

Miniature OEM Wireless Digital Data Link

The all new Pico Digital Data Link is a miniature OEM, high power, 2.4 GHz wireless solution that provides the bandwidth and range needed for complex data intensive applications. The Pico DDL features secure, simultaneous Ethernet and Serial Data communications. Robust digital modulation technology provides secure data transfer and long range capabilities.

Up to 25Mbps

Small Footprint

Ethernet + Serial

Diversity Antenna

PTP & Multipoint

Weighs only 5g!



1.3" X 1.05" X 0.13"

Features

- Low Power Consumption
- Up to 25 Mbps Iperf Throughput @ 8MHz channel (-78dBm)
- Diversity Antenna port for enhanced sensitivity
- Extremely small foot print and very lightweight
- Dual Serial Communication Ports*
- Dual 10/100 Ethernet Ports (LAN/WAN)
- Supports Point-to-Point and Point-to-Multipoint Networks
- Master & Remote Operating Modes.
- Adjustable transmit power (up to 1W)
- Interface through local console, telnet, and web browser
- Local and remote wireless firmware upgrading through FTP

* Second Com port available on IPnDDL Adapter Card

Interface Options

IPnDDL Adapter Board
(pDDL to IPnDDL)



pDDL Motherboard

◆ Video ◆ Diversity ◆ Ethernet ◆ Serial ◆ Security

Specifications

Frequency		Performance Specifications			
Error Detection		Modulation	Multicast IPerf Throughput (Mbps)	Throughput @ Sensitivity (dBm)	Maximum Tx Power (dBm) +/- 1dB
2.402 - 2.478 GHz					
32 bits of CRC, ARQ		BPSK_1/2	3	-96	30dBm
128-bit AES (Optional 256-bit)		QPSK_1/2	6	-94	30dBm
128-bit AES (Optional 256-bit)		QPSK_3/4	9	-91	30dBm
Ports Serial Data/Console Ethernet USB		16QAM_1/2	12	-88	29dBm
Firewall Port Forwarding, Access Control, IP/MAC List.		16QAM_3/4	17	-85	29dBm
Operating Modes Point-to-Point, Point-to-Multipoint, Mesh (future)		64QAM_2/3	23	-80	27dBm
Diagnostics Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, CCQ, lperf, RSSI		64QAM_3/4	25	-78	27dBm
Management Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)		64QAM_5/6	28	-76	27dBm
Rejection Excellent strong signal interference & rejection characteristics		4 MHz			
Input Voltage OEM Digital Voltage = 3.3V Motherboard RF Voltage = 5V 7 - 30 VDC		BPSK_1/2	1.5	-99	30dBm
Connectors: OEM Antenna: UFL x2 (Main, Diversity) Motherboard Data: 80 Pin SMT Antenna: RP-SMA Female Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB (Future)		QPSK_1/2	3	-98	30dBm
Environmental Temperature -40°F to 185°F (-40°C to +85°C) Humidity 5-95%, non-condensing		QPSK_3/4	4.5	-96	30dBm
Weight OEM Approx. 5 grams Motherboard Approx. 50 grams		16QAM_1/2	6	-92	29dBm
Dimensions OEM Approx. 1.05" x 1.3" x .13" Motherboard (27mm x 33mm x 3.5mm) Approx. 2.5" x 3.0" x 0.70" (64mm x 76mm x 18mm)		16QAM_3/4	9	-88	29dBm
Approvals FCC IC		64QAM_2/3	11.5	-83	27dBm
Order Options		64QAM_3/4	12.5	-82	27dBm
MHS118000 - pDDL2450 OEM Wireless 2.4GHz DDL Module		64QAM_5/6	14	-80	27dBm
Order Options		2 MHz			
MHS118000 - pDDL2450 OEM Wireless 2.4GHz DDL Module		BPSK_1/2	0.78	-101	30dBm
Order Options		QPSK_1/2	1.5	-100	30dBm
Order Options		QPSK_3/4	2.2	-97	30dBm
Order Options		16QAM_1/2	2.9	-93	29dBm
Order Options		16QAM_3/4	4.3	-90	29dBm
Order Options		64QAM_2/3	5.5	-86	27dBm
Order Options		64QAM_3/4	6	-84	27dBm
Order Options		64QAM_5/6	6.5	-82	27dBm

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