

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

Greater Flexibility

New "Auto Power On" Feature

Enhanced User Interface

Change Channels in the Field
View Status Information

Compatible with GPS RTK Equipment Worldwide

Complete Kit Solutions Available
for Your Application

Rugged and Reliable

Watertight
All-Weather Operation



Surveyors utilizing Global Positioning Systems require a rugged radio modem data link for precise positioning information. The PDL is compact, lightweight and offers power-efficient operation. It is easy to use and provides high-performance and rugged dependability for the toughest survey environments. The unique design of the PDL enables it to be easily mounted on all standard tripods and range poles. Complete kit solutions are available.



Positioning Data Link™

	High Power Base	Low Power Base	Rover
DTE – DCE Interface	3-Wire, RS-232, 38.4k Baud Maximum		
User Interface	On/Off Button* ("Auto Power On" enabled when connected to power source) Channel Button with AutoBase™ and AutoRover™ Digital Display Modem/Power Status Indicators RF Power Select Toggle Switch	On/Off Button* ("Auto Power On" enabled when connected to power source) Channel Button with AutoBase™ and AutoRover™ Digital Display Modem/Power Status Indicators	On/Off Button Channel Button with AutoRover™ Digital Display Modem/Power Status Indicators
External	9 – 16 VDC		
Internal Battery	N/A	N/A	Lithium Ion Battery Pack
During TX (maximum)	110 Watts (35W)	11 Watts (2W)	N/A
During RX (maximum)	1.9 Watts	0.9 Watts	0.3 Watts
External	50 Ohm, BNC	50 Ohm, NMO	50 Ohm, NMO
Link Rate/Modulation	19,200 bps/4 Level FSK (25 kHz) 9600 bps/4 Level FSK (12.5 kHz) 9600 bps/GMSK (25 kHz) 4800 bps/GMSK (12.5 kHz)		
Link Protocols	Transparent, Packet Switched, Digipeater, TRIMTALK™	Transparent, Packet Switched, Digipeater, TRIMTALK™	Transparent, Packet Switched, TRIMTALK™
Forward Error Correction	Yes		
Frequency Bands	Refer to price list for available frequency bands.		
Frequency Control	Synthesized 12.5 kHz Resolution ±2.5 ppm Stability		
RF Power Select	Low/High	Factory Programmable	N/A
RF Transmitter Output	3/35 Watts Maximum	0.5 – 2 Watts	0 Watt (Receive Only)
Sensitivity	-110 dBm BER 10 ⁻⁵		
Adjacent Channel Selectivity	>65 dB (25 kHz), >55 dB (12.5 kHz)	>65 dB (25 kHz), >55 dB (12.5 kHz)	>60 dB (25 kHz), >50 dB (12.5 kHz)
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.		
Operating Temperature	-22° to +140° F (-30° to +60° C)		-4° to +140° F (-20° to +60° 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 Watertight and Dustproof		
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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