



High Performance Wide-Band Data Link

XDL Rover



The XDL Rover is a lightweight, ruggedized UHF receiver designed for digital radio communications between 403 and 473 MHz in either 12.5 or 25 kHz channels. This sophisticated radio utilizes Pacific Crest's latest generation XDL modem technology while remaining backward compatible with existing Pacific Crest and other products. Using the latest modem technology from the leader in radio frequency data communications instantly puts your products in touch with the world's largest installed base of GNSS precise positioning systems.

Features

- **70 MHz Bandwidth Coverage
403-473 MHz bands**
Advanced data link design for high performance over entire band
- **High Over-the-Air Link Rate**
9600 bps in 12.5 kHz channels
19,200 bps in 25 kHz channels
Supports 1Hz RTK corrections for multi-GNSS receivers
- **Software-Derived Channel Bandwidth**
Compatible with both 12.5 and 25 kHz radios
- **High Environmental Capabilities**
Waterproof to IP67
High vibration tolerance
Wide temperature range

Solutions



XDL Rover SPECIFICATIONS



XDL Rover
Compact and Rugged

General Specifications	
Communications	1 RS-232 port, 115.2 kbps maximum
Power Requirements	
Internal	2550 mAhr Li-ion rechargeable battery
Charging	9 - 16 VDC
During RX	0.55 Watts nominal @3.7 VDC
Modem	
Modulation/Link Rate	4-Level FSK: 9600, 19,200 bps GMSK: 4800, 8000, 9600, 16,000, 19,200 bps
Link Protocols	Transparent EOT/EOC/FST, Packet-switched, TRIMMARK™, TRIMTALK™, SATEL®
Forward Error Correction (FEC) and Detection	Yes
Radio	
Frequency Band	403-473 MHz
Frequency Control	Synthesized 12.5 kHz tuning resolution
Frequency stability +/- 1 PPM	12.5 kHz and 25 kHz, software derived
Sensitivity	-110 dBm BER 10-5
Type Certification	Certified for operation in the U.S., Canada, Europe, Australia and New Zealand
Environmental	
Operating Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Charging Temperature	-0 °C to +25 °C (+32° F to +77°F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Shock and Vibration	MIL-STD-810F
Mechanical	
Dimensions	14.2 cm H X 8.4 cm X 2.8 cm 5.60 in X 3.30 in X 1.10 in
Weight	270 gm (0.60lbs)
Data/Power Connector	#0-shell LEMO-type 5-pin, locking

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