- User interface through local console, telnet, and web browser
- Network management capability with SNMP
- Local and remote firmware upgrading through FTP

Development Kit



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Specifications



Frequency	2.4000 - 2.4835 GHz	Input Voltage	9-30VDC
Spread Method	Frequency Hopping	Connectors Antenna Data Ethernet	MCX RS232 DB-9F, RJ45 Locking screw connector RJ-45
Link Rate	345kbps or 1.1Mbps (User-Select)		
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 185°F (-40°C to +85°C) 5-95% humidity, noncondensing
Range	30+ miles (50+ km) @ 345kbps link rate, line of sight	Weight	Approx. 5 oz. (142g)
Sensitivity	-104dBm @ 345kbps link rate -96dBm @ 1.1Mbps link rate	Dimensions	Approx. 4.98" x 3.50" x 0.87" (126.5mm x 88.9mm x 22.1mm)
Output Power	100mW - 1W (20-30dBm)	Approvals	FCC Part 15.247 IC RSS210
System Gain	138dB w/Rubber Ducky Antennas @ 345kbps link rate	Order Options	
Serial Interface	RS232: RxD, TxD, RTS, CTS, DCD, DSR, DTR RS422: Tx+, Tx-, Rx+, Rx- RS485: 4-wire/2-wire	-C1D2	Class 1 Div 2 (for use in hazardous environments)
Serial Baud Rate	300bps to 921kbps	-AES	128/256-bit AES Encryption, Secure Shell, HTTPS (Canada & USA only. NOT AVAILABLE for export)
Ethernet	10/100 BaseT IEEE 802.3		
Network Protocols	TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, Serial over IP, QoS		
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer		
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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Microhard Systems Inc.
150 Country Hills Landing N.W.
Calgary, AB, Canada T3K 5P3

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



www.microhardcorp.com