

IP1321



1350 - 1390 MHz Wireless Ethernet Bridge / Serial Gateway

The IP1321 Wireless Ethernet Bridge / Serial Gateway is powered by a reliable high-speed 1350 - 1390MHz FHSS radio. It provides robust wireless communication of simultaneous serial data and IP/Ethernet packets to extend serial data and IP networks.

Applications

- Unmanned Aerial Vehicles
- Unmanned Ground Vehicles
- Drones
- Wireless Video, Telemetry
- Research and Development
- Robotics



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 IP1321 allows Ethernet devices to share high speed wireless media and provides a wireless gateway for network applications to access serial devices. The IP1321 also features flexible maintenance utilities and network management facilities.

Features of the IP1321

- 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)
- 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



Restricted Sale to Military, Government and Export to Qualifying Customers Outside Canada and USA.

IP1321

Specifications



Frequency	1350 - 1390 MHz	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 or 1.1Mbps (user-select)		
Error Detection	32 bits of CRC, ARQ		
Encryption	Optional (See -AES option)	Environmental	-40°F to 160°F (-40°C to +70°C) 5-95% humidity, noncondensing
Range	60+ miles (100+ km) line of sight	Weight	Approx. 0.92lbs (420g)
Sensitivity	-104dBm @ 345kbps -98dBm @ 1.1Mbps	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
Serial Interface	RS232: RxD, TxD, RTS, CTS, DCD, DSR, DTR RS422: Tx+, Tx-, Rx+, Rx- RS485: 4-wire/2-wire	Mount	Panel Mount
Serial Baud Rate	300bps to 921kbps	Sale Restriction	RESTRICTED Sale to Military, Government, and Export. Export means qualifying customers outside Canada and USA.
Ethernet	10/100 BaseT IEEE 802.3	Order Options	
Network Protocols	TCP, UDP, TCP/IP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, Serial over IP, QoS	-DIN	DIN rail mount kit
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer	-AES	128/256-bit AES Encryption, Sure Shell, HTTPS (Canada & USA only. NOT AVAILABLE for export)
Management	Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, RADIUS authentication		
Diagnostics	VSWR, Battery Voltage, Temperature, RSSI, and remote diagnostics		
Rejection	Excellent strong signal interference & rejection characteristics		

Contact Information

Copyright 2010 Microhard Systems Inc.
Specifications subject to change without notice.

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