



High Performance Wide-Band Data Link

XDL Rover 2



The XDL Rover 2 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.

XDL Rover 2 is equipped with a Bluetooth® transceiver for cable-free communications with external devices. A serial API via the Bluetooth SPP is available for OEM developers wishing to create configuration applications for handheld computers such as Android™ devices. An example configuration app is available for select

Android devices. Serial communications is also supported by the XDL Rover 2's standard LEMO port. 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

- **Bluetooth® enabled**
Cable-free communications with external devices such as GNSS receivers
- **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
- **Pocket sized for ultimate
portability**
- **Internal rechargeable battery**
Powers receiver for up to 14 hours
- **SDK to develop Bluetooth apps
for Android devices**

Solutions



XDL Rover 2 SPECIFICATIONS



XDL Rover 2
Compact, Rugged and Bluetooth Enabled

General Specifications	
Communications	
Data/Power	1 RS-232 port 5 pin, size 0, LEMO 115200 bps maximum
Configuration	Bluetooth
Power Requirements	
Internal	2550 mAHr Li-ion rechargeable battery
During RX	0.55 Watts nominal @3.7 VDC
Input Voltage Range	10.5 - 28 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/FST, Packet-switched, TRIMMARK™, TRIMTALK™, SATEL®, Stonex
Forward Error Correction (FEC)	Yes
Radio	
Frequency Band	403-473 MHz
Frequency Control	Synthesized 6.25 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 United States and European Union
Bluetooth Specification	
Supported versions	2.1, 2.0
Profiles	Serial Port Profile (SPP)
Security	Simple Secure Pairing (SSP)
Antenna	Internal Onboard Antenna
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)

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