



ADL VANTAGE RADIO DATA LINK



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Technical Data



Technical features	ADL VANTAGE RADIO DATA LINK
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, 4W RF output
Modem Specifications	
Link Rate/Modulation	19200 bps/4FSK
	9600 bps/4FSK
	19200 bps/GMSK
	16000 bps/GMSK
	9600 bps/GMSK
	8000 bps/GMSK
	4800 bps/GMSK
Link Protocols	Transparent EOT/EOC, 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
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., Europe, 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	690 grams (1.2 lbs.)
Data/Power Connector	5-pin, #1-shell LEMO-style
RF Connector	50 Ohm, TNC female

