

Miniature OEM Wireless Digital Data Link

The all new pMDDL1621 is a miniature OEM, high power, wireless OEM solution that provides the bandwidth and range needed for complex data intensive applications. The pMDDL1621 offers software selectable operation in the 1.6 GHz, 1.8 GHz or 2.0 GHz frequency ranges. The Pico MIMO DDL features 2x2 MIMO Digital Data Link, using Maximal Ratio Combining (MRC), Maximal Likelihood (ML) decoding and Low-Density Parity Check (LDPC) to achieve robust RF performance. The pMDDL1621 features secure and simultaneous Ethernet and Serial Data Communications.

2X2 MIMO

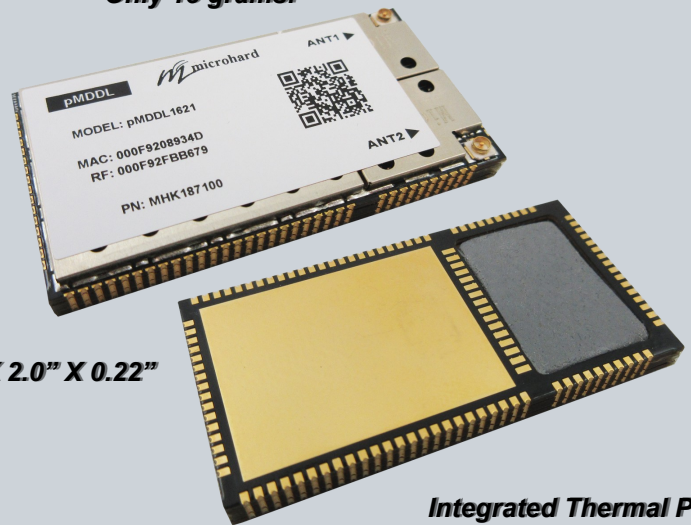
Up to 21 Mbps

Small Footprint

Ethernet + Serial

PTP | Multipoint | Relay

Only 15 grams!



1.05" X 2.0" X 0.22"

Integrated Thermal Pad!

pMDDL Features

- Robust 2X2 MIMO 1.6 GHz, 1.8 GHz or 2.0 GHz Operation
- Maximal Ratio Combining (MRC), Maximal Likelihood (ML) decoding
- Low-Density Parity Check (LDPC)
- Up to 21 Mbps Iperf Throughput @ 8 MHz channel (-78 dBm)
Up to 2 Mbps IPerf Throughput @ 4 MHz channel (-102 dBm)
- 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, Relay Operating Modes.
- Adjustable total transmit power (up to 1W)
- Interface through local console, telnet, and web browser
- Local and remote wireless firmware upgrading through FTP

Interface Options

pMDDL1621 Motherboard



pMDDL1621 Enclosed



Specifications

		Optimal Performance Specifications				
		Modulation	IPerf Throughput (Mbps)	Optimal MRC Sensitivity (dBm)	Total Tx Power (dBm) +/- 1dB	
Frequency (Software Selectable)	1625 to 1725 MHz 1780 to 1850 MHz 2015 to 2110 MHz					
Error Detection	32 bits of CRC, ARQ	8 MHz (2X2 MIMO ON)				
Encryption (Requires Export Permit)	256-bit AES	BPSK_1/2	3.1	-99.5	30dBm	
Ports Serial Data/Console Ethernet USB	RS232 TTL level (300bps to 921kbps) Dual 10/100BaseT IEEE802.3 (LAN/WAN) 2.0 (Future Development)	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	
Firewall	Port Forwarding, Access Control, IP/MAC List.	64QAM_2/3	18.1	-85	30dBm	
		64QAM_3/4	19.0	-83.5	30dBm	
Operating Modes	Point-to-Point, Point-to-Multipoint, Relay	64QAM_5/6	21.0	-81	30dBm	
Diagnostics	Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, IPerf, RSSI	4 MHz (2X2 MIMO ON)				
Management	Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)	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	
Rejection	Excellent strong signal interference & rejection characteristics	16QAM_3/4	7.4	-93	30dBm	
		64QAM_2/3	7.8	-88	30dBm	
Input Voltage	OEM	Digital Voltage = 3.3V / RF Voltage = 4.2V	64QAM_3/4	8.0	-86	30dBm
	Enclosed	7 - 30 V _{DC}	64QAM_5/6	10.0	-83.5	30dBm
Connectors:	OEM	Antenna: UFL x2 (ANT1, ANT2) Data: 116 Pin SMT				
	Enclosed	Antenna: RS-SMA Female x2 Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A Micro-AB USB (Console) 4 PIN Interlock (Vin)				
Environmental Temperature Humidity	-40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing	8 MHz (MIMO OFF)				
		BPSK_1/2	3.1	-96.5	30dBm	
		QPSK_1/2	6.0	-95	30dBm	
		QPSK_3/4	8.4	-93	30dBm	
Weight	Approx. 15 grams Approx. 240 grams	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	
Dimensions	Approx. 1.05" x 2.0" x .22" (26.5mm x 51mm x 5.6mm) Approx. 3.20" x 3.50" x 1.15" (81mm x 88mm x 29mm)	64QAM_5/6	21.0	-78	27dBm	
		4 MHz (MIMO OFF)				
		BPSK_1/2	1.57	-99.5	30dBm	
		QPSK_1/2	3.0	-98	30dBm	
Order Options	pMDDL1621 pMDDL1621-ENC	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	

Contact Information

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Miniature Dual Frequency OEM Digital Data Link

The all new pMDDL5824 is a miniature OEM, high power, software selectable 2.4GHz & 5 GHz wireless digital data link solution. The Pico MIMO DDL features a 2x2 MIMO Digital Data Link using Maximal Ratio Combining (MRC), Maximal Likelihood (ML) decoding and Low-Density Parity Check (LDPC) to achieve robust RF performance.

2.4 & 5 GHz

Up to 25Mbps

2X2 MIMO

Ethernet + Serial

PTP | Multipoint | Relay



Only 20 grams!

1.25" X 2.25" X 0.2"

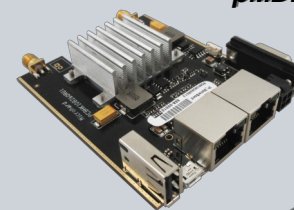


pMDDL5824 Features

- Robust 2X2 MIMO with Selectable 2.4 GHz or 5 GHz Operation
- Maximal Ratio Combining (MRC), Maximal Likelihood (ML) decoding
- Low-Density Parity Check (LDPC)
- Up to 25 Mbps Iperf Throughput @ 8MHz channel (-78dBm)
Up to 2 Mbps IPerf Throughput @ 2MHz channel (-102dBm)
- Extremely small foot print and very lightweight
- Dual 10/100 Ethernet Ports (LAN/WAN)
- Supports Point-to-Point, Point-to-Multipoint, Mesh Networks
- Master, Remote, Relay Operating Modes.
- Adjustable total transmit power (up to 1W)
- Interface through local console, telnet, and web browser

Interface Options

pMDDL5824 Motherboard



pMDDL5824 Enclosed



Specifications

Frequency (Selectable)		Optimal Performance Specifications				
Error Detection		Modulation	IPerf Throughput (Mbps)	Optimal MRC Sensitivity (dBm)	Total Tx Power (dBm) +/- 1dB	
2.402 - 2.478 GHz 5.000 - 5.900 GHz		8 MHz (2X2 MIMO ON)				
32 bits of CRC, ARQ		QPSK_1/2	5.9	-98	30dBm	
128-bit AES		QPSK_3/4	8.8	-96	30dBm	
128-bit AES <i>(Requires Export Permit)</i>		16QAM_1/2	11.6	-92	30dBm	
Serial Data/Console Ethernet USB		16QAM_3/4	17.1	-90	30dBm	
Port Forwarding, Access Control, IP/MAC List.		64QAM_2/3	22.8	-85	30dBm	
Point-to-Point, Point-to-Multipoint, Relay, Mesh		64QAM_3/4	25.5	-83.5	30dBm	
Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, IPerf, RSSI		64QAM_5/6	27.8	-81	30dBm	
Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)		4 MHz (2X2 MIMO ON)				
Excellent strong signal interference & rejection characteristics		QPSK_1/2	2.98	-101	30dBm	
Digital Voltage = 3.3V / RF Voltage = 5V 7 - 30 VDC		QPSK_3/4	4.4	-99	30dBm	
Antenna(s): UFL x2 Data: 100 pin OEM Header		16QAM_1/2	5.8	-95.5	30dBm	
Antenna: RS-SMA Female x2 Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A Micro-AB USB (Console) 4 PIN Interlock (Vin)		16QAM_3/4	8.6	-93	30dBm	
-40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing		64QAM_2/3	11.4	-88	30dBm	
Approx. 20 grams Approx. 230 grams		64QAM_3/4	12.8	-86	30dBm	
Approx. 1.25" x 2.25" x 0.2" (32mm x 57mm x 5mm) Approx. 3.20" x 3.50" x 1.15" (81mm x 88mm x 29mm)		64QAM_5/6	14	-83.5	30dBm	
Order Options		8 MHz (MIMO OFF)				
pMDDL5824 pMDDL5824-ENC		2X2 MIMO 2.4 / 5 GHz OEM DDL Module	QPSK_1/2	5.8	-95	30dBm
		2X2 MIMO 2.4 / 5 GHz Enclosed DDL Module	QPSK_3/4	8.6	-93	30dBm
			16QAM_1/2	11.5	-89	30dBm
			16QAM_3/4	16.9	-87	30dBm
			64QAM_2/3	22.2	-82	28dBm
			64QAM_3/4	24.7	-80.5	28dBm
			64QAM_5/6	27.4	-78	27dBm
			4 MHz (MIMO OFF)			
			QPSK_1/2	2.9	-98	30dBm
			QPSK_3/4	4.3	-96	30dBm
			16QAM_1/2	5.7	-92.5	30dBm
			16QAM_3/4	8.4	-90	30dBm
			64QAM_2/3	11.3	-85	28dBm
			64QAM_3/4	12.5	-83	28dBm
			64QAM_5/6	14	-80.5	27dBm

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Miniature OEM Wireless Digital Data Link

The all new pMDDL900 Digital Data Link is a miniature OEM, high power, 2x2 MIMO 900 MHz wireless OEM solution that provides the bandwidth and range needed for complex data intensive applications. The Pico MIMO DDL features 2x2 MIMO Digital Data Link, using Maximal Ratio Combining (MRC), Maximal Likelihood (ML) decoding and Low-Density Parity Check (LDPC) to achieve robust RF performance. The pMDDL features secure & simultaneous Ethernet and Serial Data communications.

2X2 MIMO

Up to 21 Mbps

Small Footprint

Ethernet + Serial

PTP | Multipoint | Relay

Only 7 grams!



1.05" X 2.0" X 0.11"

pMDDL Features

- Robust 2X2 MIMO 900 MHz Operation
- Maximal Ratio Combining (MRC), Maximal Likelihood (ML) decoding
- Low-Density Parity Check (LDPC)
- Up to 21 Mbps Iperf Throughput @ 8 MHz channel (-78 dBm)
Up to 2 Mbps IPerf Throughput @ 4 MHz channel (-102 dBm)
- 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, Relay Operating Modes.
- Adjustable total transmit power (up to 1W)
- Interface through local console, telnet, and web browser
- Local and remote wireless firmware upgrading through FTP

Interface Options

pMDDL900 Motherboard



pMDDL900 Enclosed



Specifications

Frequency	902 - 928 MHz		Optimal Performance Specifications				
Error Detection	32 bits of CRC, ARQ		Modulation	IPerf Throughput (Mbps)	Optimal MRC Sensitivity (dBm)	Total Tx Power (dBm) +/- 1dB	
Encryption (Requires Export Permit)	128-bit AES (Optional 256-bit)		8 MHz (2X2 MIMO ON)				
Ports Serial Data/Console Ethernet USB	RS232 TTL level (300bps to 921kbps) Dual 10/100BaseT IEEE802.3 (LAN/WAN) 2.0 (Future Development)		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	
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, IPerf, RSSI						
Management	Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)		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	
Rejection	Excellent strong signal interference & rejection characteristics						
Input Voltage	OEM Enclosed	Digital Voltage = 3.3V / RF Voltage = 4.2V 7 - 30 VDC		64QAM_2/3	7.8	-88	30dBm
				64QAM_3/4	8.0	-86	30dBm
				64QAM_5/6	10.0	-83.5	30dBm
Connectors:	OEM	Antenna: UFL x2 (ANT1, ANT2) Data: 116 Pin SMT	Modulation	IPerf Throughput (Mbps)	Optimal MRC Sensitivity (dBm)	Total Tx Power (dBm) +/- 1dB	
	Enclosed	Antenna: RS-SMA Female x2 Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A Micro-AB USB (Console) 4 PIN Interlock (Vin)	8 MHz (MIMO OFF)				
Environmental	Temperature Humidity	-40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing		QPSK_3/4	8.4	-93	30dBm
				16QAM_1/2	10.7	-89	30dBm
Weight	OEM Enclosed	Approx. 7 grams Approx. 230 grams		16QAM_3/4	14.8	-87	30dBm
				64QAM_2/3	18.1	-82	28dBm
Dimensions	OEM Enclosed	Approx. 1.05" x 2.0" x .11" (26.5mm x 51mm x 2.8mm) Approx. 3.20" x 3.50" x 1.15" (81mm x 88mm x 29mm)		64QAM_3/4	19.0	-80.5	28dBm
				64QAM_5/6	21.0	-78	27dBm
Approvals	FCC / IC RoHS Compliant		4 MHz (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

Order Options

pMDDL900	2X2 MIMO 900 MHz OEM DDL Module
pMDDL900-ENC	2X2 MIMO 900 MHz Enclosed DDL Module

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Miniature OEM Wireless Digital Data Link

The all new Pico MIMO Digital Data Link is a miniature OEM, high power, 2x2 MIMO 2.5 GHz wireless OEM solution that provides the bandwidth and range needed for complex data intensive applications. The Pico MIMO DDL features 2x2 MIMO Digital Data Link, using Maximal Ratio Combining (MRC), Maximal Likelihood (ML) decoding and Low-Density Parity Check (LDPC) to achieve robust RF performance. The pMDDL features secure & simultaneous Ethernet and Serial Data communications.

2X2 MIMO

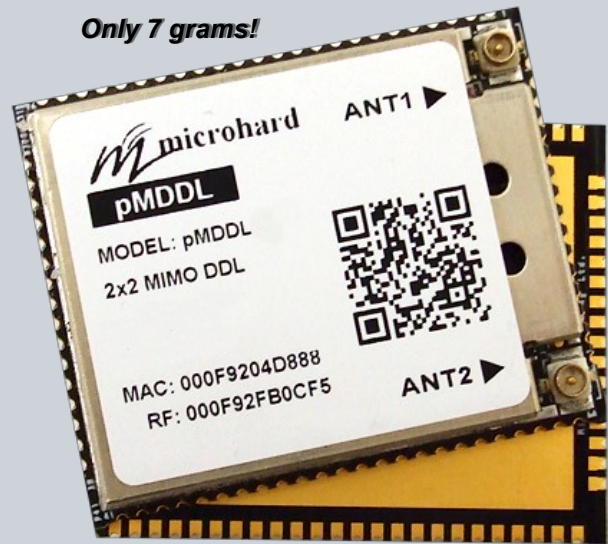
Up to 25 Mbps

Small Footprint

Ethernet + Serial

PTP | Multipoint | Relay

Only 7 grams!

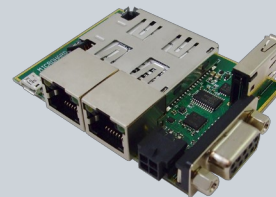


1.3" X 1.05" X 0.30"

pMDDL Features

- Robust 2X2 MIMO 2.5 GHz Operation
- Maximal Ratio Combining (MRC), Maximal Likelihood (ML) decoding
- Low-Density Parity Check (LDPC)
- Up to 25 Mbps Iperf Throughput @ 8 MHz channel (-78 dBm)
Up to 2 Mbps IPerf Throughput @ 4 MHz channel (-102 dBm)
- 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, Relay Operating Modes.
- Adjustable total 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		2.500 - 2.570 GHz	Optimal Performance Specifications						
Error Detection		32 bits of CRC, ARQ	Modulation	IPerf Throughput (Mbps)	Optimal MRC Sensitivity (dBm)	Total Tx Power (dBm) +/- 1dB			
Encryption (Requires Export Permit)		128-bit AES (Optional 256-bit)							
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 (2X2 MIMO ON)						
Serial Data/Console Ethernet USB	RS232 TTL level (300bps to 921kbps) Dual 10/100BaseT IEEE802.3 (LAN/WAN) 2.0 (Future Development)		BPSK_1/2	3	-99.5	30dBm			
			QPSK_1/2	5.9	-98	30dBm			
		QPSK_3/4	8.8	-96	30dBm				
Firewall		Port Forwarding, Access Control, IP/MAC List.	16QAM_1/2	11.6	-92	30dBm			
Operating Modes		Point-to-Point, Point-to-Multipoint, Relay	16QAM_3/4	17.1	-90	30dBm			
Diagnostics		Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, IPerf, RSSI	64QAM_2/3	22.8	-85	30dBm			
Diagnostics	Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, IPerf, RSSI	64QAM_3/4	64QAM_3/4	25.5	-83.5	30dBm			
			64QAM_5/6	27.8	-81	30dBm			
Management		Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)	4 MHz (2X2 MIMO ON)						
Rejection		Excellent strong signal interference & rejection characteristics	BPSK_1/2	1.51	-102.5	30dBm			
Input Voltage	OEM Motherboard/ENC Digital Voltage = 3.3V / RF Voltage = 5V 7 - 30 VDC	Antenna: UFL x2 (ANT1, ANT2) Data: 80 Pin SMT	QPSK_1/2	2.98	-101	30dBm			
			QPSK_3/4	4.4	-99	30dBm			
			16QAM_1/2	5.8	-95.5	30dBm			
Connectors:		Antenna (ENC): RP-SMA Female Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A Micro-AB USB (Console) 4 PIN Interlock (Vin)	16QAM_3/4	8.6	-93	30dBm			
OEM Motherboard/ENC	Antenna (ENC): RP-SMA Female Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A Micro-AB USB (Console) 4 PIN Interlock (Vin)		64QAM_2/3	11.4	-88	30dBm			
			64QAM_3/4	12.8	-86	30dBm			
			64QAM_5/6	14	-83.5	30dBm			
			Environmental		Temperature Humidity	-40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing	8 MHz (MIMO OFF)		
		Temperature Humidity	-40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing	BPSK_1/2			3	-96.5	30dBm
Weight	OEM Motherboard Enclosed			Approx. 7 grams Approx. 50 grams Approx. 175 grams	QPSK_1/2	5.8	-95	30dBm	
		Dimensions	OEM Motherboard Enclosed		Approx. 1.05" x 1.3" x .15" (27mm x 33mm x 4mm) 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)	QPSK_3/4	8.6	-93	30dBm
Dimensions	OEM Motherboard Enclosed			Approx. 1.05" x 1.3" x .15" (27mm x 33mm x 4mm) 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)		16QAM_1/2	11.5	-89	30dBm
		Dimensions	OEM Motherboard Enclosed		Approx. 1.05" x 1.3" x .15" (27mm x 33mm x 4mm) 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)	16QAM_3/4	16.9	-87	30dBm
Dimensions	OEM Motherboard Enclosed			Approx. 1.05" x 1.3" x .15" (27mm x 33mm x 4mm) 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)		64QAM_2/3	22.2	-82	28dBm
		Dimensions	OEM Motherboard Enclosed		Approx. 1.05" x 1.3" x .15" (27mm x 33mm x 4mm) 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)	64QAM_3/4	24.7	-80.5	28dBm
Dimensions	OEM Motherboard Enclosed			Approx. 1.05" x 1.3" x .15" (27mm x 33mm x 4mm) 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)		64QAM_5/6	27.4	-78	27dBm
		Order Options			pMDDL2550	MHK185700	2X2 MIMO 2.5 GHz OEM DDL Module (1W)	4 MHz (MIMO OFF)	
pMDDL2550	MHK185700	2X2 MIMO 2.5 GHz OEM DDL Module (1W)	BPSK_1/2	1.5				-99.5	30dBm
			pMDDL2550	MHK185700	2X2 MIMO 2.5 GHz OEM DDL Module (1W)	QPSK_1/2	2.9	-98	30dBm
pMDDL2550	MHK185700	2X2 MIMO 2.5 GHz OEM DDL Module (1W)				QPSK_3/4	4.3	-96	30dBm
			pMDDL2550	MHK185700	2X2 MIMO 2.5 GHz OEM DDL Module (1W)	16QAM_1/2	5.7	-92.5	30dBm
pMDDL2550	MHK185700	2X2 MIMO 2.5 GHz OEM DDL Module (1W)				16QAM_3/4	8.4	-90	30dBm
			pMDDL2550	MHK185700	2X2 MIMO 2.5 GHz OEM DDL Module (1W)	64QAM_2/3	11.3	-85	28dBm
pMDDL2550	MHK185700	2X2 MIMO 2.5 GHz OEM DDL Module (1W)				64QAM_3/4	12.5	-83	28dBm
			pMDDL2550	MHK185700	2X2 MIMO 2.5 GHz OEM DDL Module (1W)	64QAM_5/6	14	-80.5	27dBm

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Miniature OEM Wireless Digital Data Link

The all new Pico MIMO Digital Data Link is a miniature OEM, high power, 2x2 MIMO 2.4 GHz wireless OEM solution that provides the bandwidth and range needed for complex data intensive applications. The Pico MIMO DDL features 2x2 MIMO Digital Data Link, using Maximal Ratio Combining (MRC), Maximal Likelihood (ML) decoding and Low-Density Parity Check (LDPC) to achieve robust RF performance. The pMDDL features secure & simultaneous Ethernet and Serial Data communications.

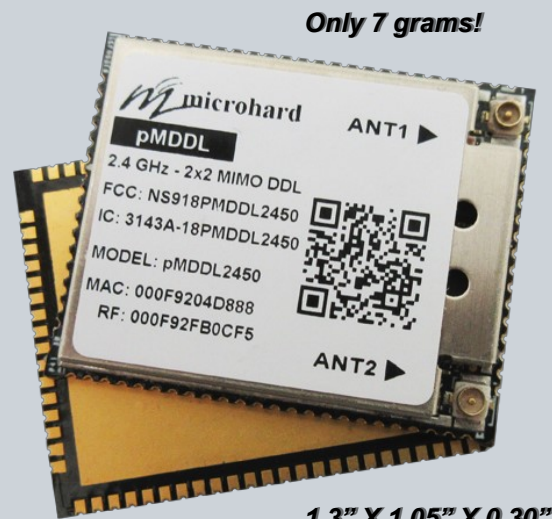
2X2 MIMO

Up to 25 Mbps

Small Footprint

Ethernet + Serial

PTP | Multipoint | Relay



pMDDL Features

- Robust 2X2 MIMO 2.4 GHz Operation
- Maximal Ratio Combining (MRC), Maximal Likelihood (ML) decoding
- Low-Density Parity Check (LDPC)
- Up to 25 Mbps Iperf Throughput @ 8 MHz channel (-78 dBm)
Up to 2 Mbps IPerf Throughput @ 4 MHz channel (-102 dBm)
- 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, Relay Operating Modes.
- Adjustable total transmit power (up to 1W)
- Interface through local console, telnet, and web browser
- Local and remote wireless firmware upgrading through FTP

Interface Options



Pico Motherboard

◆ Video ◆ 2X2 MIMO ◆ Ethernet ◆ Serial ◆ Security

Specifications

Frequency		2.402 - 2.478 GHz	Optimal Performance Specifications									
Error Detection		32 bits of CRC, ARQ	Modulation	IPerf Throughput (Mbps)	Optimal MRC Sensitivity (dBm)	Total Tx Power (dBm) +/- 1dB						
Encryption (Requires Export Permit)		128-bit AES (Optional 256-bit)										
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 (2X2 MIMO ON)									
Serial Data/Console Ethernet USB	RS232 TTL level (300bps to 921kbps) Dual 10/100BaseT IEEE802.3 (LAN/WAN) 2.0 (Future Development)		BPSK_1/2	3	-99.5	30dBm						
			QPSK_1/2	5.9	-98	30dBm						
		QPSK_3/4	8.8	-96	30dBm							
Firewall		Port Forwarding, Access Control, IP/MAC List.	16QAM_1/2	11.6	-92	30dBm						
Operating Modes		Point-to-Point, Point-to-Multipoint, Relay	16QAM_3/4	17.1	-90	30dBm						
Diagnostics		Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, IPerf, RSSI	64QAM_2/3	22.8	-85	30dBm						
Management	Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)	64QAM_3/4	64QAM_3/4	25.5	-83.5	30dBm						
			64QAM_5/6	27.8	-81	30dBm						
			4 MHz (2X2 MIMO ON)									
Rejection		Excellent strong signal interference & rejection characteristics	BPSK_1/2	1.51	-102.5	30dBm						
Input Voltage	OEM Motherboard	Digital Voltage = 3.3V / RF Voltage = 5V 7 - 30 VDC	QPSK_1/2	2.98	-101	30dBm						
			QPSK_3/4	4.4	-99	30dBm						
			16QAM_1/2	5.8	-95.5	30dBm						
Connectors:		Antenna: UFL x2 (ANT1, ANT2) Data: 80 Pin SMT Antenna: UFL x2 (ANT1, ANT2) Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A Micro-AB USB (Console) 4 PIN Interlock (Vin)	16QAM_3/4	8.6	-93	30dBm						
OEM Motherboard	64QAM_2/3		11.4	-88	30dBm							
	64QAM_3/4		12.8	-86	30dBm							
OEM Motherboard	64QAM_5/6		14	-83.5	30dBm							
	Environmental		Temperature Humidity	-40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing	Modulation		IPerf Throughput (Mbps)		Optimal MRC Sensitivity (dBm)		Total Tx Power (dBm) +/- 1dB	
Weight					OEM Motherboard	Approx. 7 grams Approx. 50 grams	8 MHz (MIMO OFF)					
Dimensions		OEM Motherboard	Approx. 1.05" x 1.3" x .15" (27mm x 33mm x 4mm) Approx. 2.0" x 3.0" x 0.70" (50mm x 76mm x 18mm)	BPSK_1/2			3	-96.5	30dBm			
Approvals	FCC Industry Canada			QPSK_1/2	5.8	-95	30dBm					
				QPSK_3/4	8.6	-93	30dBm					
				16QAM_1/2	11.5	-89	30dBm					
		16QAM_3/4	16.9	-87	30dBm							
Order Options	pMDDL2450 MHK185500 pMDDL2450LC MHK118510	2X2 MIMO 2.4 GHz OEM DDL Module (1W) 2X2 MIMO 2.4 GHz Low Cost DDL Module (25dBm)	64QAM_2/3	22.2	-82	28dBm						
			64QAM_3/4	24.7	-80.5	28dBm						
			64QAM_5/6	27.4	-78	27dBm						
			4 MHz (MIMO OFF)									
Order Options	pMDDL2450 MHK185500 pMDDL2450LC MHK118510	2X2 MIMO 2.4 GHz OEM DDL Module (1W) 2X2 MIMO 2.4 GHz Low Cost DDL Module (25dBm)	BPSK_1/2	1.5	-99.5	30dBm						
			QPSK_1/2	2.9	-98	30dBm						
			QPSK_3/4	4.3	-96	30dBm						
			16QAM_1/2	5.7	-92.5	30dBm						
Order Options	pMDDL2450 MHK185500 pMDDL2450LC MHK118510	2X2 MIMO 2.4 GHz OEM DDL Module (1W) 2X2 MIMO 2.4 GHz Low Cost DDL Module (25dBm)	16QAM_3/4	8.4	-90	30dBm						
			64QAM_2/3	11.3	-85	28dBm						
			64QAM_3/4	12.5	-83	28dBm						
			64QAM_5/6	14	-80.5	27dBm						

Contact Information

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Miniature OEM Wireless Digital Data Link

The all new Pico MIMO Digital Data Link is a miniature OEM, high power, 2x2 MIMO 2.3GHz wireless OEM solution that provides the bandwidth and range needed for complex data intensive applications. The Pico MIMO DDL features 2x2 MIMO Digital Data Link, using Maximal Ratio Combining (MRC), Maximal Likelihood (ML) decoding and Low-Density Parity Check (LDPC) to achieve robust RF performance. The pMDDL features secure & simultaneous Ethernet and Serial Data communications.

Only 7 grams!

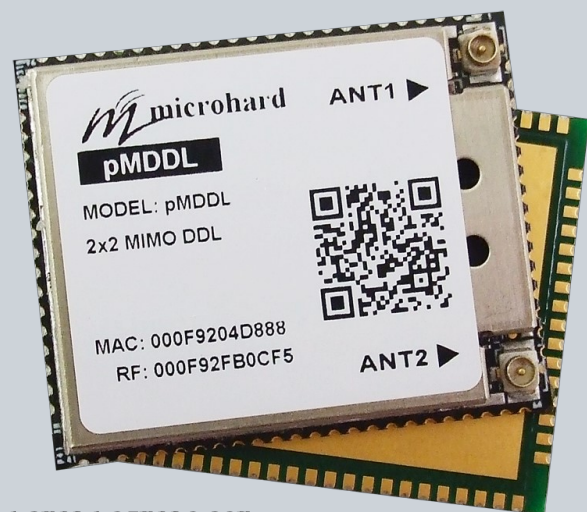
2X2 MIMO

Up to 25Mbps

Small Footprint

Ethernet + Serial

PTP | Multipoint | Relay



1.3" X 1.05" X 0.30"

pMDDL2350 Features

- Robust 2X2 MIMO 2.3 GHz Operation
- Maximal Ratio Combining (MRC), Maximal Likelihood (ML) decoding
- Low-Density Parity Check (LDPC)
- Up to 25 Mbps Iperf Throughput @ 8MHz channel (-78dBm)
Up to 2 Mbps IPerf Throughput @ 4 MHz channel (-102dBm)
- 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, Relay Operating Modes.
- Adjustable total transmit power (up to 1W)
- Interface through local console, telnet, and web browser
- Local and remote wireless firmware upgrading through FTP

Interface Options



pMDDL Motherboard

◆ Video ◆ 2X2 MIMO ◆ Ethernet ◆ Serial ◆ Security

Specifications

Frequency		2.304 - 2.39 GHz	Optimal Performance Specifications				
Error Detection		32 bits of CRC, ARQ	Modulation	IPerf Throughput (Mbps)	Optimal MRC Sensitivity (dBm)	Total Tx Power (dBm) +/- 1dB	
Encryption (Requires Export Permit)		128-bit AES (Optional 256-bit)					
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 (2X2 MIMO ON)				
Serial Data/Console Ethernet USB	RS232 TTL level (300bps to 921kbps) Dual 10/100BaseT IEEE802.3 (LAN/WAN) 2.0 (Future Development)		BPSK_1/2	3	-99.5	30dBm	
			QPSK_1/2	5.9	-98	30dBm	
		QPSK_3/4	8.8	-96	30dBm		
Firewall		Port Forwarding, Access Control, IP/MAC List.	16QAM_1/2	11.6	-92	30dBm	
Operating Modes		Point-to-Point, Point-to-Multipoint, Relay	16QAM_3/4	17.1	-90	30dBm	
Diagnostics		Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, IPerf, RSSI	64QAM_2/3	22.8	-85	30dBm	
Diagnostics	Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, IPerf, RSSI	64QAM_3/4	64QAM_3/4	25.5	-83.5	30dBm	
			64QAM_5/6	27.8	-81	30dBm	
Management		Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)	4 MHz (2X2 MIMO ON)				
Rejection		Excellent strong signal interference & rejection characteristics	BPSK_1/2	1.51	-102.5	30dBm	
Input Voltage	OEM Motherboard	Digital Voltage = 3.3V / RF Voltage = 5V 7 - 30 VDC	QPSK_1/2	2.98	-101	30dBm	
			QPSK_3/4	4.4	-99	30dBm	
			16QAM_1/2	5.8	-95.5	30dBm	
Connectors:		Antenna: UFL x2 (ANT1, ANT2) Data: 80 Pin SMT Antenna: UFL x2 (ANT1, ANT2) Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A Micro-AB USB (Console) 4 PIN Interlock (Vin)	16QAM_3/4	8.6	-93	30dBm	
OEM Motherboard	64QAM_2/3		11.4	-88	30dBm		
	64QAM_3/4		12.8	-86	30dBm		
OEM Motherboard	64QAM_3/4		14	-83.5	30dBm		
	64QAM_5/6		14	-83.5	30dBm		
Environmental			Temperature Humidity	-40°F to 185°F (-40°C to +85°C) 5-95%, non-condensing	8 MHz (MIMO OFF)		
Weight		OEM Motherboard	Approx. 7 grams Approx. 50 grams	BPSK_1/2	3	-96.5	30dBm
Dimensions		OEM Motherboard	Approx. 1.05" x 1.3" x .15" (27mm x 33mm x 4mm) Approx. 2.0" x 3.0" x 0.70" (50mm x 76mm x 18mm)	QPSK_1/2	5.8	-95	30dBm
Dimensions	OEM Motherboard	Approx. 1.05" x 1.3" x .15" (27mm x 33mm x 4mm) Approx. 2.0" x 3.0" x 0.70" (50mm x 76mm x 18mm)	QPSK_3/4	8.6	-93	30dBm	
			16QAM_1/2	11.5	-89	30dBm	
Dimensions	OEM Motherboard	Approx. 1.05" x 1.3" x .15" (27mm x 33mm x 4mm) Approx. 2.0" x 3.0" x 0.70" (50mm x 76mm x 18mm)	16QAM_3/4	16.9	-87	30dBm	
			64QAM_2/3	22.2	-82	28dBm	
Dimensions	OEM Motherboard	Approx. 1.05" x 1.3" x .15" (27mm x 33mm x 4mm) Approx. 2.0" x 3.0" x 0.70" (50mm x 76mm x 18mm)	64QAM_3/4	24.7	-80.5	28dBm	
			64QAM_5/6	27.4	-78	27dBm	
Order Options		pMDDL2350 2X2 MIMO 2.3GHz OEM DDL Module	4 MHz (MIMO OFF)				
pMDDL2350	2X2 MIMO 2.3GHz OEM DDL Module		BPSK_1/2	1.5	-99.5	30dBm	
			QPSK_1/2	2.9	-98	30dBm	
			QPSK_3/4	4.3	-96	30dBm	
			16QAM_1/2	5.7	-92.5	30dBm	
			16QAM_3/4	8.4	-90	30dBm	
			64QAM_2/3	11.3	-85	28dBm	
			64QAM_3/4	12.5	-83	28dBm	
		64QAM_5/6	14	-80.5	27dBm		

Order Options

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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	Modulation	Multicast IPerf Throughput (Mbps)	Throughput @ Sensitivity (dBm)	Maximum Tx Power (dBm) +/- 1dB
Encryption (Requires Export Permit)		128-bit AES (Optional 256-bit)				
Ports		Serial Data/Console Ethernet USB	8 MHz			
Firewall			Port Forwarding, Access Control, IP/MAC List.	BPSK_1/2	3	-96
Operating Modes		Point-to-Point, Point-to-Multipoint, Mesh	QPSK_1/2	6	-94	30dBm
Diagnostics		Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, CCQ, Iperf, 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	64QAM_2/3	23	-80	27dBm
Connectors:		Antenna: UFL x2 (Main, Diversity) Data: 80 Pin SMT	64QAM_3/4	25	-78	27dBm
Environmental		Temperature: -40°F to 185°F (-40°C to +85°C) Humidity: 5-95%, non-condensing	64QAM_5/6	28	-76	27dBm
Weight		Approx. 5 grams Approx. 50 grams Approx. 165 grams	4 MHz			
Dimensions		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) Approx. 3.05" x 2.2" x 1.1" (77mm x 55mm x 28mm)	BPSK_1/2	1.5	-99	30dBm
Approvals		FCC IC	QPSK_1/2	3	-98	30dBm
Order Options			QPSK_3/4	4.5	-96	30dBm
MHS118000 - pDDL2450 MHK118050 - pDDL2450-ENC		OEM Wireless 2.4GHz DDL Module Enclosed Wireless 2.4GHz DDL Modem	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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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!

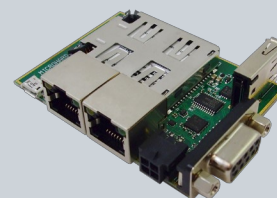


1.3" X 1.05" X 0.30"

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			
Serial Data/Console Ethernet USB	OEM Motherboard/ENC		BPSK_1/2	3	-96	30dBm
			QPSK_1/2	6	-94	30dBm
Firewall		Port Forwarding, Access Control, IP/MAC List.	QPSK_3/4	9	-91	30dBm
Operating Modes		Point-to-Point, Point-to-Multipoint, Mesh (future)	16QAM_1/2	12	-88	29dBm
Diagnostics		Remote Diagnostics, Ping, Traceroute, ARP table, DHCP active leases, SNR, RSSI	16QAM_3/4	17	-85	29dBm
Management		Local Serial Port Console, Telnet, WebUI, SNMP, FTP Upgrade, TFTP, CLI (Command Line Interface)	64QAM_2/3	23	-80	27dBm
Rejection		Excellent strong signal interference & rejection characteristics	64QAM_3/4	25	-78	27dBm
Input Voltage		Digital Voltage = 3.3V / RF Voltage = 5V 7 - 30 VDC	64QAM_5/6	28	-76	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)	4 MHz			
OEM Motherboard/ENC	Antenna: UFL Data: 80 Pin SMT		BPSK_1/2	1.5	-99	30dBm
			QPSK_1/2	3	-98	30dBm
OEM Motherboard/ENC	Antenna (Enclosed): RP-SMA Female Data: RJ-45 x2 (Ethernet) Female DB9 (Serial) USB Type A (Future) 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
Weight		Approx. 10 grams Approx. 50 grams Approx. 175 grams	64QAM_5/6	14	-80	27dBm
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)	2 MHz			
OEM Motherboard	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)		BPSK_1/2	0.78	-101	30dBm
			QPSK_1/2	1.5	-100	30dBm
OEM Enclosed	Approx. 3.05" x 2.2" x 1.1" (77mm x 55mm x 28mm)		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		

Frequency Options

Model	pDDL1800
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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			
Error Detection		32 bits of CRC, ARQ			
Encryption (Requires Export Permit)		128-bit AES, Optional 256-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			
Environmental		Temperature: -40°F to 185°F (-40°C to +85°C) Humidity: 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			
Order Options					
Model		pDDL900			
		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

Contact Information

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