

Miniature OEM 900MHz/2.4 GHz Digital Data Link

The Pico Digital Data Link is a dual frequency, software selectable 900 MHz & 2.4 GHz wireless OEM solution that provides the bandwidth and range needed for complex data intensive applications. The pDDL900 features secure, simultaneous Ethernet and Serial Data communications. Robust digital modulation technology provides secure data transfer and long range capabilities.

Up to 25Mbps

900 MHz & 2.4 GHz

Ethernet + Serial

Up to 1 Watt

PTP & Multipoint

Weighs only 10g!



1.3" X 1.05" X 0.30"

Features

- Software Selectable 900 MHz & 2.4 GHz
- Up to 25 Mbps Iperf Throughput @ 8MHz channel (-78dBm)
- Extremely small foot print and very lightweight
- Serial Communication Port
- 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

Interface Options



pDDL Motherboard



pDDL Enclosed

Specifications

Frequencies (selectable)		Performance Specifications			
902 - 928 MHz / 2.402 - 2.478 GHz					
Error Detection		32 bits of CRC, ARQ			
Encryption (Requires Export Permit)		128-bit AES			
Ports		RS232 TTL level (300bps to 921kbps) Dual 10/100BaseT IEEE802.3 (LAN/WAN) 2.0 (Future Development)			
Firewall		Port Forwarding, Access Control, IP/MAC List.			
Operating Modes		Point-to-Point, Point-to-Multipoint, Mesh (future)			
Diagnostics		Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, SNR, RSSI			
Management		Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)			
Rejection		Excellent strong signal interference & rejection characteristics			
Input Voltage		Digital Voltage = 3.3V / RF Voltage = 5V 7 - 30 VDC			
Connectors:		Antenna: UFL x2 (900MHz, 2.4 GHz) Data: 80 Pin SMT			
OEM		Antenna (Enclosed): RP-SMA Female x2 Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A (Future) 4 PIN Interlock (Vin, I/O)			
Motherboard/ENC					
Environmental		Temperature Humidity -40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing			
Weight		Approx. 10 grams Approx. 55 grams Approx. 175 grams			
Dimensions		Approx. 1.05" x 1.3" x .30" (27mm x 33mm x 8mm) 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)			
Approvals		FCC IC			
Frequency Options					
MHS118100 - pDDL900		Dual Frequency 900MHz/2.4GHz			
MHS118200 - pDDL1800		Single Frequency 1810-1850MHz, Single Antenna			
		8 MHz			
		BPSK_1/2	3	-96	30dBm
		QPSK_1/2	6	-94	30dBm
		QPSK_3/4	9	-91	30dBm
		16QAM_1/2	12	-88	29dBm
		16QAM_3/4	17	-85	29dBm
		64QAM_2/3	23	-80	27dBm
		64QAM_3/4	25	-78	27dBm
		64QAM_5/6	28	-76	27dBm
4 MHz					
		BPSK_1/2	1.5	-99	30dBm
		QPSK_1/2	3	-98	30dBm
		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
		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

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