

## 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

<b>Frequency</b>	300 MHz - 6 GHz Options (See Frequency Options)	<b>Input Voltage</b>	OEM Enclosed	3.3VDC Nominal (+/- 0.3V) 7 - 30 VDC
<b>Throughput</b>	Up to 12 Mbps	<b>Connectors:</b>	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>
<b>Error Detection</b>	32 bits of CRC, ARQ			
<b>Encryption</b>	128 bit AES*			
<b>Sensitivity</b>	-90dBm @ 12 Mbps -95dBm @ 6 Mbps			
<b>Output Power</b>	Up to 1 W (Adjustable)	<b>Environmental</b>	Temperature Humidity	-40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing
<b>Serial Interface</b>	RS232, RS485, RS422	<b>Weight</b>	OEM Enclosed	Approx. 25 grams Approx. 250 grams
<b>Serial Baud Rate</b>	300bps to 921kbps			
<b>Ethernet</b>	10/100 BaseT, Auto - MDI/X IEEE 802.3	<b>Dimensions</b>	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)
<b>Network Protocols</b>	TCP, UDP, TCP/IP, TFTP, ARP, ICMP, DHCP, HTTP, SNMP, FTP, DNS, Se- rial over IP, QoS			
<b>Firewall</b>	Port Forwarding, Access Control, IP List, MAC list.	<b>Frequency Options</b>		
<b>Operating Modes</b>	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	
<b>Management</b>	Local Serial Port Console, Telnet, We- bUI, SNMP, FTP & Wireless Upgrade, RADIUS authentication, 802.1q VLAN tagging	MHS116100 - IPnDDL2450 MHS116150 - IPnDDL2450-ENC	2.405 - 2.470 GHz	
		MHS116200 - IPnDDL3400 MHS116250 - IPnDDL3400-ENC	3.300 - 3.500 GHz	
<b>Diagnostics</b>	Battery Voltage, Temperature, RSSI, and remote diagnostics	MHS116300 - IPnDDL5800 MHS116350 - IPnDDL5800-ENC	5.000 - 5.800 GHz	
<b>Rejection</b>	Excellent strong signal interference & rejection characteristics	<b>* Requires Export Permit</b>		

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