

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 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 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				
Encryption (Requires Export Permit)		128-bit AES (Optional 256-bit)	Modulation	Multicast IPerf Throughput (Mbps)	Throughput @ Sensitivity (dBm)	Maximum Tx Power (dBm) +/- 1dB
Ports	Serial Data/Console Ethernet USB	RS232 TTL level (300bps to 921kbps) Dual 10/100BaseT IEEE802.3 (LAN/WAN) 2.0	8 MHz			
			BPSK_1/2	3	-96	30dBm
Firewall	Port Forwarding, Access Control, IP/MAC List.		QPSK_1/2	6	-94	30dBm
Operating Modes	Point-to-Point, Point-to-Multipoint, Mesh		QPSK_3/4	9	-91	30dBm
Diagnosics	Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, CCQ, Iperf, RSSI		16QAM_1/2	12	-88	29dBm
Management	Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)		16QAM_3/4	17	-85	29dBm
			64QAM_2/3	23	-80	27dBm
Rejection	Excellent strong signal interference & rejection characteristics		64QAM_3/4	25	-78	27dBm
Input Voltage	OEM Motherboard/ENC	Digital Voltage = 3.3V / RF Voltage = 5V 7 - 30 VDC	64QAM_5/6	28	-76	27dBm
			4 MHz			
Connectors:	OEM	Antenna: UFL x2 (Main, Diversity) Data: 80 Pin SMT	BPSK_1/2	1.5	-99	30dBm
			QPSK_1/2	3	-98	30dBm
	Motherboard/ENC	Antenna (Enclosed): RP-SMA Femalex3 Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A Micro-AB USB (Console) 4 PIN Interlock (Vin, I/O)	QPSK_3/4	4.5	-96	30dBm
			16QAM_1/2	6	-92	29dBm
			16QAM_3/4	9	-88	29dBm
			64QAM_2/3	11.5	-83	27dBm
Environmental	Temperature Humidity	-40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing	64QAM_3/4	12.5	-82	27dBm
			64QAM_5/6	14	-80	27dBm
Weight	OEM Motherboard Enclosed	Approx. 5 grams Approx. 50 grams Approx. 165 grams	2 MHz			
			BPSK_1/2	0.78	-101	30dBm
Dimensions	OEM Motherboard	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)	QPSK_1/2	1.5	-100	30dBm
			QPSK_3/4	2.2	-97	30dBm
	Enclosed	Approx. 3.05" x 2.2" x 1.1" (77mm x 55mm x 28mm)	16QAM_1/2	2.9	-93	29dBm
Approvals	FCC IC		16QAM_3/4	4.3	-90	29dBm
			64QAM_2/3	5.5	-86	27dBm
Order Options			64QAM_3/4	6	-84	27dBm
MHS118000 - pDDL2450	OEM Wireless 2.4GHz DDL Module		64QAM_5/6	6.5	-82	27dBm
MHK118050 - pDDL2450-ENC	Enclosed Wireless 2.4GHz DDL Modem					

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