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 than 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 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 a 3U form factor. Dual 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 Hardware

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 01, 02, 33, 34, 48, 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, 47-63Hz, 1.5A max

**MTBF**
- 142,364 Hours @30°C.

**Dimensions**
- Width: 19in / 483mm
- Height: 5.25in / 133mm
- Depth: 9.6in / 243mm
- Fully Populated Weight: 13lbs / 5.9Kg

**Environmental**
- Storage Temperature: -50°C to +60°C
- Operating Temperature: -20°C to +50°C
- Relative Humidity Range: 10 – 90%, noncondensing
- Operating Altitude: -300’ to 10,000’ per MIL-STD-810G

**Certifications and Compliance**
- CE Marking
- FCC Part 15, Class B
- RoHS2 Directive 2011/65/EU
- UL/CSA/IEC/EN 60950-1
- UL/CSA/IEC/EN 62368-1
- ETL for Canada and US, 3023031

**Optional Modules**
- ADS-B Receiver