

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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