

IP320



310 - 390 MHz Wireless Ethernet Bridge / Serial Gateway

The IP320 Wireless Ethernet Bridge / Serial Gateway is powered by a reliable high-speed 310 - 390MHz 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 IP320 allows Ethernet devices to share high speed wireless media and provides a wireless gateway for network applications to access serial devices. The IP320 also features flexible maintenance utilities and network management facilities.

Features of the IP320

- 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
- Local and remote firmware upgrading through FTP



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

IP320

Specifications



Frequency	310 - 390 MHz	Input Voltage	9-30VDC
Spread Method	Frequency Hopping	Connectors Antenna Data Ethernet	RP-TNC Female Bulkhead RS232 DB-9F, RJ45 Locking screw connector 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 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	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	Sale Restriction	RESTRICTED Sale to Military, Government, and Export. Export means Qualifying Customers outside Canada and USA.
Serial Baud Rate	300bps to 230.4kbps	Order Options	
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	-AES	128/256-bit AES Encryption, Secure Shell, HTTPS (Canada & USA only. NOT AVAILABLE for export)
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		
Diagnostics	VSWR, Battery Voltage, Temperature, RSSI, and remote diagnostics		
Rejection	Excellent strong signal interference & rejection characteristics		

Contact Information

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