SUNHILLO

Margate II ADS-B Receiver

FEATURES

- **Supports 978MHz UAT ADS-B and 1090MHz ADS-B and TIS-B**

- **Decode ADS-B data transmissions**

- **Front panel GPS, RF antenna input connections**

- **1U rack mountable or table-top compact design**

- **Dual USB and HDMI for monitor/keyboard support**

- **10/100/1000 Ethernet**
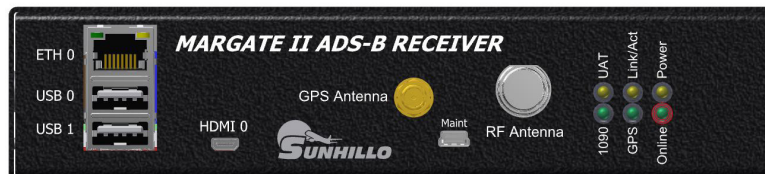
Sunhillo's Margate II ADS-B Receiver integrates technology from the Longport ADS-B Receiver and packages it into the Margate II's robust, small form factor, and versatile design. The Margate II ADS-B Receiver accepts and decodes 978MHz ADS-B and 1090MHz ADS-B and TIS-B. Sunhillo's ADS-B Receiver accepts the transmission directly into the module from a front panel 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 a variety of destinations and formats including ASTERIX (Cat 21 or 33) over ethernet.

The Margate II is positioned as a stand alone compact unit or optioned to fit 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 RICI 5000 and a Margate II ADS-B Receiver in a single 1U solution.

When paired with the RICI 5000 in a single 1U chassis **a variety of conversions** can be performed including TPS75 to SGF-IP, as well as 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.
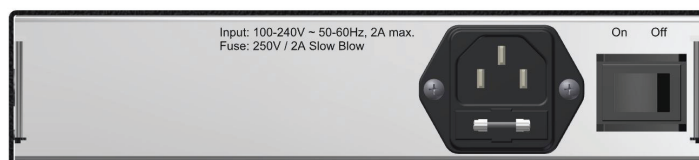
The Margate II ADS-B Receiver is built upon FAA approved and deployed Sunhillo Software and Hardware providing sensor interfacing capabilities for the FAA STARS, TAMR, ASR11, as well as the military DASR program.

*ADS-B Receiver paired with RICI5000 in optional 1U rackmount sleeve

Margate II ADS-B Receiver (AC) (P/N 040-20)

Technical Specifications *

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

ADS-B Input
• Front Panel TNC Connector for RF Feed
• 978 MHz UAT ADS-B
• 1090 MHz ADS-B and TIS-B

ADS-B Output Format
• ASTERIX (e.g., CAT 21, 23)

Agency Certifications
• FCC Part 15, Class B
• UL 60950-1
• ROHS - EU Directive 2002/95/EC

Power
• Power usage: 5W per unit
• 100-240 VAC, 2.0A Max, 50-60Hz

Processor
• Internal ARM Cortex-A8 processor

USB
• Dual Front Panel USB Ports

HDMI
• Front Panel HDMI Port

GPS
• Front Panel SMA 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
• Rackmount sleeve has space for two ADS-B Receivers or a combination of an ADS-B Receiver and a RICI 5000

* Technical Specifications subject to change

ISO 9001:2008 Certified