



High Power Advanced Data Link for Field Communications

ADL Vantage Pro



ADL Vantage Pro is an advanced, high speed, high power, wireless data link built to survive the rigors of GNSS/RTK surveying and precise positioning. This sophisticated 2 - 35 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 radios. ADL Vantage Pro's 35 Watts of power maximize range, enabling you to work in difficult terrain and urban areas. Its full-function user

interface streamlines field configuration and troubleshooting so you can maintain maximum productivity. For the most rugged and reliable long-range data link, go with the Geomatics industry's new standard in wireless communications – ADL Vantage Pro.

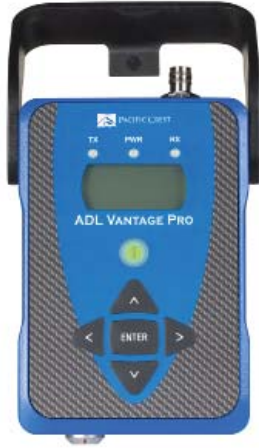
Features

- **Configurable Transmit Power**
As low as 2 Watt for longer battery life
As high as 35W for longer range
- **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
- **Advanced 40 MHz Bandwidth**
390-430 and 430-473 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 radios

Solutions



ADL VANTAGE PRO SPECIFICATIONS



ADL Vantage Pro
Compact and Easy to Use

| General Specifications | |
|-------------------------------|--|
| Communication | 1 RS-232 port, 115.2 kbps maximum |
| User Interface | 5 navigation buttons with LCD display 2-row LCD display with 16-characters (English or Cyrillic) or 8 characters (Chinese) |
| Power | |
| External | 9.0 – 30.0 VDC, 15 Amp maximum |
| During RX | 1.7 Watts nominal @ 12.0 VDC |
| During TX | 130 Watts nominal @ 12.0 VDC, 35W RF output 55 Watts nominal @ 12.0 VDC, 8W RF output 8 Watts nominal @ 12.0 VDC, 2W RF output |
| Modem Specifications | |
| 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 FST™, Transparent EOT/EOC, Packet-switched, TRIMMARK™, TRIM-TALK™, TT450S (HW), SATEL® |
| Forward Error Correction | Yes |
| Radio Specifications | |
| Frequency Bands | 390-430, 430-473 MHz |
| Frequency Control | Synthesized 6.25 kHz tuning resolution Frequency stability: +/- 1 ppm @ -40 to +85°C |
| Channel Bandwidth | 12.5 kHz and 25 kHz, software derived |
| RF Transmitter Output | Programmable to 2 - 35 Watts (where permitted) |
| Sensitivity | -110 dBm BER 10 ⁻⁵ |
| Type Certification | All models are type accepted and certified for operation in the U.S., Europe, Australia, New Zealand, and Canada |
| Environmental Specifications | |
| Enclosure | IP67 (Watertight to depth of 1 meter for 30 minutes) |
| Operating Temperature (Radio) | -40 °C to +65 °C (-40° F to +149 °F) |
| Operating Temperature (LCD) | -20 °C to +65 °C (-4° F to +149 °F) |
| Storage Temperature | -40 °C to +85 °C (-40 °F to +185 °F) |
| Vibration Specification | MIL-STD-810F |
| Mechanical Specifications | |
| Dimensions | 11.9 cm L x 8.6 cm W x 21.3 cm H 4.7" L x 3.4" W x 8.37" H (with handle) |
| Weight | 1.95 Kg (4.3 lbs.) |
| Data/Power Connector | 5-pin, #1-shell LEMO-style |
| RF Connector | 50 Ohm, TNC female |



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