

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 rich frequency bands. The pMDDL(DDL/pDDL) series of 2X2 MIMO wireless digital OEM solutions provides low latency, high bandwidth, long distance communication services for complex data-intensive applications. pMDDL(DDL/pDDL) series products are equipped with 2X2 MIMO, using Maximal Ratio Combining (MRC), Maximal Likity (ML) algorithm, low density parity (LDPC) coding and other technologies to achieve powerful RF performance. pMDDL(DDL/pDDL) series products have outstanding security performance, Ethernet and serial data can communicate at the same time.

2 x 2 MIMO

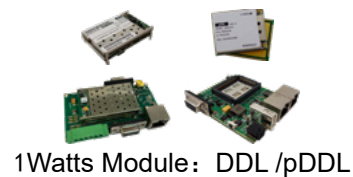
Up to 21 Mbps

6 frequency bands can be set and selected

Multi network port + multi serial port

Point-to-point, Point-to-multipoint, Relay

Small size, Industrial application environment



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)
- ◆ IPerf throughput up to 21Mbps@8MHz channel (-78 dBm)
- ◆ IPerf throughput up to 2Mbps@4MHz channel (-102 dBm)
- ◆ Super light, super small size
- ◆ Serial communication port
- ◆ Dual 10/100 network port (LAN/WAN)
- ◆ Support for point-to-point, Point-to-multipoint, and multipoint-to-multipoint networks
- ◆ Master/slave, no-central Mesh
- ◆ Transmitting power adjustable (up to 1 watt)
- ◆ Can be connected through local control port, remote login and web browser
- ◆ Local and remote wireless upgrades via FTP

Interface Options



pMDDL2350、pMDDL1624 Motherboard/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
Error Detection	32 bits of CRC, ARQ
Encryption	128-bit AES (Optional 256-bit)
Ports	
Serial Data/Console	RS232 TTL level (300bps to 921kbps)
Ethernet	Dual 10/100BaseT IEEE802.3 (LAN/WAN)
USB	2.0 (Future Development)
Sbus	
Firewall	Port Forwarding, Access Control, IP/MAC List
Operating Modes	Point-to-point, Point-to-multipoint, Relay
Diagnostics	Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, IPPerf, 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	
OEM	Digital Voltage = 3.3V
Enclosed	RF Voltage = 5V 7-30VDC
Connectors	
OEM	Antenna: UFL x2 (ANT1, ANT2) Data: 80 Pin SMT
Enclosed	Antenna: UFL x2 (ANT1, ANT2) Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A Micro-AB USB (Console) 4 PIN Interlock (Vin)
Environmental	
Temperature	-40°F to 185°F (-40 C to +85 C)
Humidity	5-95%, non-condensing
Weight	
OEM	15g
Enclosed	275g
Dimensions	
OEM	26.5mm x 51mm x 5.6mm
Enclosed	81mm x 88mm x 35mm
Order Options	
pMDDL1624	2X2 MIMO Hexa-Band OEM Data Link
pMDDL1624-ENC	2X2 MIMO Hexa-Band Enclosed Data Link

Technical Indicators(1625-1724MHz)			
Modulation	IPerf Throughput (Mbps)	Optimal MRC Sensitivity (dBm)	Total Tx Power(dBm) ±1dB
8MHz (2X2 MIMO ON)			
BPSK_1/2	3.1	-99.5	30dBm
QPSK_1/2	6.0	-98	30dBm
QPSK_3/4	8.4	-96	30dBm
16QAM_1/2	10.7	-92	30dBm
16QAM_3/4	14.8	-90	30dBm
64QAM_2/3	18.1	-85	30dBm
64QAM_3/4	19.0	-83.5	30dBm
64QAM_5/6	21.0	-81	30dBm
4MHz (2X2 MIMO ON)			
BPSK_1/2	1.57	-102.5	30dBm
QPSK_1/2	3.0	-101	30dBm
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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