

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 highbandwidth 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

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SYSTEM 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°

PolarizationDual Polarized

Twist-lock change between Vertical/Horizontal and

Slant 45° polarization

Feed Frequency Range

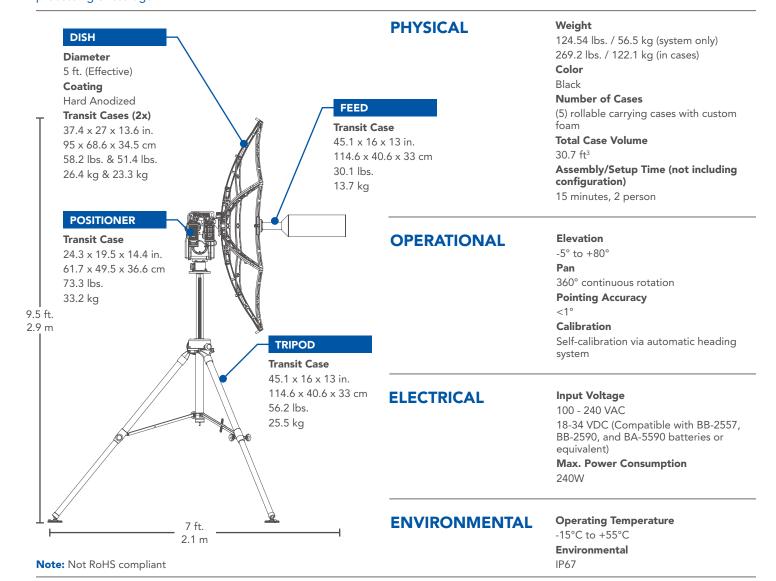
1.2 - 6 GHz

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

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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