



## Auto-Tracking Antenna System

**Portable, High-Performance Datalink for Manned or Unmanned Aircraft**

Introducing the Auto-Tracking Antenna System - a deployable system that works in concert with the MPU5 radio to deliver high throughput at long ranges to keep you in constant communication with your aircraft. Disassembling into five, easy-to-transport cases, the system can travel with you wherever you go. Long range high throughput communication to manned and unmanned aircraft has never been so simple.



DESIGNED TO GO THE DISTANCE

 **PERSISTENT SYSTEMS**



# TRACKING ANTENNA SPECIFICATIONS

## PHYSICAL

**Weight**  
117 lbs. / 53.1 kg (system only) 233.5  
lbs. / 106 kg (in cases)

**Color**  
Black

**Number of Cases**  
(5) rollable carrying cases wit custom  
foam

**Total Case Volume**  
30 ft<sup>3</sup>

**Assembly/Setup Time (not including  
configuration)**  
15 minutes, 2 person

## OPERATIONAL

**Elevation**  
-5° to +82°

**Pan**  
360° continuous rotation

**Pointing Accuracy**  
<1°

**Calibration**  
Self-calibration via automatic heading system

## ELECTRICAL

**Input Voltage**  
100 - 240 VAC

18 - 24 VDC (Compatible with  
BB-2557, BB-2590, and BA-5590  
batteries of equivalent)

**Max. Power Consumption** 200W

**Operating Temperature**  
-15°C to +55°C

**Environmental**  
IP67

## RF

**Antenna Feed**  
L-, S-, & C-Band Feeds included

RF Module Compatibility		
Antenna Feed	Freq. (MHz)	RF Module P/N
L-Band	1.2 - 1.6 GHz	RF-1100
		RF-1150
		RF-2125
S-Band	1.7 - 2.7 GHz	RF-2100
		RF-2150
C-Band	4.0 - 6.0 GHz	RF-5100
		RF-4100

**Antenna Gain**  
L-Band: 24 dBi  
S-Band: 28 dBi  
Lower C-Band: 35 dBi  
Upper C-Band: 36 dBi

**Beamwidth**  
L-Band: 10°  
S-Band: 6°  
Lower C-Band: 3°  
Upper C-Band: 2.5°

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

## Long Range & High Throughput

- MIMO technology for high-bandwidth connectivity and reliability
- 360° continuous rotation & <1° pointing accuracy for optimal, bidirectional communication
- Interchangeable feeds for quick changes between L-, S-, and C-Band

## Portable, Lightweight, & Durable

- Designed for two-person setup in under 15 minutes
- Sectional parabolic dish disassembles for easy transport in rollable cases that can ship via standard shipping
- Rugged design ensures performance in harsh climates & weather

## 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

