

2U RAMS Tactical Kit



Primary Tactical Kit

The 2U Radar & ADS-B Monitoring System (RAMS) Tactical Kit

combines Sunhillo's proven and deployed RIC1 5000 radar distribution and conversion platform, the Margate II ADS-B receiver, with the Surveillance Monitoring System (SMS) and packages the system into a portable waterproof 2U 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 RIC15000 is currently deployed throughout the Federal Aviation Administration (FAA) and US military at facilities across the country. The RIC1 5000 provides up to 4 ports of radar.

The Margate II ADS-B Receiver is able to process 1090MHz ADS-B and 978MHz UAT. Sunhillo's ADS-B Receiver accepts the transmission directly into the Margate II 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

FEATURES

- **Situational Awareness display integrating ADS-B and Radar via the Sunhillo Surveillance Monitoring System (SMS)**
- **Portable, Waterproof, ultra-compact 2U case**
- **Margate II ADS-B receiver**
- **Up to 4 ports of Radar**
- **Network distribution across multiple Operation Centers**

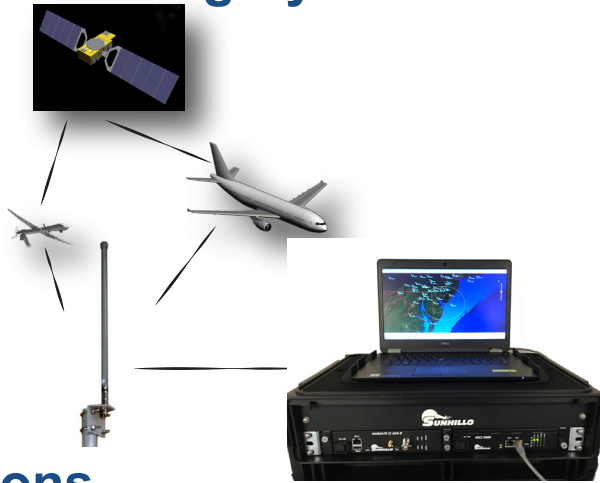
Data Object for display. The SMS is able to filter based on geographic location and outputs to a 4K display.

The enclosure is a waterproof, locking case with telescoping handle and wheels for easy transport. The 2U case is compact and portable enough to use as carry on luggage. 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.

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Technical Specifications

Interface

- Margate II ADS-B includes GPS and RF antenna input
- RIC1 5000 includes up to 4 ports of radar

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

- Power usage: 12W Max per unit
- 100-240VAC, 2 Amp Max Power Supply

2U Primary Case Dimensions

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

Populated 1U Chassis

- Height: 1.75in / 44.45mm
- Width: 17in / 431.8mm
- Depth: 9.25in / 234.95mm
- Weight: 8.5lbs / 3.86kg

ADS-B Antenna

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

- 100 feet
- 200 feet



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