

The SpectraNT 920 is a plug and play, high performance wireless Ethernet bridge for attaching remote Ethernet devices to LAN networks. The SpectraNT 920 is the ideal solution for general Ethernet applications that require performance of 276kbps up to 60 miles.



Applications:

- Homeland Security, Video Surveillance
- Industrial Automation, Wireless Networking
- Wireless Telemetry
- Remote Monitoring and Control
- Wireless Ethernet PLC's
- Intelligent Traffic Systems
- Voice Over IP (VoIP)

Proprietary FH spread spectrum radio technology provides superior performance in the most demanding RF and physical environments

The fastest, longest distance industrial wireless modem uses intelligent transparent MAC filtering and MAC switching on the RF channel. Low latency packets allow for seamless integration of any Ethernet device with a LAN network. Unlike our competitors' products, the SpectraNT 920 does not suffer half rate degradation over distance!

Features of the SpectraNT 920

- Extremely robust long range (up to 60 miles), intelligent frequency-hopping radio
- Excellent interference and noise rejection allowing reliable communication in high power cellular and paging environments
- Superior sensitivity and throughput
- License-free operation in the 902-928 MHz ISM bands, 1W (30 dBm in 1dBm steps)
- Custom frequencies and up to 2W output power (Military Sales and Export Only)
- Industrial grade performance and temperature specification -40°C to +85°C
- Point-to-Point, Point-to-Multipoint, Peer-to-Peer, Unlimited Repeater and Remote Diagnostics Modes
- Internal 32bit CRC and auto re-transmission ensures reliable data link
- Secure, Simple, Plug and Play and IEEE 802.3 compliant
- Online diagnostics and firmware upgrade capability

Specifications SpectraNT 920

Frequency	902 - 928 MHz, Other frequencies are also available	Power Supply	9VDC to 30VDC
Spreading Method	Frequency Hopping	Current (12VDC)	
Band Segments	User selectable	Transmit	600 mA
Hopping Patterns	Based on 32 bit network address	Receive	95 mA
Hopping Channels	minimum 50	Idle	20 mA
Error Detection	32bit CRC, ARQ	Sleep	1mA
Data Encryption	256 bit encryption key	Environment	-40 °C to +85 °C 5-95% non-condensing
Range	+60 miles (line of sight)	Weight	Approx. 420 grams (0.92 lbs)
Sensitivity	-108 dBm	Dimensions	4.375" x 3.75" x 1.75"
Output Power	20 to 30dBm, 1dBm step (2W for military and export only)	Enclosure	Extruded aluminium
System Gain	140dB	Mount	Panel mount
Ethernet	10 BaseT IEEE 802.3	Approvals	FCC Part 15.247 approved IC RSS210 approved
Serial Port	RS232: RxD, TxD, RTS, CTS, DCD, DSR, DTR Baudrate: 115.2kbps		
Operating Modes	Point-to-Point, Point-to-Multipoint, Store&Forward Repeater, Peer to Peer		
Diagnostics	Forward & Reflected Power, VSWR, Current, Battery voltage, Temperature, RSSI, Real-time event logging and remote diag- nostics		
Connectors			
Antenna	Reverse gender TNC		
Serial Port	Female DB9		
Ethernet Port	RJ-45		
Indicators			
Radio	WANTX, WANRX, RSSI		
LAN	LANTX, LANRX, LINK		

Order Options

Option 100	DIN rail mount Kit
Option 200	Class 1 Div 2 (for use in hazardous environments)

Specifications subject to change without notice.

Contact Information

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