Nano IP Series IPn2420



Miniature OEM Wireless Ethernet/Serial/USB Gateway

The Nano IP Series adds Ethernet capability to the miniature, yet powerful Nano platform. This incredibly small Ethernet Bridge and Serial Gateway provides robust wireless communication of simultaneous serial data and IP/Ethernet packets to extend serial data and IP networks.

Microhard Systems Inc.'s proprietary radio technology excels in the most demanding RF and physical environments.

The Nano IP platform is the smallest form factor (2" x 1.25" x .5", weighing only 25 grams) available which offers a full Ethernet/Serial/USB bridge and routing functionality. The Nano IP OEM module can be directly integrated into OEM systems or applications using a variety of interface options. With the LAN out interface ready to wire directly to CAT5 cable OEMs can integrate this unit quickly and efficiently. The Nano IP Series also features flexible maintenance utilities, secure firewall features and network management facilities. Robust Frequency Hopping with excellent receiver sensitivity and interference rejection allow for long range, high speed communications.



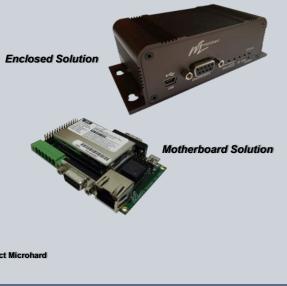
World's Smallest Ethernet//Serial/USB Gateway!

Features of the IPn2420

- Low Power Consumption
- Up to 1.2 Mbps Wireless Link Rate*
- Multicast Support
- Master, Slave, Repeater operation in a single unit
- HV Option provides a quick wiring solution with Ethernet and Serial Levels and Power (7-30 VDC)
- 2 Serial Com Ports, 1 USB Port, and 1 Ethernet Port
- Supports Point-to-Point, Point-to-Multipoint, Repeater, Peer-to-Peer
- Adjustable transmit power (100mW 1W)
- Radius Server Support
- Full VLAN Support (for separate management and Data networking)
- User interface through local console, telnet, and web browser
- Network management capability with SNMP V1, V2, V3
- Local and remote wireless firmware upgrading through FTP
- QoS Routing on Serial, IP, or Logic Ports

* For Faster Link Rates Contact Microhard

Interface Options



IPn2420

Specifications

Frequency Spread Method	2.4000 - 2.4835 GHz Frequency Hopping / DTS	Enclosed	3.3VDC Nominal (+/- 0.3V) 7-30VDC
•		Interface Card	7-30VDC
Link Rate	Up to 1.2Mbps (See Order Options)	Data Enclosed Antenna	OEM - MMCX OEM - 60 Pin OEM Header x2
Error Detection	32 bits of CRC, ARQ		
Encryption	128-bit WEP/WPA (Canada & USA only. NOT AVAILABLE for export, see –AES op- tion)		
Range	Up to 15+ miles (25+ km) @ 1.2Mbps Up to 30+ miles (50+ km) @ 172kbps		
Sensitivity	-107 @ 172kbps link rate -97 @ 1.2Mbps link rate	Temperature	-40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing
Output Power	100mW - 1W (20-30dBm)	Enclosed	Approx. 25 grams Approx. 250 grams Approx. 70 grams
Serial Interface	RS232, RS485, RS422		
Serial Baud Rate	300bps to 921kbps	-	Approx. 1.25" x 2.0" x .50" (32mm x 51mm x 13mm) Approx. 2.25" x 3.85" x 1.50" (57mm x 98mm x 38mm)
USB	USB 2.0 USB Console Port USB to Serial Data Routing USB to Ethernet Data Routing		
		Approvals	FCC Part 15.247 IC RSS210
Ethernet	10/100 BaseT, Auto - MDI/X IEEE 802.3	Order Opt	ions
Network Protocols	TCP, UDP, TCP/IP, TFTP, ARP, ICMP, DHCP, HTTP, HTTPS*, SSH*, SNMP, FTP, DNS, Serial over IP, QoS (* Only available in –AES)	-C1D2	Class 1 Div 2 (for use in hazardous environments)
		-AES	128/256-bit AES Encryption, Secure
Operating Modes	Point-to-Point, Point-to-Multipoint, Store & Forward Repeater, Peer-to-Peer		Shell, HTTPS (Canada & USA only. NOT AVAILABLE for export)
Management	Local Serial Port Console, Telnet, WebUl, SNMP, FTP & Wireless Upgrade, RADIUS authentication, VLAN	-EXP	Export Version, removes encryption
		IPn2420F IPn2420T	115kbps - 230kbps 1.2Mbps
Diagnostics	Battery Voltage, Temperature, RSSI, and remote diagnostics		- - -
Rejection	Excellent strong signal interference & rejec- tion characteristics		
Input IP3 (Antenna Connector)	+12 dBm		

Contact Information

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