

MARITIME STINGER™ ON-THE-MOVE LINE-OF-SIGHT (LOS) DATA LINK TERMINAL

Medium- to long-range multi-band directional LOS system designed for portable maritime operations

The L3Harris Maritime STINGER datalink expands the scope and flexibility of maritime missions by supporting multi-band datalinks in a single, portable package. This terminal provides secure, real-time, quad-band, bi-directional transmission and reception of high-definition video and imagery, as well as imagery and sensor data.

PRODUCT DESCRIPTION

This rugged maritime package consists of the STINGER Lite antenna with on-the-move upgrades integrated with established ROVER® 6Si and MBRFE products. This terminal is interoperable with L3Harris' ROVER and CMDL™ products aboard ISR airborne assets, including P-3, P-8A, MH-60R, MH-60S, MQ-4C Triton, MQ-8B/MQ-8C Fire Scout, MQ-9B, Apache and Puma.

The Maritime STINGER assembly is a mobile, configurable system with a low Size, Weight and Power (SWaP) that combines four frequency bands (L, S, C and Ku) along with ROVER 6Si and the MBRFE into a ruggedized single assembly. The system's portability is complemented by its easy transport and setup, which means the warfighter spends less time setting up and more time communicating. Frequencies are easily changed through an intuitive software interface. The Maritime STINGER position tracks with aircraft telemetry data or RF signal tracking.

This datalink terminal implements dual GPS and INS to auto-boresight the antenna and continuously update its position and direction during shipboard operation.

The Maritime STINGER features a rugged design capable of operating efficiently in maritime environments. The enclosure is sealed from the outside environment and includes a closed-system environmental control unit for maintaining the interior temperature under harsh external conditions.

This terminal assembly consists of the radome/antenna, modem, RFE, ECU, power supply, cables, rugged EMI enclosure with handles, lift loops, forklift pockets and bolt-down interfaces.



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Rugged, Low SWaP
Assembly Combining
Capability and
Configurability in a
Single Compact Unit

KEY FEATURES

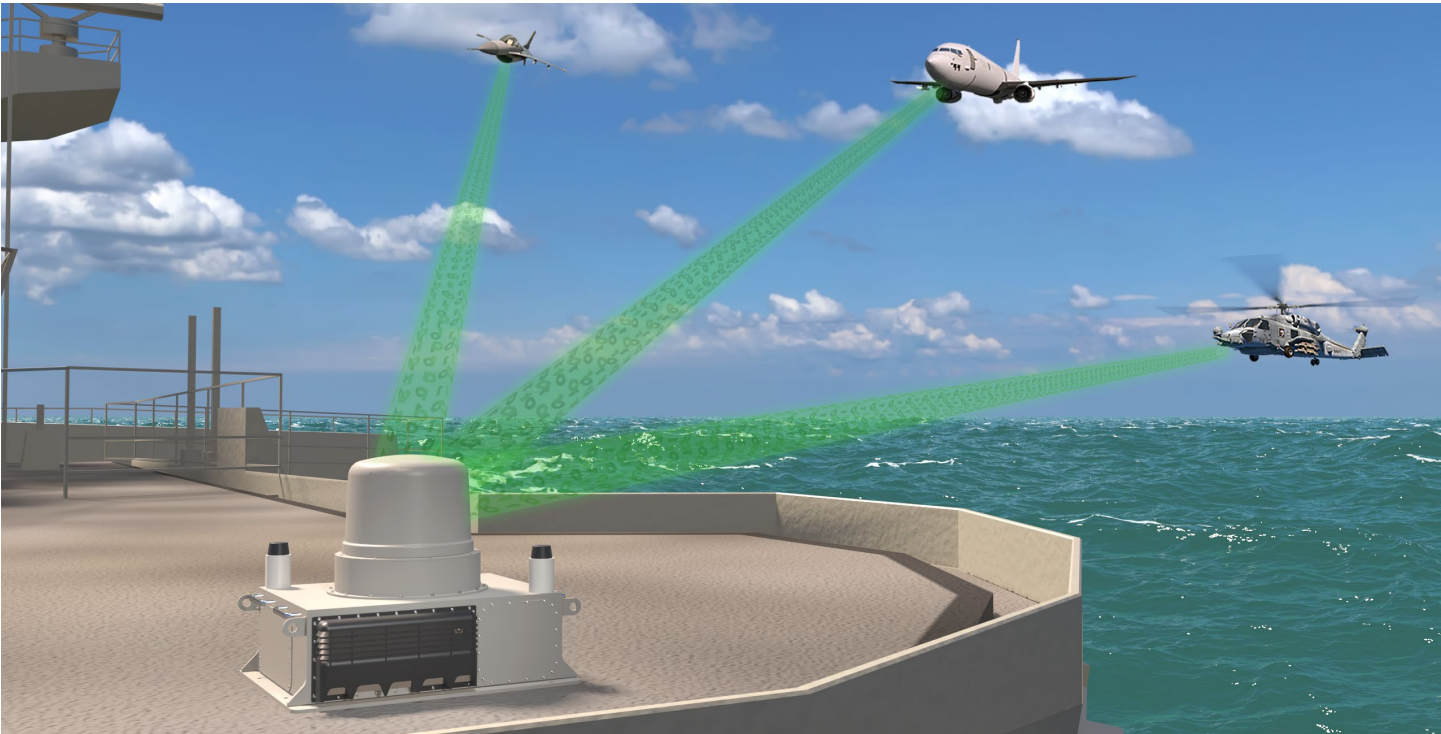
- > ROVER and CMDL interoperable
- > Supports all ROVER waveforms and features
- > Local and remote options for crypto installation below deck
- > Bi-directional video, voice and data over Ethernet
- > Quad-band (L, S, C and Ku)
- > Simple carry-on/carry-off
- > Configures quickly and easily
- > Low SWaP
- > Supports automatic telemetry tracking
- > Includes auto-acquisition feature
- > Built-in INS/dual GPS with auto-alignment
- > Metadata Pointing or RF Tracking
 - Additional wide beam antenna supports close range tracking in C- and Ku-bands
- > Environmental/EMI
 - Designed to meet MIL-STD-810 and MIL-STD-461

SPECIFICATIONS (PRELIMINARY)

ANTENNA PERFORMANCE				
	L-BAND	S-BAND	C-BAND	KU-BAND
Frequency	1625-1850 MHz	2025-2500 MHz	4400-5850 MHz	14.40-15.35 GHz
Gain (dBi)	9.5 dBi	10.5 dBi	16.5 dBi	26 dBi
Polarization	Linear vertical	Linear vertical	Linear vertical	RHCP
Max Beamwidth (AZ)	41°	34°	20°	6.5°
Max Beamwidth (EL)	47°	38°	22°	8.5°

PHYSICAL SPECIFICATIONS	
Axis Range	
Azimuth	360° (continuous)
Elevation	+89°/-20°
Ship Motion Performance	30°/s about the pitch, yaw and roll axes
SWaP	
Size (Radome)	13.95" L x 11.2" H x 14" D
Size (Radome and Chassis)	33.82" L x 26.74" W x 29.5" H
Weight (Chassis)	197.6 lb
Maximum Power	< 820 Watts
Nominal Power	< 700 Watts
Input Voltage	100-240 VAC, 50/60 Hz

ROVER 6S WAVEFORMS	
CDL	200 Kbps-45 Mbps
BE-CDL	200 Kbps-45 Mbps, Modes 1-15, 101-105
Tactical	1.6 Mbps-6.4 Mbps
Raven® DDL	1.5 Mbps and 4.5 Mbps (receive only)
VNW	50 Kbps-5 Mbps
Legacy ROVER 455k	455 Kbps (receive only)
ROVER 466ER	466 Kbps
DVB-T	3.75 Mbps to 21.11 Mbps (receive only)
Analog FM	N/A



Maritime STINGER concept of operations

Maritime STINGER

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