

Positioning Data Link

Datasheet



Surveyors utilizing Global Positioning Systems require rugged radio modem data links for precise positioning information. The PDL Low Power Base (LPB) is compact, lightweight and offer power-efficient operation. It is easy to use and provide 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.

PDL LPB

High Performance Data Link

Designed for Survey Systems

19,200 Baud Rate

High Over-the Air Link Rate
Extends Your Battery Life

Enhanced User Interface

Change Channels in the Field
View Status Information

Compatible with GPS/GNSS RTK Equipment Worldwide

Complete Kit Solutions Available
for Your Application

Rugged and Reliable

Waterproof
All-Weather Operation

2 Year Warranty

Lower Cost of Ownership

Low Power Base	
General Specifications	
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
Power	
External	9 – 16 VDC
Internal Battery	N/A
During TX (nominal)	11 Watts (2W)
During RX (nominal)	0.9 Watts
Antenna	
External	50 Ohm, NMO
Modem Specifications	
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™
Forward Error Correction	Yes
Radio Specifications	
Frequency Bands	Refer to price list for available frequency bands.
Frequency Control	Synthesized 12.5 kHz Resolution ±2.5 ppm Stability
RF Power Select	Factory Programmable
RF Transmitter Output	0.5 – 2 Watts
Sensitivity	-110 dBm BER 10 ⁻⁵
Adjacent Channel Selectivity	>65 dB (25 kHz), >55 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.
Environmental Specifications	
Operating Temperature	-22° to +140° F (-30° to +60° C)
Storage Temperature	-67° to +185° F (-55° to +85° C)
Vibration/Shock	ANSI/ASAE EP455
Enclosure	IEC 144/855420 I.P. 66 Watertight and Dustproof
Mechanical Specifications	
Dimensions	8.25" L x 2.40" Diameter (21.0 cm L x 6.1 cm Diameter)
Weight	0.65 lbs. (0.30 Kg)
Data/Power Connector	5 Pin LEMO #0 Shell
Mount	5/8" – 11 Range Pole



Pacific Crest Corporation offers complete kit solutions for most GPS systems.



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