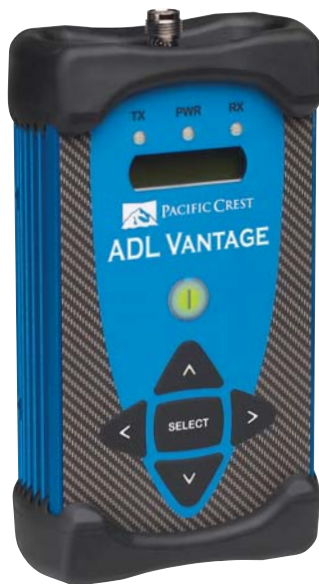




ADL Vantage

HIGH PERFORMANCE ADVANCED DATA LINK FOR FIELD COMMUNICATIONS

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.



Key Features

- ▶ Multi-function user interface
 - Allows radio configuration and troubleshooting in the field
 - Change configuration to adapt to changes in field equipment
- ▶ Heavy-Duty Construction
 - All metal construction for the ultimate in impact and EMI resistance
 - Environmentally sealed to IP67 standard
- ▶ High Over-the-Air Link Rate
 - 19,200 bps (both GMSK and 4FSK)
 - Supports 1Hz RTK corrections for multi-GNSS receivers
- ▶ Configurable Transmit Power
 - 0.1-2 W for longer battery life
 - 4.0 W for longer range (where permitted)
- ▶ Advanced 40 MHz Bandwidth
 - 390-430 and 430-470 MHz models
 - Advanced Data Link design for high performance over the entire band
- ▶ Software-Derived Channel Bandwidth
 - Compatible with both 12.5 and 25 kHz licenses

GENERAL SPECIFICATIONS

- Communication
 - RS-232 port
 - 115.2 kbps maximum
- User Interface
 - 2 Row LCD display with 16-characters with 5 navigation buttons

RADIO SPECIFICATIONS

- Frequency Bands
 - 390-430, 430-470 MHz
- Frequency Control
 - Synthesized 6.25 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
 - Type accepted and certified for operation in the U.S., Canada, Europe, Russia, Australia and New Zealand

MODEM SPECIFICATIONS

- Link Rate/Modulation
 - 4 Level FSK
 - > 9600 bps
 - > 19,200 bps
 - GMSK
 - > 4800 bps
 - > 8000 bps
 - > 9600 bps
 - > 16,000 bps
 - > 19,200 bps
- Link Protocols
 - Transparent FST™, Transparent EOT/EOC
 - Packet-switched
 - TRIMMARK™
 - TRIMTALK™
 - TT450S (HW)
 - SATEL®
- Forward Error Correction
 - Yes

ENVIRONMENTAL

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

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

PHYSICAL

- 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

ORDERING INFORMATION

- ADL Vantage 390-430 MHz K01110
- ADL Vantage 430-473 MHz K01111

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