



Longport - Surveillance Data Distribution Platform

Hot swappable modules • Redundant Power Supplies



- [Scalable](#)
- [Sustainable](#)
- [Network Enabled](#)

- STARS SIU replacement
- ASR11/DASR messaging
- TCP/IP and UDP/IP protocols
- Supports up to 24-serial ports
- Hot-swappable Interface cards
- Modular and scalable Architecture
- Redundant Power Supplies (optional)
- Front panel Indicators and E'net Maintenance Port
- Many message formats (e.g., ASTERIX, NAS Interfacility)
- Multiple (4) 10/100/1000 Base-T Ethernet Ports (Programmable VLAN Configs)

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 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.

Technical Specifications:

System Interface Characteristics				
Serial Port Controls	Ethernet	Protocols	Message Format	Clock Sources
RS-232 RS-422 RS-449 RS-485 V35 V36 EIA-530 EIA-530A	10BASE-T 100BASE-T 1000BASE-T IEEE-802.3	Synchronous Asynchronous HDLC/SDLC Bi-Sync Mono-Sync TCP/IP UDP/IP	SGF ADS-B ASTERIX AIRCAT-500 NAS Interfacility Mode 4 / Mode S MAR / TPS75 / ARTS CD-2 / ASR-9,11 Radar	DCE DTE Split Clock rates from 50 to 64000 standard

Power Requirements	
Power	Distribution
Single or Dual (load sharing) Power Supply	110-240VAC 1.5 Amp Max Power Supply

Specifications	Height	Width	Depth	Weight
Longport	5.25in./133mm	19in./483mm	9.6in./243mm	15lbs./6.80Kg

Description	Specifications	Standards
Low Temperature Operating	32°F (0°C), uncontrolled humidity	MIL-STD-810F – Method 502.4
High Temperature Operating	100°F (38°C), uncontrolled humidity	MIL-STD-810F – Method 501.4
Low Temperature Storage	Constant: -58°F (-50°C)	MIL-STD-810F – Method 502.4
High Temperature Storage	Cyclic: 115°F to 133°F (42°C to 56°C)	MIL-STD-810F – Method 501.4
Humidity Operating	55°F to 85°F, 85% Humidity (12°C to 30°C, 85% Humidity)	MIL-STD-810F – Method 507.4
Humidity Non-Operating	86°F to 133°F, 95% Humidity (30°C to 56°C, 95% Humidity)	MIL-STD-810F – Method 507.4
Altitude Operating	Low Pressure (Altitude) Operating/Air Carriage -200 to +10,000 feet	MIL-STD-810F – Method 500.4
Altitude Non-Operating	Low Pressure (Altitude) Storage/Air Transport +50,000 feet	MIL-STD-810F – Method 500.4
EMC Compliance	Federal Communications Commission (FCC)	Part 15, Class A
Safety Compliance	Underwriters Laboratories	(UL) 60950-1
Environmental Compliance	RoHS (Restriction of Hazardous Substance)	EU Directive 2002/95/EC

System Architecture:

Longport - Surveillance Data Distribution Platform (front & rear shown)

