

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, PMP & Mesh

Weights only 5g!



1.3" X 1.05" X 0.15"

Features

- Low Power Consumption
- Up to 25 Mbps lperf 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 PTP, PMP & Mesh Networks
- Master, Remote, Repeater, Mesh 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



**pDDL
Enclosed**

◆ Video ◆ Diversity ◆ Ethernet ◆ Serial ◆ Security

Specifications

Frequency		2.402 - 2.478 GHz	Performance Specifications				
Error Detection		32 bits of CRC, ARQ	ModulationMulticast IPerf Throughput (Mbps)Throughput @ Sensitivity (dBm)Maximum Tx Power (dBm) +/- 1dB				
Encryption <i>(Requires Export Permit)</i>		128-bit AES (Optional 256-bit)					
Ports		Serial Data/Console Ethernet USB	RS232 TTL level (300bps to 921kbps) Dual 10/100BaseT IEEE802.3 (LAN/WAN) 2.0	8 MHz			
Firewall		Port Forwarding, Access Control, IP/MAC List.	BPSK_1/2	3	-96	30dBm	
Operating Modes		Point-to-Point, Point-to-Multipoint, Mesh	QPSK_1/2	6	-94	30dBm	
Diagnostics		Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, CCQ, Iperf, RSSI	QPSK_3/4	9	-91	30dBm	
Management		Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)	16QAM_1/2	12	-88	29dBm	
Rejection		Excellent strong signal interference & rejection characteristics	16QAM_3/4	17	-85	29dBm	
Input Voltage		OEM Motherboard/ENC	Digital Voltage = 3.3V / RF Voltage = 5V 7 - 30 VDC	64QAM_2/3	23	-80	27dBm
Connectors:		OEM Motherboard/ENC	Antenna: UFL x2 (Main, Diversity) Data: 80 Pin SMT	64QAM_3/4	25	-78	27dBm
			Antenna (Enclosed): RP-SMA Female x3 Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A Micro-AB USB (Console) 4 PIN Interlock (Vin, I/O)	64QAM_5/6	28	-76	27dBm
Environmental		Temperature Humidity	-40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing	4 MHz			
Weight		OEM Motherboard Enclosed	Approx. 5 grams Approx. 50 grams Approx. 165 grams	BPSK_1/2	1.5	-99	30dBm
Dimensions		OEM Motherboard Enclosed	Approx. 1.05" x 1.3" x .15" (27mm x 33mm x 4mm) Approx. 2.5" x 3.0" x 0.70" (64mm x 76mm x 18mm) Approx. 3.05" x 2.2" x 1.1" (77mm x 55mm x 28mm)	QPSK_1/2	3	-98	30dBm
Approvals		FCC IC		QPSK_3/4	4.5	-96	30dBm
Order Options				16QAM_1/2	6	-92	29dBm
				16QAM_3/4	9	-88	29dBm
				64QAM_2/3	11.5	-83	27dBm
MHS118000 - pDDL2450 MHK118050 - pDDL2450-ENC		OEM Wireless 2.4GHz DDL Module Enclosed Wireless 2.4GHz DDL Modem		64QAM_3/4	12.5	-82	27dBm
				64QAM_5/6	14	-80	27dBm
				2 MHz			
				BPSK_1/2	0.78	-101	30dBm
				QPSK_1/2	1.5	-100	30dBm
				QPSK_3/4	2.2	-97	30dBm
				16QAM_1/2	2.9	-93	29dBm
				16QAM_3/4	4.3	-90	29dBm
				64QAM_2/3	5.5	-86	27dBm
				64QAM_3/4	6	-84	27dBm
				64QAM_5/6	6.5	-82	27dBm

Contact Information

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