Longport

Surveillance Data Distribution Platform

Features

- **Fully supported by the SureLine® Software Suite**
- **SIU Replacement**
- **TCP/IP & UDP protocols**
- **Hot-swappable modules**
- **ADS-B Module available**
- **Supports messaging formats (ASTERIX, CD2, ASR, and more)**

Sunhillo's Longport platform is a robust, versatile and modular system designed for surveillance sensor data distribution and message conversions. The updated Longport is now more powerful then ever with an 800MHz Dual Core processor and the latest technology insuring the Longport is supportable for the foreseeable future. The new Longport is a form, fit, and function direct replacement to the current Longport with multiple upgrades including hardware Encryption.

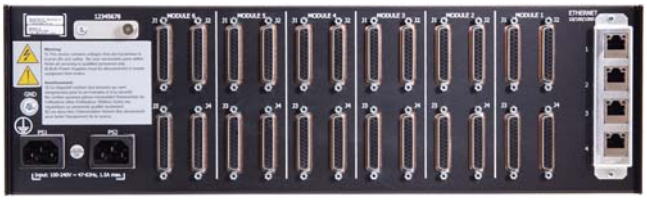
The Longport provides sensor interfacing capabilities for the FAA STARS, ASR11, as well as the military DASR program. The Longport is scalable, providing the capability to provision modules and services as mission requirements dictate.

The Longport 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.

Enabled with the Sunhillo SureLine® software the Longport supports a suite of message format transformations between surveillance data in CD-2, ASR, various ASTERIX categories (e.g., CAT 001, 002, FAA 033, 034, 048, 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-inch standard EIA rack mount unit with a 3U form factor. Dual and single power supply configurations are available. The LAN Module provides IP-based network connectivity via quad 10/100/1000 Ethernet ports located on the rear of the unit.

Front and Rear Panels



Technical Specifications

Serial Port Controls

- RS-232 (V.28), RS-422, X.21 (V.11), V35 (V.35 & V.28), EIA-530A (V.10 & V.11), RS-449/V.36 (V.10 & V.11), RS-485

Ethernet

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

Protocols

- Synchronous, Asynchronous, HDLC/SDLC, Bi-Sync, Mono-Sync, TCP/IP, UDP/IP

Message Formats

- ASTERIX (e.g., CAT 001, 002, FAA 033, 034, 048, and others), CD-2, ASR-9/11, Mode 4, Mode S, MAR, TPS75, ARTS, AIRCAT-500, ECGP, SGF, ADS-B, custom, and more

Encryption Plug-in

- Utilizes Crypto-Accelerator hardware

Clock Sources

- DCE, DTE, Split Clock (individual clock receive and transmit on each port)

Power

- Fully Populated Power usage: 73W
- 100-240 VAC, 47-63 Hz, 1.5A max

MTBF

- Dual Power Supplies: 142,364 Hours at 30°C
- Single Power Supply: 140,758 Hours at 30°C

Dimensions

- 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 14 lbs./6.35 kg (fully populated chassis)

Environmental (Tested to MIL-STD-810G)

- Storage Temperature: -50°C to +60°C
- Operating Temperature: -20°C to +50°C
- Operating Relative Humidity Range: 10-95%, noncondensing
- Operating Altitude: -300 ft to 10,000 ft

Certifications and Compliance

- CE Mark
- RoHS2 Directive 2011/65/EU as amended by (EU) 2015/863
- REACH
- FCC Part 15, Class B
- UL/CSA/IEC/EN 62368-1
- ETL for Canada and US, 3023031
- FAA-G-2100H: Power

Optional Modules

- ADS-B Receiver
- Mode 4 Interrogator