

Wireless Digital Data Link

The Nano Digital Data Link provides the bandwidth and range needed for complex data intensive applications. Operational frequency options range from 300 MHz all the way to 6 GHz, and provide simultaneous Ethernet and Serial Data. Robust digital modulation technology provides secure data transfer and long range capabilities.

Up to 12Mbps

Small Footprint

Ethernet + Serial

Long Range

Extended Temperature



2" X 1.25" X 0.50"

Features

- Low Power Consumption
- Up to 12 Mbps Throughput
- Extremely small foot print and very lightweight
- 2 Serial Com Ports and 1 Ethernet Port
- Supports PTP & PMP (Listening) Network Topologies
- Master & Remote (Slave) Operating Modes.
- Adjustable transmit power (up to 1W)
- Full VLAN Support
- Interface through local console, telnet, and web browser
- Local and remote wireless firmware upgrading through FTP



Enclosed Model

Specifications

Frequency	300 MHz - 6 GHz Options (See Frequency Options)	Input Voltage	OEM Enclosed	3.3VDC Nominal (+/- 0.3V) 7 - 30 VDC
Throughput	Up to 12 Mbps	Connectors:	OEM Antenna Data Enclosed Antenna Data	MMCX 60 Pin OEM Header x2 RP-SMA Female RJ-45 (Ethernet) Female DB9 (Serial) <i>Mini-USB (Not Supported)</i>
Error Detection	32 bits of CRC, ARQ			
Encryption	128 bit AES*			
Sensitivity	-90dBm @ 12 Mbps -95dBm @ 6 Mbps			
Output Power	Up to 1 W (Adjustable)	Environmental	Temperature Humidity	-40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing
Serial Interface	RS232, RS485, RS422	Weight	OEM Enclosed	Approx. 25 grams Approx. 250 grams
Serial Baud Rate	300bps to 921kbps			
Ethernet	10/100 BaseT, Auto - MDI/X IEEE 802.3	Dimensions	OEM Enclosed	Approx. 1.25" x 2.0" x .50" (32mm x 51mm x 13mm) Approx. 2.25" x 3.85" x 1.70" (57mm x 98mm x 43mm)
Network Protocols	TCP, UDP, TCP/IP, TFTP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Se- rial over IP, QoS			
Firewall	Port Forwarding, Access Control, IP List, MAC list.	Frequency Options		
Operating Modes	Point-to-Point, Point-to-Multipoint (Listening)	MHS116400 - IPnDDL900 MHS116450 - IPnDDL900-ENC	902 - 928 MHz	
		MHS116000 - IPnDDL2350 MHS116050 - IPnDDL2350-ENC	2.304 - 2.364 GHz	
Management	Local Serial Port Console, Telnet, We- bUI, SNMP, FTP & Wireless Upgrade, RADIUS authentication, 802.1q VLAN tagging	MHS116020 - IPnDDL2350-F1 MHS116070 - IPnDDL2350-F1-ENC	2.304 - 2.510 GHz	
		MHS116100 - IPnDDL2450 MHS116150 - IPnDDL2450-ENC	2.405 - 2.470 GHz	
Diagnostics	Battery Voltage, Temperature, RSSI, and remote diagnostics	MHS116200 - IPnDDL3400 MHS116250 - IPnDDL3400-ENC	3.300 - 3.500 GHz	
		MHS116300 - IPnDDL5800 MHS116350 - IPnDDL5800-ENC	5.000 - 5.800 GHz	
Rejection	Excellent strong signal interference & rejection characteristics	* Requires Export Permit		

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