

Positioning Data Link

Datasheet

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 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.



ADL 45watts
Base Station



PDL 35watts
Base Station



PDL receive-only
Rover Station



SDL 25watts
Base Station



Portable Station
7 watts, multi-channel, relay,
built-in battery, bluetooth, waterproof



SDR400/TR4/TRL
(2watts transceiver built-in module)



TRH
(7watts transceiver built-in module)



25/35/45watts
RF Amplifier

PDL

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

	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* ("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
Power			
External	9-16VDC		
Internal Battery	N/A	N/A	Lithium Ion Rechargeable
During TX(nominal)	110 Watts(35W)	11 Watts(2W)	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/4Level FSK(25 kHz) 9600 bps/4Level FSK(12.5 kHz) 9600 bps/GMSK(25 kHz) 4800 bps/GMSK(12.5 kHz)		
Link Protocols	Transparent, Packet Switched, Digipeater, TRIMTALK, Satel	Transparent, Packet Switched, Digipeater, TRIMTALK, Satel	Transparent, Packet Switched, TRIMTALK, Satel
Forward Error Correction	Yes		
Radio Specifications			
Frequency Bands	Refer to price list for available frequency bands.		
Frequency Control	Synthesized 12.5 kHz Resolution ±2.5ppm Stability		
RF Power Select	Low/High	Factory Programmable	N/A
RF Transmitter Output	2/35Watts Maximum	0.5 - 2Watts	0Watts (Receive Only)
Sensitivity	-110 dBm BER 10 ⁻⁵		
Adjacent Channel Selectivity	> 65 dB(25kHz), > 55 dB(12.5kHz)		> 60 dB(25kHz), > 50HdB(12.5kHz)
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 +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		
Mechanical Specifications			
Dimensions	6.23" W x 2.77" H x 6.58" L (15.8cm W x 7.0cm H x 16.7 cm L)	8.25" W x 2.40" Diameter (21.0cm L x 6.1cm Diameter)	8.25" L x 2.40" Diameter (21.0cm L x 6.1cm Diameter)
Weight	2.96 lbs.(1.34Kg)	0.65 lbs.(0.30Kg)	0.75 lbs.(0.34Kg)
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

Shenzhen Sinosun Technology Co.,Ltd.

Address: Room 3A17, South Cangsong Building, Tairan Science Park, Futian District, Shenzhen City, Guangdong Province, P. R. China.
Postcode: 518040 Phone: +86 755 83849417 83435240 Fax: +86 755 83849434 E-mail: 13823678436@139.com WWW.SINOSUN.CN
Johnson: +86 13902912908(Moblie&WeChat) +852 44017395(Moblie&WhatsApp) Tony: +86 13823678436(Moblie&WeChat)
Beijing: +86 13811936491 Shanghai: +86 13564038257 Chengdu: +86 13540153264 Xi'an: +86 13991217256