### ADL - Advanced Data Link

Versatile data link offering secure multi-point communications for mobile or stationary tactical platforms



Developed with Elbit Systems' decades of experience in networkenabled land C<sup>4</sup>I solutions, the lightweight ADL transmits and receives tactical data at a range of up to 160 km. With automatic link establishment and extremely high throughput, the ADL effectively combines airborne, land-based and maritime sensors to create a common tactical picture.



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**Lightweight components for effective operation** – With a best-inclass SWaP, Elbit Systems' ADL is comprised of three main components: a compact airborne data link terminal (ADT), a ground data link terminal (GDT) for static and mobile ground operation, and a remote videotransceiver (RVT) hand-held. The system combines command and control capabilities to manipulate the platform and payload, and can be operated and configured from a standard PC.

**Reliable and versatile digital data link communications** - ADL offers operators continuous IP networking for a wide range of mobile and stationary tactical scenarios. ADL is being used effectively to provide secure voice, video and data communications between point-to-point, point-to-multipoint and relay applications.

**High throughput data rate** - The ADL enables the transmission and reception of compressed video, telemetry and control packets at high data rates of up to 9 Mbps between multiple segments. All the data types are merged into one stream that can be encrypted and transmitted by the data link using standard IP protocols.

#### **Technical Specifications**

General	
Waveform	WBWF
Frequency range	1400-1600 MHz 400-6000 MHz optional
Frequency stability	1 ppm
Channel spacing	1 MHz
Bandwidth	4 MHz
Data rate	1-9 Mbps
Encryption	AES-256
Modulation	GMSK, QAM, OFDM
Transmit power	1 W (optional External PA)
GPS	Built-in (RVT/GDT)
Video compression	H.264 (ADT)
Interfaces	Ethernet, RS-232, composite video (ADT)
Operating temperature	-40° to + 70° Celsius
Environmental	MIL-STD-810E
EMC	MIL-STD-461F
Water immersion	3 m (RVT)
RF input	Dual antennas
Antenna	Omni, directional
Weight	ADT - 380 g RVT - 1.2 Kg
Size	ADT - 134x92x68 mm RVT - 115x59x216 mm
Input voltage	12-32 Volt DC
Power consumption	8-12 W

#### Features

- Highly versatile data link for tactical platforms
- Software-defined architecture
- Suitable for mobile or stationary platforms
- Automatic link establishment
- Fully digitized point-to-multipoint video transmissions
- High throughput rate
- Configurable operation through PC
- Tested range up to 160 km
- Best-in-class SWaP

### **Operational scenarios**

- Air-to-ground data link: combines mission and C<sup>2</sup> capabilities
- UAV data link: remains connected up to a range of 160 km
- UGS data link: for net-centric mobile ground operations
- Point-to-point data link: secure communications in multiple tactical scenarios
- Point-to-multipoint data link: the utmost in tactical versatility



#### Elbit Systems C<sup>4</sup>I and Cyber Ltd.

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