

Miniature OEM 1.8 GHz Digital Data Link

The pDDL1800 is a robust wireless Digital Data Link that operates in the 1810 - 1850 MHz frequency band. The pDDL1800 is a wireless OEM solution that provides the bandwidth and range needed for complex data intensive applications. The pDDL1800 features secure, simultaneous Ethernet and Serial Data communications. Robust digital modulation technology provides secure data transfer and long range capabilities.

Up to 25Mbps

1.8 GHz

Ethernet + Serial

Up to 1 Watt

PTP & Multipoint

Weights only 10g!



1.3" X 1.05" X 0.30"

Features

- 1810 - 1850 MHz Operation
- 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



Motherboard



Enclosed

Specifications

| Frequency | | 1810 – 1850 MHz | Performance Specifications | | | |
|--|--|--|--|-----------------------------------|--------------------------------|--------------------------------|
| Error Detection | | 32 bits of CRC, ARQ | Modulation | Multicast IPerf Throughput (Mbps) | Throughput @ Sensitivity (dBm) | Maximum Tx Power (dBm) +/- 1dB |
| Encryption (Requires Export Permit) | | 128-bit AES, Optional 256-bit AES | | | | |
| Ports | | Serial Data/Console Ethernet USB RS232 TTL level (300bps to 921kbps) Dual 10/100BaseT IEEE802.3 (LAN/WAN) 2.0 (Future Development) | 8 MHz | | | |
| Firewall | | | Port Forwarding, Access Control, IP/MAC List. | BPSK_1/2 | 3 | -96 |
| Operating Modes | | Point-to-Point, Point-to-Multipoint, Mesh (future) | QPSK_1/2 | 6 | -94 | 30dBm |
| Diagnostics | | Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, SNR, 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 | | Digital Voltage = 3.3V / RF Voltage = 5V 7 - 30 VDC | 64QAM_2/3 | 23 | -80 | 27dBm |
| Connectors: | | | Antenna: UFL Data: 80 Pin SMT Antenna (Enclosed): RP-SMA Female Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A (Future) 4 PIN Interlock (Vin, I/O) | 64QAM_3/4 | 25 | -78 |
| Environmental | | Temperature Humidity -40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing | | 64QAM_5/6 | 28 | -76 |
| Weight | | | Approx. 10 grams Approx. 50 grams Approx. 175 grams | 4 MHz | | |
| Dimensions | | Approx. 1.05" x 1.3" x .30" (27mm x 33mm x 8mm) Approx. 2.0" x 3.0" x 0.70" (50mm x 76mm x 18mm) Approx. 3.05" x 2.2" x 1.1" (77mm x 55mm x 28mm) | | BPSK_1/2 | 1.5 | -99 |
| Frequency Options | | | Model pDDL1800 | QPSK_1/2 | 3 | -98 |
| | | 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 | |

Contact Information

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