

## Surveillance Data Distribution Platform



**Sunhillo's Longport** platform is a robust, versatile and modular system designed for surveillance sensor data distribution and message conversions. Provides sensor interfacing capabilities for the FAA STARS, ASR11, as well as the military DASR program. The Longport is scalable, providing the capability to provision modules and services as mission requirements dictate. The Longport Platform is also fully compatible with the STARS SIU.

The Longport delivers high-density system interfacing to multiple serial ports with the ability to scale to future Network Enabled Enterprise Architectures. The Longport platform enables synchronous, asynchronous, Bi-sync and high speed

LAN interconnectivity and can be universally programmed to perform essentially any data format conversion or filtering function. Common conversions performed by the Longport include message format transformations between surveillance data in CD-2, ASR, various ASTERIX categories (e.g., CAT 01, 02, 33, 34, 48, and others) in addition to sync serial and LAN formats.

The Processor Module serves as the interface to 4-serial ports of data with a maximum of 6 Processor modules/24 ports per unit. Standard serial cables connect directly to the rear of the Longport maintaining independent connectivity. The Longport chassis is a 19" standard EIA rack mount

## FEATURES

- STARS SIU Replacement
- ASR11/DASR messaging
- TCP/IP & UDP/IP protocols
- Hot-swappable modules
- Modular and scalable
- ADS-B & M4i module (avail)
- Supports messaging formats (ASTERIX, CD2, ASR and more)
- (4) 10/100/1000 Ethernet

unit with an elevation of 3U. Dual (load sharing) and single power supply configurations are available. The LAN Module provides IP-based network connectivity via quad Ethernet ports located on the rear of the unit.

# Longport: Surveillance Data Distribution Platform



## Technical Specifications

### Interface

- Up to six interface modules supporting a maximum of 24 serial ports, Ethernet module with 4 ports

### 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

### Clock Sources

- DCE, DTE, Split Clock, rates from 50-64000 standard

### Agency Certifications

- FCC Part 15, Class A
- UL 60950-1
- ROHS - EU Directive 2002/95/EC

### Compliance

- All currently applicable ANSI/ISO standards
- RoHS/WEEE

### Power

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

### Dimensions

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

### Temperature / Humidity / Altitude

- Operating: 50 to 104°F (10 to 40°C)
- Non-operating: -58 to 140°F (-50 to 60°F)
- Humidity Operating: 10 to 80%(RH non-condensing)
- Humidity Non-operating: 0-100% (condensing)
- Altitude Operating: Low Pressure Operation/Air Carriage -300' to +10,000'
- Altitude Non-operating: Low Pressure Storage/Air Transport 0' to +50,000'



Sunhillo Corporation  
444 Kelley drive, West Berlin, NJ 08091  
Tel 856.767.7676 Fax 856.767.9557  
Email: [sales@sunhillo.com](mailto:sales@sunhillo.com)  
For more information visit us at [www.sunhillo.com](http://www.sunhillo.com)  
2015/2