

2.4 GHz Ethernet/Serial/USB Gateway

The IP2421B 2.4 GHz Wireless Ethernet/Serial/USB Gateway is powered by a reliable and high speed 2.4 GHz 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



IP2421B

Specifications

Frequency	2.4000 - 2.4835 GHz	Input Voltage	9-30VDC
Spread Method	Frequency Hopping / DTS	Connectors	Antenna Data RP-TNC Female Bulkhead 2 - RS232 DB-9F Locking screw connector RJ-45 (Ethernet) Mini-USB
Link Rate	345kbps or 1.1Mbps (User-Select)	Environmental	
Error Detection	32 bits of CRC, ARQ	Weight	Approx. 0.92lbs (420g)
Encryption	128-bit WEP/WPA (Requires Export Permit, see -AES option)	Dimensions	Approx. 4.755" x 3.75" x 1.75" (121mm x 95.3mm x 44.5mm)
Range	30+ miles (50+ km) @ 345kbps link rate, line of sight)	Enclosure	Extruded Aluminum
Sensitivity	-104dBm @ 345kbps link rate -96dBm @ 1.1Mbps link rate	Mount	Panel Mount
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	MHS145120	IP2421B
Serial Baud Rate	300bps to 921kbps	-C1D2	Class 1 Div 2 (for use in hazardous environments)
USB	USB 2.0 USB Console Port USB to Serial Data Routing USB to Ethernet Data Routing	-AES	128/256-bit AES Encryption, Secure Shell, HTTPS (Requires permit for export outside Canada & USA)
Ethernet	10/100 BaseT IEEE 802.3		
Network Protocols	TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, Serial over IP, QoS		
Management	Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, RADIUS authentication, VLAN		
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer		
Diagnostics	VSWR, Battery Voltage, Temperature, RSSI, and remote diagnostics		
Rejection	Excellent strong signal interference & rejection characteristics		

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