

# **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 Against EW**

- 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</li>
- 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 persistentsystems.com

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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°

#### **Polarization Dual Polarized**

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

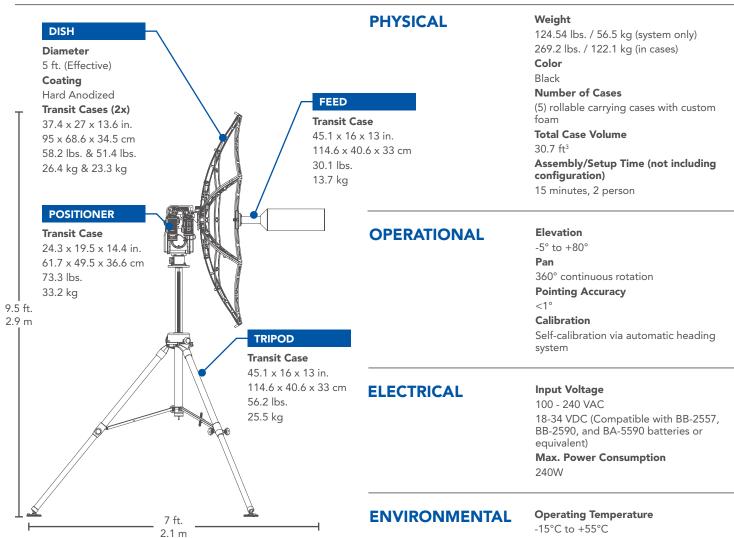
## Feed Frequency Range

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



**NO NDA REQUIRED** 

Note: Not RoHS compliant

**Environmental** 

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