

Surveillance Data Distribution Platform



Sunhillo's Longport platform is a robust, versatile and modular system designed for surveillance sensor data distribution and message conversions. The Longport model 6000 is now more powerful than ever with a 1GHz 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.

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, bisynchronous, 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 conversions 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

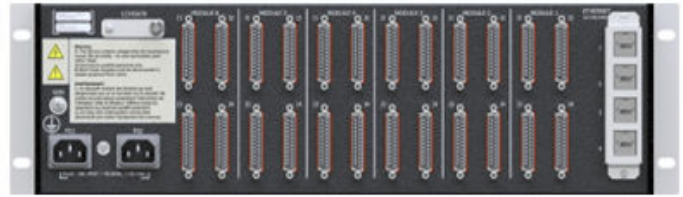
Features

- 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)

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.

FIPS 140-3 Inside (certificate # 5003) The Longport uses Sunhillo's FIPS 140-3 certified cryptographic module to provide validated cryptography for the protection of sensitive information where encryption is used (i.e., https, ssh).

Front and Rear Panels



Technical Specifications

Part Number

- 030-LP-LBU6-S01 Longport Base Unit, Model 6000, Single Power Supply
- 030-LP-LBU6-S02 Longport Base Unit, Model 6000, Dual Power Supplies
- 030-LP-CHS-S01 Longport Chassis Assembly
- 030-LP-FP-S01 Longport Filler Module
- 030-LP-PSM6-S01 Longport Power Supply Module, Model 600
- 030-LP-ESM6-S01 Longport Ethernet Switch Module, Model 6000
- 030-LP-PCM6-S00 Longport Processor Card Module, Model 6000 - Base
- 030-LP-PCM6-S01 Longport Processor Card Module, Model 6000 - Tier 1
- 030-LP-PCM6-S02 Longport Processor Card Module, Model 6000 - Tier 2

Longport Model

- 6000

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 S, MAR, TPS75, ARTS, AIRCAT-500, ECGP, SGF, ADS-B, custom, and more

Clock Sources

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

Power

- Fully Populated Power usage: 89W
- 100-240 VAC, 50-60 Hz, 1.5A max

MTBF

- Dual Power Supplies: 165,717 Hours at 30°C
- Single Power Supply: 162,696 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: 0°C to +50°C
- Operating Relative Humidity Range: 10-95%, non-condensing
- Operating Altitude: -300 ft to 10,000 ft

Certifications and Compliance

- CE & UKCA Mark
- RoHS3 Directive EU 2015/863
- REACH
- FCC Part 15, Class B
- UL/CSA/IEC/EN 62368-1
- ETL for Canada and US, 3023031
- FAA-G-2100J: Power
- FIPS 140-3 Level 1 ([Certificate 5003](#))

Optional Modules

- ADS-B Receiver

