

MULTI-BAND TRACKING ANTENNA

TRK-AUTO-SYS-02

PORTABLE, HIGH-PERFORMANCE DATALINK FOR MANNED OR UNMANNED AIRCRAFT

The Multi-Band Tracking Antenna delivers the throughput to go the distance. Operate with up to two MPU5s for frequency redundancy with any aircraft up to 120+ miles.

LONG RANGE & HIGH THROUGHPUT

- MIMO technology for high-bandwidth connectivity and reliability
- 360° continuous rotation & <1° pointing accuracy for optimal, bidirectional communication
- Operate in L-, S-, and C-Bands without switching feeds
- Dual band operation with two MPU5s or one MPU5 with a third party radio

RESILIENCE & ROBUSTNESS

- If one band becomes too congested, the other will continue to track without reconfiguration
- Continue tracking aircraft in GPS-denied environments

PORTABLE, LIGHTWEIGHT, & DURABLE

Two-person setup in <15 minutes
Rugged design for performance in harsh conditions

THE SOLDIER EMPOWERED WITH INFORMATION

- Stream HD Video & IP Data from aircraft over long distances
- Meet growing data exfiltration requirements
- Layer 2 connectivity between payloads and the enterprise

NO NDA REQUIRED

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SPECIFICATIONS

RF

Antenna Gain

L-Band: 20.8 dBi
 S-Band: 25 dBi
 Lower C-Band: 28.3 dBi
 Upper C-Band: 30.5 dBi

Beamwidth

L-Band: 11.5°
 S-Band: 6°
 Lower C-Band: 3.5°
 Upper C-Band: 2.25°

Polarization

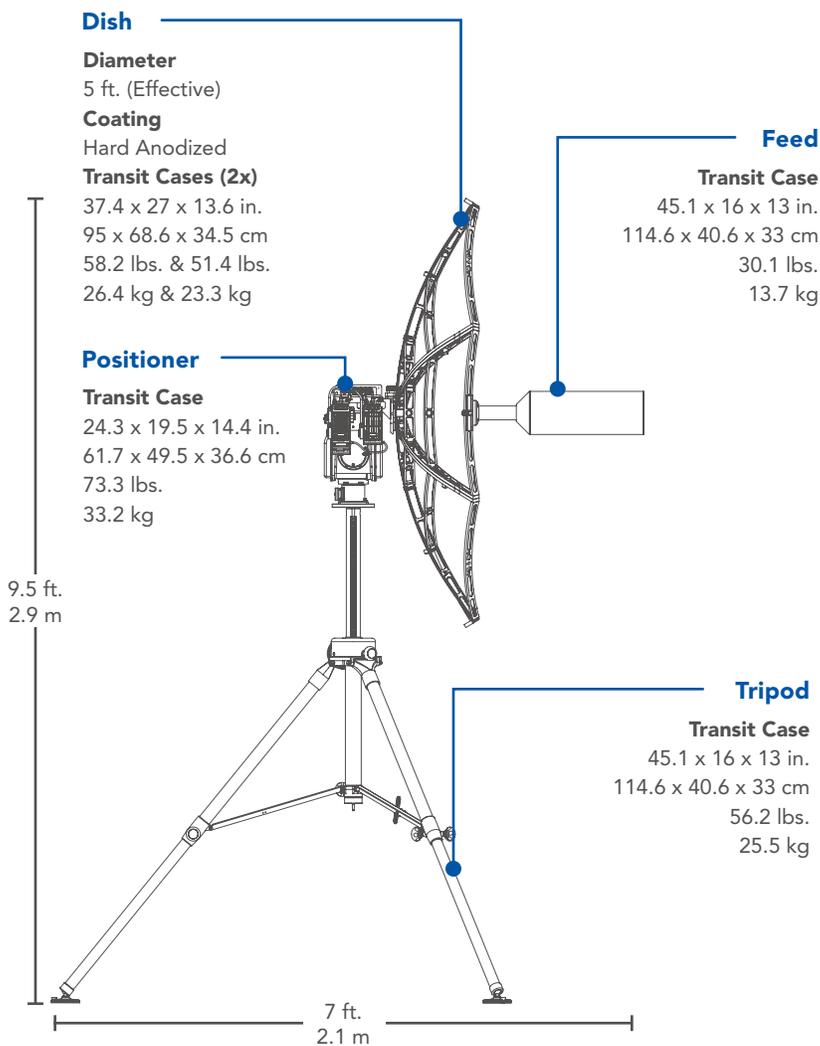
Dual Polarized
 Twist-lock change between Vertical/
 Horizontal and Slant 45°
 polarization

Feed Frequency Range

1.2 - 6 GHz
 Single Tri-Band Feed for all RF
 Module frequencies

| RF Module Compatibility | |
|-------------------------|---------------|
| Freq. (MHz) | RF Module P/N |
| 1350 - 1390 MHz | RF-1150 |
| 2025 - 2145 MHz | RF-2125 |
| 2200 - 2507 MHz | RF-2150 |
| 4400 - 5000 MHz | RF-4100 |
| 5100 - 6000 MHz | RF-5100 |

The Multi-Band Tracker supports
 3rd party radios that operate in this
 frequency range



Physical

Weight

124.54 lbs. / 56.5 kg (system only)
 269.2 lbs. / 122.1 kg (in cases)

Color

Black

Number of Cases

(5) rollable carrying cases with custom foam

Total Case Volume

30.7 ft³

Assembly/Setup Time (not including configuration)

15 minutes, 2 person

Operational

Elevation

-5° to +80°

Pan

360° continuous rotation

Pointing Accuracy

<1°

Calibration

Self-calibration via automatic heading system

Electrical

Input Voltage

100 - 240 VAC

18-34 VDC (Compatible with BB-2557, BB-2590, and BA-5590 batteries or equivalent)

Max. Power Consumption

240W

Environmental

Operating Temperature

-15°C to +55°C

Environmental

IP67

Note: Not RoHS compliant

Note: MPU5s not included. The Multi-Band Tracking Antenna only supports data-in-transit and does not provide native data processing or storage.

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