High Performance Compact Data Link

XDL Micro

The XDL Micro is a 0.5-2.0 Watt UHF transceiver designed for integration into products that require either a one- or two-way radio communication link covering 70 MHz in a single band. This sophisticated radio utilizes Pacific Crest's next generation XDL modem technology while remaining backward compatible with existing Pacific Crest and other products. Integrating 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 Coverage**
  Single 403-473 MHz band
  Advanced data link design for high performance over entire band
- **High Over-the-Air Link Rate**
  19,200 bps (both GMSK and 4FSK)
  Supports 1Hz RTK corrections for multi-GNSS receivers
- **Software-Derived Channel Bandwidth**
  Compatible with both 12.5 and 25 kHz radios
- **High Environmental Capabilities**
  High vibration tolerance
  Wide temperature specifications

Solutions



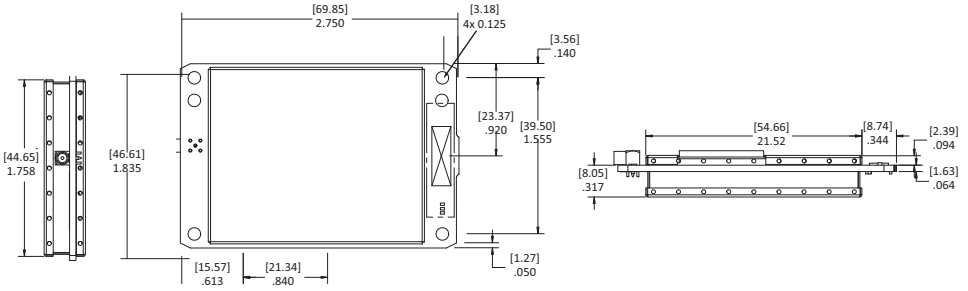



PACIFIC CREST

XDL MICRO SPECIFICATIONS

XDL Micro
Compact and Easy to Integrate

General Specifications	
DTE - DCE Interface	CMOS 115.2 kbps maximum
User Interface	Low Profile 30 Pin Connector, refer to Pin-Outs in XDL Micro Integrator's Guide
Power Requirements	
External	Regulated 3.6 VDC +/- 10%
During RX	0.45 Watts nominal @3.6 VDC
During TX	2.9W @ 0.5W RF Output 5.4W @ 2W RF Output
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 6.25 kHz tuning resolution
Frequency stability +/- 1 PPM	12.5 kHz and 25 kHz, software derived
RF Transmitter Output	0.5 or 2.0 Watt (Programmable)
Sensitivity	-110 dBm BER 10-5
Type Certification	Certified for operation in the U.S., Canada, Europe, Australia and New Zealand
Environmental	
Operating Temperature (Receiver)	-40˚ to +85˚ C (-40˚ to +185˚ F)
Operating Temperature (Transmitter)	-40˚ to +65˚ C (-40˚ to +149˚ F)
Storage Temperature	-55˚ to +85˚ C (-67˚ to +185˚ F)
Shock and Vibration	MIL-STD-810F
Mechanical	
Dimensions	69.8 mm L x 46.6 mm W x 11.2 mm H 2.750" L x 1.835" W x 0.442" H
Weight	40 g (1.4 oz)
Data/Power Connector	30-pin AVX Series 5046
Mounting	See Envelope Drawing below



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