L3HARRIS®
FAST. FORWARD.

# STINGER-LITE™

## Medium-to-long-range quad-band antenna designed for ground operations

**The L3Harris STINGER-LITE antenna quickly establishes high-reliability receive and transmit data links for ground-based operations. STINGER-LITE establishes and maintains links through innovative hardware and software. The antenna integrates seamlessly with L3Harris ROVER® 6 family of modems and our field proven amplifiers.**

### PRODUCT DESCRIPTION

The STINGER-LITE antenna is a mobile, configurable ground antenna with a low SWaP that combines four frequency bands (L, S, C, and Ku) into a ruggedized single unit. The STINGER-LITE's mobility is complimented by its two-man, less than 10-minute setup time, which means the warfighter spends less time setting up and more time communicating. Frequencies are easily changed through an intuitive software interface. The STINGER-LITE position tracks with aircraft telemetry data.

The STINGER-LITE has receive and transmit capabilities combined with its GPS Inertial Navigation System. The INS allows the execution of rapid setup by eliminating the need to manually boresight during deployment by using differential GPS to automatically find true north.

The STINGER-LITE features a rugged design capable of operating efficiently in austere tactical environments and comes in three configurable options:

1. Receive (Rx) ground station
2. Transmit/Receive (Tx/Rx) ground station
3. On-the-move (OTM) antenna for vehicle mount operations

Critical components of the antenna include the controller, power supply, and internal LNAs. This product comes in a tactical kit including transit case(s), tripod, and applicable cable reels.

Use of U.S. DoD visual information does not imply or constitute DoD endorsement.

Rugged, low SWaP antenna combining capability and configurability in a single compact unit

### KEY BENEFITS

- Quad-band (L, S, C, and Ku)
- Rapid setup
- Configures quickly and easily
- Low SWaP
- ROVER 6 and ROVER 6S interoperable
- MBRFE interoperable

ROVER 6 Family of Modems

Multi-Band RFE: MBRFE
(Only needed with Tx/Rx Configuration)

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## ANTENNA PERFORMANCE (PRELIMINARY)

| | L-BAND | S-BAND | C-BAND (LOWER) | C-BAND (UPPER) | KU-BAND |
|---|---|---|---|---|---|
| **Frequency** | 1700-1900 MHz | 2000-2500 MHz | 4400-5000 MHz | 5200-5800 MHz | 14.40-15.35 GHz |
| **Gain (dBi)** | 10.0 dBi | 11.0 dBi | 15.5 dBi | 15.5 dBi | 20.0 dBi |
| **Polarization** | Linear Vertical | Linear Vertical | Linear Vertical | Linear Vertical | RHCP |
| **BW EL (-3dB)** | +/- 70.0° | +/-65.0° | +/-45.0° | +/-25.0° | +/-25.0° |
| **BW AZ (-3dB)** | +/- 70.0° | +/-65.0° | +/-45.0° | +/-35.0° | +/-30.0° |

## CONFIGURATION OPTIONS (PRELIMINARY)

### 1. Receive (Rx) Ground Station

> Position: Internal Inertial Measurement Unit (IMU) (INS with magnetometer and dual GPS)

I. GPS reports local position to ROVER products
II. Component listing: antenna, tripod, cable reel, transit cases

### 2. Transmit/Receive (Tx/Rx) Ground Station

> Position: Internal IMU (INS with magnetometer and dual GPS)

I. GPS reports local position to ROVER products
II. Component listing: Tx/Rx antenna, 10W RFE, tripod, cable reel, transit cases

### 3. On-the-move (OTM) antenna for vehicle mounted operations

> Position: Internal IMU (INS with magnetometer and dual GPS)

I. GPS reports local position to ROVER products
II. Component listing: Tx/Rx antenna, 10W RFE, tripod, cable reel, transit cases

## ANTENNA SPECIFICATIONS (PRELIMINARY)

### Input Power

> 110–240 VAC

### Axis Range

> Azimuth: 360° (continuous)

> Elevation: +90°/-20°

### SWaP

> Size (radome): 13.2" (height) x 14" (diameter)

> Weight (radome/tripod): ~65 lb

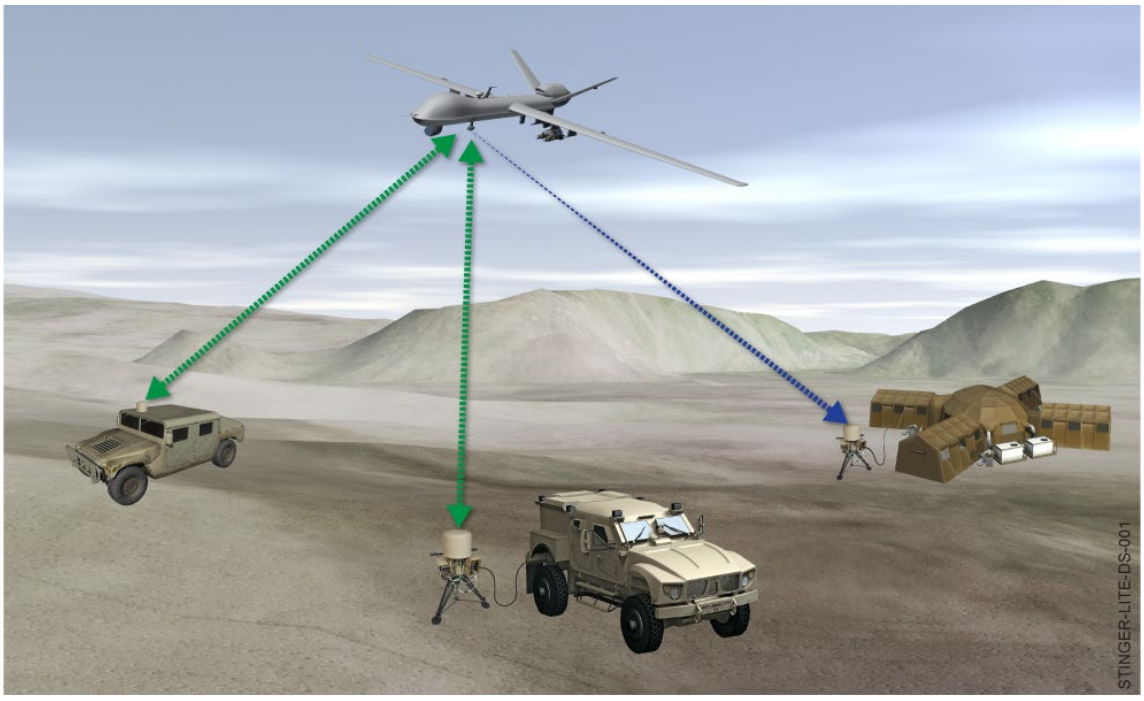
> Operation: Stationary or on-the-move

### Setup Time

> Two Man ~10 minute setup

### Interfaces

> Communications: Ethernet

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