

## Receive & Decode ADS-B Transmissions

## Features



- ➔ Supports 978 MHz UAT and 1090 MHz ADS-B and TIS-B
- ➔ Support ADS-B and 5 additional Surveillance Processor Modules
- ➔ Front panel GPS, RF antenna input connections
- ➔ 10/100/1000 Ethernet

Sunhillo's Longport platform is a robust, versatile, and modular system designed for Surveillance Sensor Data Distribution and message conversions and now with the addition of the ADS-B Receiver module it accepts and decodes 978MHz UAT and 1090MHz ADS-B and TIS-B.

**Sunhillo's ADS-B Receiver** accepts the transmission directly into the module from a TNC connector for the RF antenna feed. Additionally, the module has an SMA connector for the GPS input. The module also features a fully integrated GPS receiver. Outputs include a variety of destinations and formats including ASTERIX CAT021 and FAA CAT033 over ethernet.

The ADS-B Receiver can also output CD2 (Virtual Radar) for compatibility with legacy systems in an interim transition phase.

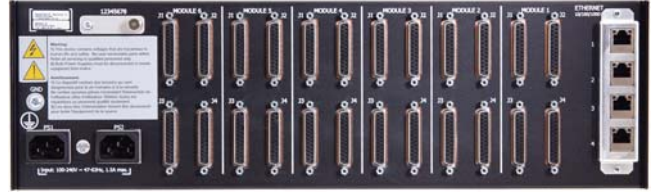
**The ADS-B Module is inserted directly into Sunhillo's Longport Platform** which is FAA approved and deployed, providing sensor interfacing capabilities for the FAA STARS, TAMR, ASR11, as well as the military DASR program.

Combined with surveillance processor modules the platform has the capability to receive, convert, and distribute radar and ADS-B transmissions which can be sent to a surveillance display like Sunhillo Surveillance Monitoring System (SMS).

**Sunhillo's ADS-B Receiver** is currently deployed to the US Military for situational awareness.



# Front and Rear Panels



## 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
- DF17/18 1090 MHz ADS-B and TIS-B

### ADS-B Output Format

- ASTERIX CAT021 (v.23,v.26, v2.1, v2.4)
- ASTERIX CAT023/033 (FAA v3)

### GPS

- Front Panel SMA Connector
- Fully Integrated GPS Receiver

### Power (Longport)

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

### Dimensions (Longport Chassis)

- Height 5.25 in./133.5 mm
- Width 17.5 in./444.5 mm (without mounting brackets)
- Depth 9.5 in./241.3 mm
- Weight 15 lbs./6.8 kg (fully populated chassis)

### Environmental (Tested to MIL-STD-810G)

- Storage Temperature: -50°C to +60°C
- Operating Temperature: 0°C to +50°C
- Operating Relative Humidity Range: 10-95%, noncondensing
- Operating Altitude: -300 ft to 10,000 ft

### Certifications and Compliance

- FCC Part 15, Class B
- UL/CSA/IEC/EN 62368-1
- ETL for Canada and US, 3023031
- FAA-G-2100H: Power

