

RAMS Tactical Kit



Primary Tactical Kit

The Radar & ADS-B Monitoring System (RAMS) Tactical Kit

combines Sunhillo's proven and deployed Longport ADS-B Receiver and Antenna with the Surveillance Monitoring System (SMS) and packages the system into a portable tactical kit.

The RAMS tactical kit provides Situational Awareness and real time tracking of all aircraft (Fixed-wing, Helicopters, UAS) displayed on a high powered Laptop with the ability to utilize Primary and Secondary Radar feeds coupled with ADS-B.

RAMS Tactical Kit Components:

The Longport is currently deployed throughout the Federal Aviation Administration (FAA) and

US military at facilities across the country for Terminal ATC (STARS) and FAA NextGen programs. The Longport is able to provide up to 20 ports of radar and coupled with the **ADS-B receiver module** is able to process 1090MHz ADS-B and 978MHz UAT. Sunhillo's ADS-B Receiver accepts the transmission directly into the module from a TNC connector for the RF antenna feed.

The Surveillance Monitoring System (SMS) reads data from ADS-B, CD-2, ASTERIX and other formats and converts the data to a common XML based Surveillance Data Object for display. The SMS is able to filter based on geographic location and outputs to a 4K display.

FEATURES

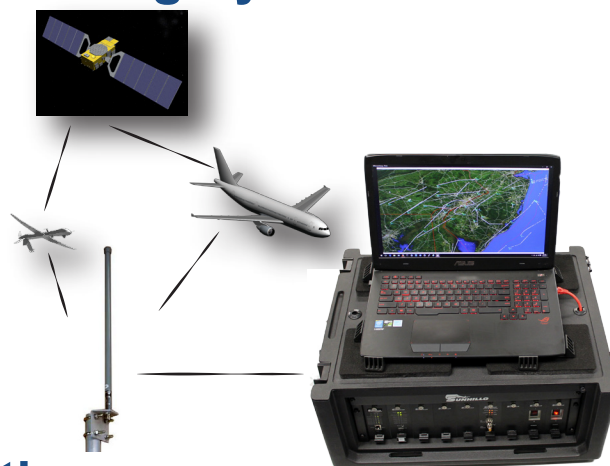
- **Situational Awareness display integrating ADS-B and Radar via the Sunhillo Surveillance Monitoring System (SMS)**
- **Portable, compact 4U case**
- **Built in ADS-B receiver**
- **Up to 20 ports of Radar**
- **Network distribution across multiple Operation Centers**

The enclosure is a portable, locking 4U case with telescoping handle and wheels for easy transport. The top of the case is padded and used to store the laptop.

A high performance laptop is included to utilize the features and 4k capability of the SMS.

ADS-B Antenna is included with all Tactical kits with a 50' low loss cable that has a range of 200 miles.

Radar & ADS-B Monitoring System Tactical Kit



Technical Specifications

Interface

- ADS-B Module includes GPS and RF antenna input with optional 5 additional Longport Processor modules

Serial Port Controls

- RS-232, RS-422, RS-449, RS-485, V35, V36, EIA-530, EIA-530A

Ethernet

- 10BASE-T, 100BASE-T, 1000BASE-T, IEEE-802.3

Protocols

- Synchronous, Asynchronous, HDLC/SDLC, Bi-Sync, Mono-Sync, TCP/IP, UDP/IP

Message Format

- SGF, ADS-B, ASTERIX, AIRCAT-500, NAS Interfacility, Mode 4, Mode S, MAR, TPS75, ARTS, CD-2, ASR9/11, custom

Power

- Dual Power Supplies (load sharing)
- 100-240VAC, 1.5 Amp Max Power Supply

Primary Case Dimensions

- Width: 23.5in / mm
- Height: 12in / mm
- Depth: 18.5in / mm
- Weight: 23.5lbs / Kg

Longport Dimensions

- Width: 19in / 483mm
- Height: 5.25in / 133mm
- Depth: 9.6in / 243mm
- Weight: 15lbs / 6.8Kg

ADS-B Antenna

5'7" Vertical ADS-B Antenna with 50' cable
Additional Cable length options:

- 100 feet
- 200 feet



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