

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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