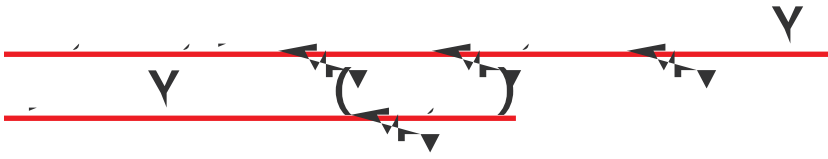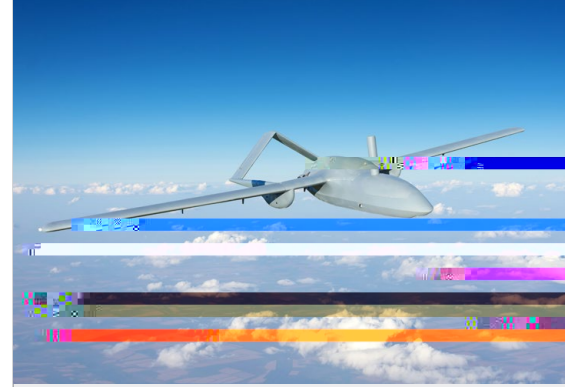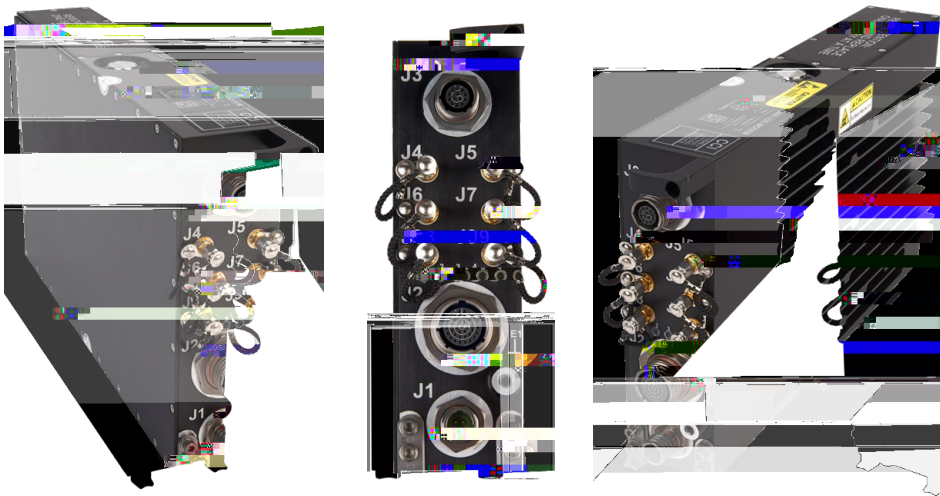# Ruggedized Airborne Next Generation Data Link

L3Harris' high-performance, environmentally rugged, wideband data link provides users with maximum flexibility and performance.

PRODUCT DESCRIPTION

The QMAe Line of Sight (LOS) Modem is an airborne, ruggedized software defined modem capable of operating in harsh military environments. It consists of a National Security Agency (NSA) certified Communications Security Module (CSM) and supporting interfacing circuitry packaged in a ¼ Airborne Transport Rack (ATR) chassis. The modem supports full duplex operation over L, S, C, and Ku frequency bands using tactical, VNW, IW, STD-CDL, and Bandwidth Efficient (BE-CDL) waveform options at data rates up to 44.73Mbps. It seamlessly interfaces with various external Radio Frequency Equipment (RFE)s and antenna equipment. The modem utilizes a Simple Network Management Protocol version 3 (SNMPv3) control interface for mission operation and a web-based GUI/KLV control interface for maintenance.

The QMAe LOS Modem, with its embedded Compact Multi-band Data Link (CMDL™ 2e), is based on a common product architecture. This architecture commonality assures interoperability between CMDL/CMDL 2 users and other L3Harris radio variants.

Built for the Harshest Environments

> Multi-band transmission and reception
  - Full-duplex
  - L-, S-, C-, and Ku-Band
> Secure digital communications
  - Type 1 Encryption
  - USG and coalition cryptographic interoperability
  - 256 bit AES
> CDL compliant
  - STD-CDL Rev H2/STANAG 7085
  - BE-CDL Rev C
  - Capstone Rev A
> NSA Type 1 certified (in process)
  - Interoperability with legacy systems
> Command and control interface
  - Web browser GUI/KLV
  - SNMPv3

SPECIFICATIONS

DATA RATES

Standard Waveforms

> STD-CDL Rev H.2:   200 kbps to 45 Mbps
> BE-CDL Rev C:
  - Modes 1 to 15:   512 kbps to 45 Mbps
  - Modes 101 to 105:   200 kbps to 45 Mbps

Optional Waveforms

> Tactical: 1.6 Mbps to 6.4 Mbps
> International waveform: 5

QMAe LOS Modem Assembly

L3Harris Technologies is the Trusted Disruptor in the defense industry. With customers' mission-critical needs always in mind, our employees deliver end-to-end technology solutions connecting the space, air, land, sea and cyber domains in the interest of national security. Visit L3Harris.com for more information.

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