

Positioning Data Link™

PDL™

High Performance Data Link

Designed for Survey Systems

19,200 Baud Rate

Higher Over-the-Air Link Rate
Extends Your Battery Life

Enhanced User Interface

Change Channels in the Field
View Status Information

Compatible with GPS RTK Equipment Worldwide

Complete Kit Solutions Available
for Your Application

Reliable

Rugged, All Season Operation

2 Year Warranty

Lower Cost of Ownership



Surveyors utilizing Global Positioning Systems require a rugged radio modem data link for precise positioning information. The PDL is compact and lightweight and offers power efficient operation. It is easy to use, and provides high performance and rugged dependability for the toughest survey environments.

PDL Products are designed to easily mount on all standard tripods and range poles. Complete kit solutions are available.



Positioning Data Link™

	High Power Base	Low Power Base	Rover
General Specifications			
DTE – DCE Interface	3 Wire, RS-232, 38.4k Baud Maximum.		
User Interface	On/Off Button. Channel Button with AutoBase™ and AutoRover™ Digital Display. Modem/Power Status Indicators. RF Power Select Toggle Switch.	On/Off Button. Channel Button with AutoBase™ and AutoRover™ Digital Display. Modem/Power Status Indicators.	On/Off Button. Channel Button with AutoBase™ and AutoRover™ Digital Display. Modem/Power Status Indicators.
Power			
External	9 – 16 VDC.		
Internal Battery	N/A.	N/A.	Lithium Ion Battery Pack.
During TX (nominal)	110 Watts.	11 Watts.	N/A.
During RX (nominal)	1.9 Watts.	0.9 Watts.	0.3 Watts.
Antenna			
External	50 Ohm, BNC.	50 Ohm, NMO.	50 Ohm, NMO.
Modem Specifications			
Link Rate/Modulation	19,200 bps/4 Level FSK. 9600 bps/GMSK. 4800 bps/GMSK.		
Link Protocols	Transparent, Packet Switched, Digipeater, TRIMTALK™	Transparent, Packet Switched, Digipeater, TRIMTALK™	Transparent, Packet Switched, TRIMTALK™
Forward Error Correction	Hamming Code (12, 8) with Data Interleaving.		
Radio Specifications			
Frequency Bands	Refer to price list for available frequency bands.		
Frequency Control	Synthesized 12.5k Hertz Resolution. ±2.5 ppm Stability.		
RF Power Select	Low/High.	Factory Programmable.	N/A.
RF Transmitter Output	2/35 Watts Maximum.	0.5 – 2 Watts.	0 Watt (Receive Only).
Sensitivity	-116 dBm (12 dB SINAD).		
Adjacent Channel Selectivity	-60 dB at 12.5k Hertz.		
Type Certification	All models are type accepted and certified for operation in the U.S. and Canada. For detailed information concerning your country's type certification, please contact your sales representative.		
Environmental Specifications			
Operating Temperature	-22° to +140° F (-30° to +60° C).		-4° to +140° F (-20° to +85° C).
Storage Temperature	-67° to +185° F (-55° to +85° C).		-4° to +185° F (-20° to +85° C).
Vibration/Shock	ANSI/ASAE EP455.		
Enclosure	IEC 144/855420 I.P. 66. Water Tight and Dust Proof.		
Mechanical Specifications			
Dimensions	6.23" W x 2.77" H x 6.58" L. (15.8 cm W x 7.0 cm H x 16.7 cm L).	8.25" L x 2.40" Diameter. (21.0 cm L x 6.1 cm Diameter).	8.25" L x 2.40" Diameter. (21.0 cm L x 6.1 cm Diameter).
Weight	2.96 lbs. (1.34 Kg).	0.65 lbs. (0.30 Kg).	0.75 lbs. (0.34 Kg).
Data/Power Connector	5 Pin LEMO #1 Shell.	5 Pin LEMO #0 Shell.	5 Pin LEMO #0 Shell.
Mount	Tripod Bracket.	5/8" – 11 Range Pole.	5/8" – 11 Range Pole.



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