



Built to Survive

The EDL II is a power-efficient, low-maintenance solution for all environmental monitoring applications. The EDL II connects directly to N-type omnidirectional and directional antennas, eliminating the requirement for RF cables. A TNC connector option allows the use of a rubber duck antenna directly on the unit for portable/mobile applications.

A fully sealed design allows the EDL II to be used in harsh environments. Connecting the EDL II directly to the antenna allows the best performance and highest reliability. This also reduces potential interference and cost issues that may result from mounting a radio modem inside the instrumentation enclosure.

EDL II

Rugged & Reliable Radio Modem

**RF Data Pipe for
Outdoor Telemetry Applications**

Environmentally Secure

Completely Sealed Construction
Waterproof and Corrosion Resistant
Designed to Operate in All
Outdoor Environments

Easy to Use

Directly Mounts To and
Accommodates a Variety of Antennas
Transparent, Packet and Digipeater
Operating Modes

Performance

Up to 19.2 kbps Data Rate
Forward Error Correction
Data Integrity Check
Compatible with PDL Radios

Worldwide Approvals

FCC, Canada and Europe

EDL II Specifications



OMNI Antenna

Options
Cable
RS-232
Antennas
Omnidirectional
Directional
Mounting Brackets
Desktop Power Supply

General Specifications	
DTE - DCE Interface	RS-232 Serial Asynchronous
User Interface	RX LED - RF Carrier Detect TX LED - Transmitter Active PWR LED - Unit is Powered
Power	
External	9 – 16 VDC
During TX (nominal)	5-11 Watts depending on RF Power
During RX (nominal)	2.2 Watts
Antenna	
Connector	50 Ohm, TNC or N-Type
Modem Specifications	
Link Rate/Modulation	19,200 bps/4 Level FSK (25 kHz) 9600 bps/4 Level FSK (12.5 kHz) 9600 bps/GMSK (25 kHz) 4800 bps/GMSK (12.5 kHz)
Link Protocols	TRIMTALK™, Fast Asynchronous, Transparent, Packet Switched, Digipeater
Forward Error Correction	Hamming Code (12,8) with Interleaving
Radio Specifications	
Frequency Bands	410-430, 430-450, 450-470 Mhz
Frequency Control	Synthesized 12.5 kHz Resolution ±2.5 ppm Stability
RF Power Select	Factory Set
RF Transmitter Output	0.5W or 2W
Sensitivity	-110 dBm BER 10 ⁻⁵
Adjacent Channel Selectivity	>65 dB (25 kHz), >55 dB (12.5 kHz)
Type Certification	All models are type accepted and certified for operation in the U.S., Canada and Europe. For detailed information concerning your country's type certification, please contact your sales representative.
Environmental Specifications	
Operating Temperature	-30° to +60° C (-22° to +140° F)
Storage Temperature	-55° to +85° C (-67° to +185° F)
Enclosure	IEC 60529 / IP 67 Water Proof/ Dust Proof
Marine Electronics	IEC Class Exposed Clause 8
Mechanical Specifications	
Dimensions	8.35" L x 1.63" D (21.21 cm L x 4.10 cm D)
Weight	0.86 lbs (0.39 Kg)
Data/Power Connector	8-Pin Waterproof Turck
Mounting Brackets	Antenna Mast, Wall