



Positioning Data Links



PDL HPB

Surveyors utilizing Global Navigation Satellite Systems require rugged radio modem data links for precise positioning information. PDL products are compact, lightweight and offer power-efficient operation. They are easy to use

and provide high performance and rugged dependability for the toughest survey environments.

The PDL High Power Base (HPB) has a high output power of 35 W which makes it the most powerful radio of its type anywhere. With a fast over-the-air data rate, the PDL HPB also offers reduced latency for improved GPS positioning. It is easy to use and provide high performance and rugged dependability for the toughest survey environments. The PDL HPB has an enhanced user interface that allows users to view status information and also to change channels in the field in order to find the best one for transmission.

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

Features

- **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

Solutions



High 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 RF Power Select Toggle Switch
Power	
External	9 – 16 VDC
Internal Battery	N/A
During TX (nominal)	110 Watts (35W)
During RX (nominal)	1.9 Watts
Antenna	
External	50 Ohm, BNC
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	Low/High
RF Transmitter Output	2/35 Watts Maximum
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	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)
Weight	2.96 lbs. (1.34 Kg)
Data/Power Connector	5 Pin LEMO #1 Shell
Mount	Tripod Bracket



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