DATARADIO®

HiPR-900™

LICENSE-FREE WIRELESS IP/ETHERNET CONNECTIVITY

Dataradio's new HiPR-900™ with Dataradio's Parallel Decode™ technology provides optimal IP communications for reliable, long-range communications in a private wireless data network. With the HiPR-900, you can extend your IP-based network into the field for mobile, SCADA and industrial applications.

High-speed data transmission With selectable data rates up to 512 kbps and superior data compression, the HiPR-900 over-the-air throughput provides virtually continuous data in a license-free band for the user requiring high-speed data for video or other data intensive applications.

The HiPR-900 can be used as either an access point or an end point. Each unit can be configured in Bridge or Router mode.

Bridge mode allows for fast out-of-box deployment reducing network set up time
Router mode allows advanced network design to more efficiently route mission-critical data

Easy Network Management The HiPR-900's embedded web server provides browser access to view general device information and configure network parameters.

Over-the-air firmware upgrades Remote access allows system firmware upgrades avoiding costly site visits.

Parallel Decode™ features dual receivers with SMART COMBINING for added decode sensitivity in areas affected by weak signal strength and multipath interference.

Flexible Power Options Power over Ethernet (POE) allows installation close to the antenna in remote locations when connected to a standard IEEE802.3 af switch or power injector reducing the need for expensive coaxial cable.

Wide-range power input The HiPR-900 has a wide-range power input of 10 to 30 volts reducing hardware to give the end-user more power input options.

Data encryption AES 128-bit encryption enhances network security for less worry over network invasion.

License-free The HiPR-900 is a frequency hopping spread sprectrum wireless modem that operates in the license free 902-928 MHz frequencies for faster network deployment.

The HiPR -900 is backed by our **two-year warranty** and superior technical support.

Dataradio's **HiPR -900** helps to reduce infrastructure, requires minimal maintenance and gives the consultant, integrator or end-user the edge in developing an advanced trusted wireless data network.

HIPR-900 SPECIFICATIONS

MECHANICAL LAYOUT

General	
Band	902-928 MHz ISM band
Configurations	IP Bridge, IP Gateway, IP Remote
Management	HTTP embedded web server for setup and help
Supported Protocols	Ethernet IEEE 802.3 (ICMP, IGMP, TCP, UDP, IPSec) IP Fragmentation, Address Resolution Protocol (ARP) IP directed broadcast IP limited broadcast IP multicast relay DHCP Client and Server Network Address Translation (NAT) Dynamic Routing (RIPv2)

Radio	
Mode	Frequency-hopping spread spectrum (FHSS)
Data Rate	512 / 256 Kbps (user-selectable)
TX Power Out	0.1 to 1 watt adjustable
Input Power	10 - 30 VDC or IEEE 802.3af Power-Over-Ethernet (POE)

Physical Interface	
Serial Ports - 2 RS-232 DE-9F	1,200 - 115,200 bps data rate Setup Port and Serial Terminal Server
Ethernet RJ-45	10/100 BaseT auto-MDIX
Antenna Connector	Dual TNC female
LEDs	LAN link, LAN activity, Tx/Rx, Sync, Power

Environmental	
Operating Temperature	-30° to +60° C
Humidity	95% at 40° C non-condensing
Dimensions	1.81" x 5.50" x 4.25"
Shipping Weight	2.26 lbs. (1.028 kg)
Mounting Options	Flat surface, DIN-rail option

Approvals	
FCC	Part 15.247 - pending
IC	Pending
UL	C1,DIV2 (UL508, UL1604) - pending