

## Margate II ADS-B Receiver



## FEATURES

- Supports 978MHz UAT and 1090MHz ADS-B
- Exceeds DO-260B and DO-282 compliance
- Decodes ADS-B data transmissions
- Front panel GPS, RF antenna input connections
- 1U rack mountable or table-top compact design
- 10/100/1000 Ethernet

**Sunhillo's Margate II ADS-B Receiver** integrates technology from the Longport ADS-B Receiver and packages it into the Margate II's robust, small form factor, and versatile design. The Margate II ADS-B Receiver accepts and decodes 978MHz UAT and 1090MHz ADS-B. Sunhillo's ADS-B Receiver accepts the transmission directly into the module from a front panel female TNC connector for the RF antenna feed. Additionally, the unit features a fully integrated GPS receiver with a front panel SMA Connector for the GPS input.

Outputs include multiple formats including ASTERIX (Cat 21 or 33) over Ethernet.

**The Margate II** is a stand alone compact unit capable of fitting in our new slim 1U rack mountable chassis. The new chassis is designed to fit single or dual ADS-B Receivers or a combination of a RIC1 5000 and a Margate II ADS-B Receiver.

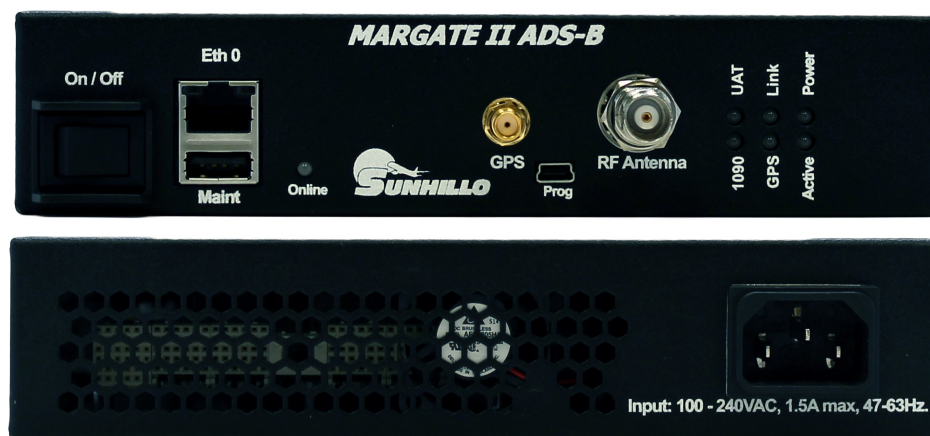
Multiple protocol conversions can be performed when paired with the RIC1 5000 in a single 1U chassis including TPS75 to SGF-IP. Additionally the Margate II paired with the RIC1 can perform message format transformations between surveillance data in ECGP, CD-2, ASR, various ASTERIX categories, ADS-B, MAR, TPS75, Mode 4, ARTS, SGF, AIRCAT-500, Mode S, Sync, Async Serial and LAN formats.

The Margate II ADS-B Receiver is built upon field proven Sunhillo Software which has been deployed through the FAA and other air traffic operations.



\*Optional 1U Sleeve, mounted with RIC1 5000

# Margate II ADS-B Receiver (AC) (P/N 010-13-ADSB-S01)



## Technical Specifications

### Ethernet

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

### ADS-B Input

- Front Panel TNC Female Connector for RF Feed
- 978 MHz UAT
- 1090 MHz ADS-B

### ADS-B Output Format

- ASTERIX (e.g., CAT 21, 23)

### Power

- Power usage: 5W per unit
- 100-240 VAC, 1.5A Max, 50-60Hz

### Processor

- Internal ARM Cortex-A8 processor

### USB

- Front Panel USB Maintenance Port

### GPS

- Front Panel SMA Female Connector
- Fully Integrated GPS Receiver

### Dimensions

#### Unit:

- Height: 1.75in / 44.45mm
- Width: 7.31in / 185.67mm
- Depth: 9.25in / 234.95mm

#### Populated 1U Chassis:

- Height: 1.75in / 44.45mm
- Width: 17in / 431.8mm
- Depth: 9.25in / 234.95mm

### Weight

- Single Margate II ADS-B Receiver: 4 lbs
- Empty Chassis: 3 lbs
- Fully Populated Chassis: 11 lbs

### Optional Rackmount Sleeve Kit (P/N 010-U-RMS)

- 1U rackmount for standard 19" racks
- Captive fasteners allow for fast removal and replacement

### Certifications and Compliance

- Pending - FCC Part 15, Class B
- Pending - UL/CSA/IEC/EN 62368-1
- Exceeds DO-260B and DO-282 compliance

ISO 9001:2015 Certified



Sunhillo Corporation  
444 Kelley Drive, West Berlin, NJ 08091-9210 USA  
Tel: +1 (856) 767-7676 Fax: +1 (856) 767-9557  
Email: [sales@sunhillo.com](mailto:sales@sunhillo.com)  
For more information visit us at [www.sunhillo.com](http://www.sunhillo.com)

2017.10