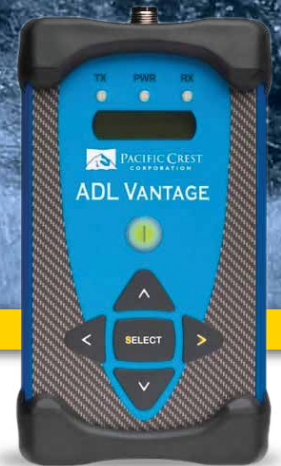


ADL Vantage

Datasheet



High Performance Advanced Data Link for Field Communications

Key Features

- Multi-Function User Interface
- Heavy-Duty Construction
- High Over-the-Air Link Rate
- Configurable Transmit Power
- Advanced 40 MHz Bandwidth
- Software-Derived Channel Bandwidth

ADL Vantage

ADL Vantage is an advanced, high speed, wireless data link built to survive the rigors of GNSS/RTK surveying and precise positioning.

This sophisticated 0.1-4.0 Watt radio modem utilizes Pacific Crest's next generation Advanced Data Link (ADL) technology while remaining backward compatible with existing Pacific Crest, Trimble and other products. ADL Vantage's full-function user interface streamlines field configuration and troubleshooting so you can maintain maximum productivity. For the most rugged and reliable digital data link, go with the Geomatics industry's standard in wireless communications – ADL Vantage.

ADL Vantage Technical Specifications

General Specifications

- Communication
 - 1 RS-232 port, 115.2 kbps maximum
- User Interface
 - 2-row, 16-character LCD display with 5 navigation buttons

Power

- External
 - 9.0 – 30.0 VDC, 2 Amp maximum
- During RX
 - 0.6 Watts nominal @ 12.0 VDC
- During TX
 - 7 Watts nominal @ 12.0 VDC, 1 W RF output
 - 13.4 Watts nominal @ 12.0 VDC, 4 W RF output

Modem Specification

- Link Rate/Modulation
 - 19,200 bps/4FSK
 - 9600 bps/4FSK
 - 19,200 bps/GMSK
 - 16000 bps/GMSK
 - 9600 bps/GMSK
 - 8000 bps/GMSK
 - 4800 bps/GMSK
- Link Protocols
 - Transparent EOT/EOC, Transparent FST, Packet-switched, TRIMMARK™, TRIMTALK™, TT450S (HW), SATEL®
- Forward Error Correction: Yes

Radio Specifications

- Frequency Bands
 - 390-430, 430-470 MHz
- Frequency Control
 - Synthesized 12.5 kHz tuning resolution
 - Frequency stability +/- 1 PPM
- Channel Bandwidth
 - 12.5 kHz and 25 kHz, software derived
- RF Transmitter Output
 - Programmable to 0.1 – 4 Watts (where permitted)
- Sensitivity
 - -110 dBm BER 10⁻⁵
- Type certification
 - All models are type accepted and certified for operation in the U.S., European Union, Russia, Australia, New Zealand, and Canada

Environmental Specifications

- Enclosure
 - IP67 (Watertight to depth of 1 meter for 30 minutes)
- Operating Temperature (Receiver)
 - 40° to +85° C (-40° to +185° F)
- Operating Temperature (Transmitter)
 - 40° to +65° C (-40° to +149° F)
- Storage Temperature (Receiver/Transmitter)
 - 55° to +85° C (-67° to +185° F)
- Vibration Specification
 - MIL-STD-810F

Mechanical Specifications

- Dimensions
 - 8.89 cm L x 4.6 cm W x 16.0 cm H
 - 3.5" L x 1.809" W x 6.3" H
- Weight
 - 705 grams (1.55 lbs.)
- Data/Power Connector
 - 5-pin, #1-shell LEMO-style
- RF Connector
 - 50 Ohm, TNC female

Contact Information:

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To locate your nearest distributor, visit www.spectraprecision.com.

Specifications and descriptions are subject to change without notice. Please visit www.spectraprecision.com for the latest product information.