

STINGER® MB

Bi-Directional Terminal System Supporting Long-Distance ROVER® Communications

The STINGER MB is a fully-integrated ground terminal system for long-range data links based on L3Harris ROVER technology. It is the only tracking antenna that fully realizes the capability and flexibility of the ROVER 6S Transceiver and multi-band radio system.

PRODUCT DESCRIPTION

L3Harris' STINGER MB mobile bi-directional ground terminal is extremely rugged and easy to deploy. A two-man setup/tear down can be accomplished in less than 15 minutes and requires no additional tools. Once assembled, the terminal's embedded dual GPS/INS automatically aligns the antenna tracker to true north ($\pm 0.5^\circ$), eliminating the need for magnetic calibration or time consuming setup routines. The antenna system features a heavy-duty, continuously rotating pedestal, universal power from 100 VAC to 240 VAC and an Ethernet control interface with an integrated rear-panel touch screen controller used to turn, test and display antenna functionality.

A user-friendly interface and familiar L3Harris software simplifies long distance ISR, networking and full-motion video, via L3Harris' proven modem technology. A single PC application is the only connection required to control the entire system.

The STINGER MB is compatible with legacy L3Harris products and communicates with a range of modems. The system's flexible design also supports integration of future technologies as they emerge.



ROVER 6S
Transceiver



ROVER 6S
Transceiver

Multiband
RFE



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Complete and Flexible Line-of-Sight ISR System

KEY FEATURES

- > Supports all ROVER waveforms and features
- > Bi-directional video and data
- > CDL range in excess of 100 nm¹
- > Supports automatic telemetry tracking
- > Supports L, S, C, Ku-bands and UHF option
- > Includes auto-acquisition feature
- > Heavy-duty continuous rotating pedestal
- > Built-in dual GPS/INS with auto-alignment
- > Universal power 100 to 240 VAC
- > Rear panel local controller with touch screen
- > Integrated with modem software for full control

1. Depending on total system configuration and environment



ROVER 6S Transceiver

ROVER 6S FAMILY OF TRANSCEIVERS

Designed for air, surface, and maritime use, L3Harris ROVER 6S family of transceivers provides real-time, full-motion video (FMV) and other data for situational awareness, targeting, battle damage assessment (BDA), surveillance, relay, convoy over-watch operations, and other situations where eyes-on-target are required. The ROVER 6S Transceiver has added the DDL Raven® and emerging CDL waveforms to increase its interoperability with large airframes and virtually all UAVs and targeting pods. ROVER 6S is able to receive in two different channels, in one or

two different frequency bands, from a single data source. This frequency diversity provides link redundancy, robust reception, resiliency to platform shadowing, and supports long range NET-T capabilities.

L3Harris Radio Frequency Equipment (RFE) is designed for airborne and surface operations as the signal amplifier between the transceiver and the antenna (for both transmit and receive paths) ensuring extended range performance, link diversity, blockage, and interference mitigation.



Standard Multiband RFE
(RPM M10)



Optional ROVER 6i
Transceiver



Optional ROVER 6x
Transceiver

ANTENNA PERFORMANCE

	UHF (OPTIONAL)	L-BAND	S-BAND	C-BAND	KU-BAND
Gain (mid-band)	13.0 dBi	21.0 dBi	24.0 dBi	30.0 dBi	36.0 dBi
HPBW ¹ (EL)°	+/- 18°	+/- 8°	+/- 6.5°	+/- 2.9°	+/- 0.79°
HPBW ¹ (AZ)°	+/- 11°	+/- 4°	+/- 3.5°	+/- 1.8°	+/- 0.57°
Polarization	Vertical	Vertical	Vertical	Vertical	RHCP

SPECIFICATIONS

ROVER 6e WAVEFORMS²

- > CDL: 200 kbps to 45 Mbps
- > Bandwidth-efficient modes: 512 kbps to 45 Mbps
- > Tactical: 1.6 Mbps to 6.4 Mbps
- > Raven® DDL: 1.5 Mbps and 4.5 Mbps (receive only)
- > VNW (FSK): 50 kbps to 5 Mbps
- > Legacy ROVER 455k: 455 kbps (receive only)
- > ROVER 466ER: 466 kbps
- > Analog FM

ROVER 6e TRANSMIT AND RECEIVE BANDS²

- > Ku-Band: 14.40 GHz to 14.83 GHz and 15.15 GHz to 15.35 GHz, 1.0 MHz steps
- > C-Band: 4.40 GHz to 4.95 and 5.25 GHz to 5.85 GHz, 1.0 MHz steps
- > S-Band: 2.20 GHz to 2.50 GHz, 0.5 MHz steps
- > L-Band: 1625 MHz to 1850 MHz, 0.5 MHz steps
- > UHF: 400 MHz to 470 MHz, 1.0 kHz steps (Optional)

PHYSICAL CHARACTERISTICS

ROVER 6S Physical Dimensions

- > Size: 6.75" (w) x 4.30" (h) x 13.43" (d)
- > Weight: 10 lb. (4.5 kg)

Ground Terminal Physical Dimensions

- > Size: 53" (w) x 42" (h) x 42.5" (d)
- > Effective swept volume: 94 ft³
- > Weight³: 265 lb. (120.2 kg)

Ground Terminal Transportation

- > 5 wheeled cases
- > Weight: 54 lb. (24.5 kg) to 104 lb. (47.2 kg) per case⁴

1. Half power beam width

2. Half power beam width may vary with modem, external RF amplifier and antennas

3. Modem and RFE not included

4. Meets USAF guidelines for a two-man lift

STINGER MB

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1025 W. NASA Boulevard
Melbourne, FL 32919

[L3Harris.com](https://www.l3harris.com)