

pMDDL(DDL/pDDL) Series

New Wireless Digital Data Link

The new pMDDL (DDL/pDDL) digital data link is a new high-power OEM product with small size, light weight, 2X2 MIMO, complete functions and abundant frequency bands. The pMDDL (DDL/pDDL) series 2X2 MIMO wireless digital OEM solutions provide low-latency, high-bandwidth, and long-distance communication services for complex data-intensive applications. pMDDL provides setting selection for 6 frequency bands from 1.6 to 2.5GHz. The pMDDL (DDL/pDDL) series products are equipped with 2X2 MIMO and use technologies such as Maximal Ratio Combining (MRC), Maximal Likelihood (ML) algorithm, and Low Density Parity Check (LDPC) encoding to achieve powerful radio frequency performance. pMDDL (DDL/pDDL) series products have outstanding security performance, and Ethernet, USB and serial port data can be communicated simultaneously.

2 x 2 MIMO

Up to 21 Mbps

6 frequency bands can be set and selected

Dual network port, USB, serial port

Dynamic frequency selection

**Point-to-point/point-to-multiple/
relay/MESH**



1Watts Module: DDL /pDDL



pMDDL2350
26.5x33x4mm. 7g



pMDDL1624
26.5x51x5.6mm. 15g



10-14V/1A
7.5x5.1x3.2cm, 116g
1Watts: DDL-SZ



10-30V/1.5A
7.8x5.7x3.0cm, 147g
1Watts: DDL-mini

Performance:

- ◆ 1.6GHz/1.8GHz/2.0GHz/2.2GHz/2.3GHz/2.4GHz Software settings can be selected
- ◆ Maximal Ratio Combining(MRC)、Maximal Likelihood Decoding(MLD)
- ◆ Low-Density Parity Check(LDPC)
- ◆ FIPS140-2
- ◆ IPerf throughput up to 21Mbps@8MHz channel (-78 dBm)
IPerf throughput up to 2Mbps@4MHz channel (-102 dBm)
- ◆ Super light, Super small size
- ◆ Dual 10/100 network port (LAN/WAN)
- ◆ Support for point-to-point, Point-to-multipoint, Multipoint-to-multipoint and MEH networks
- ◆ Master/slave, Relay and MESH operating modes
- ◆ Transmitting power adjustable (up to 2 watt)
- ◆ Can be connected through local control port, Remote login and web browser
- ◆ Local and remote wireless upgrades via FTP

Interface Options



pMDDL2350 、 pMDDL1624Motherboard/Enclosed

Power extension/Distance expansion



4/20Watts

11.9x10.6x3.9cm,518g/18.9x12.2x4.3cm,900g
(within 65 ms delay video codec: IP/HDMI/SDI/CVBS interface)

pMDDL Module Technical Indicator

Frequency Software selectable	1625 to 1725 MHz 1780 to 1850 MHz 2020 to 2110 MHz 2200 to 2300 MHz 2300 to 2390 MHz 2400 to 2500 MHz	Technical Indicators(1625-1724MHz)			
Error Detection	32 bits of CRC, ARQ	Modulation	IPerf Throughput (Mbps)	Optimal MRC Sensitivity (dBm)	Total Tx Power(dBm) ±1dB
Encryption	128-bit AES (Optional 256-bit)	8MHz (2X2 MIMO ON)			
Ports	Serial Data/Console RS232 TTL level (300bps to 921kbps) Ethernet Dual 10/100Base EEE802.3 (LAN/WAN) USB 2.0	BPSK_1/2	3.1	-99.5	30dBm
Firewall	Port Forwarding, Access Control, IP/MAC List	QPSK_1/2	6.0	-98	30dBm
Operating Modes	Point-to-point, Point-to-multipoint, Relay, MESH	QPSK_3/4	8.4	-96	30dBm
Diagnostics	Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, IPerf, RSSI	16QAM_1/2	10.7	-92	30dBm
Management	Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)	16QAM_3/4	14.8	-90	30dBm
Rejection	Excellent strong signal jamming & rejection characteristics	64QAM_2/3	18.1	-85	30dBm
Input Voltage	OEM Digital Voltage = 3.3V RF Voltage = 5V Enclosed 7-30VDC	64QAM_3/4	19.0	-83.5	30dBm
Connectors	OEM Antenna: UFL x2 (ANT1, ANT2) Data: 116 Pin SMT Enclosed Antenna: SMA x2 (ANT1, ANT2) Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A Micro-AB USB (Console) 4 PIN Interlock (Vin)	64QAM_5/6	21.0	-81	30dBm
Environmental	Temperature -40°F to 185°F (-40°C to +85°C) Humidity 5-95%, non-condensing	4MHz (2X2 MIMO ON)			
Weight	OEM 15g Enclosed 275g	BPSK_1/2	1.57	-102.5	30dBm
Dimensions	OEM 26.5mm x 51mm x 5.6mm Enclosed 81mm x 88mm x 35mm	QPSK_1/2	3.0	-101	30dBm
Order Options	pMDDL1624 2X2 MIMO Hexa-Band OEM Data Link pMDDL1624-ENC 2X2 MIMO Hexa-Band Enclosed Data Link	QPSK_3/4	4.3	-99	30dBm
		16QAM_1/2	5.4	-95.5	30dBm
		16QAM_3/4	7.4	-93	30dBm
		64QAM_2/3	7.8	-88	30dBm
		64QAM_3/4	8.0	-86	30dBm
		64QAM_5/6	10.0	-83.5	30dBm
		8MHz (2X2 MIMO OFF)			
		BPSK_1/2	3.1	-96.5	30dBm
		QPSK_1/2	6.0	-95	30dBm
		QPSK_3/4	8.4	-93	30dBm
		16QAM_1/2	10.7	-89	30dBm
		16QAM_3/4	14.8	-87	30dBm
		64QAM_2/3	18.1	-82	28dBm
		64QAM_3/4	19.0	-80.5	28dBm
		64QAM_5/6	21.0	-78	27dBm
		4MHz (2X2 MIMO OFF)			
		BPSK_1/2	1.57	-99.5	30dBm
		QPSK_1/2	3.0	-98	30dBm
		QPSK_3/4	4.3	-96	30dBm
		16QAM_1/2	5.4	-92.5	30dBm
		16QAM_3/4	7.4	-90	30dBm
		64QAM_2/3	7.8	-85	28dBm
		64QAM_3/4	8.0	-83	28dBm
		64QAM_5/6	10.0	-80.5	27dBm

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