

Brigantine Surveillance Gateway Processor



Sunhillo's Brigantine Surveillance Gateway Processor (SGP) is a dedicated 1U communication platform running Sunhillo's SureLine® software and is designed for LAN to LAN surveillance sensor data formatting, content filtering, and protocol conversions. SureLine's web-based graphical data flow editor is capable of simple and complex configurations which bridge the gaps between dissimilar ATM systems, allow for content filtering based on geographical volume selection, and provide protocol specific refinements. The SureLine graphical interface provides local data monitoring features and tools which help to visualize the data flow through a real-time radar display. For remote monitoring, Simple Network Management Protocol (SNMPv2, SNMPv3) is supported.

Brigantine SGP hardware provides a high-speed communication platform with a primary focus on LAN infrastructure. The Brigantine SGP supports twelve (12) 1Gb Ethernet Ports and two (2) Enhanced Small Form-factor Pluggable (SFP+) ports that provide up to 10Gb Ethernet over copper or single/multi-mode fiber modules. Through configuration, the twelve (12) Ethernet ports can be used as individual interfaces, grouped into an Ethernet switch-like configuration, or combined into a logical access group (LAG) providing redundancy and extended throughput. Additionally, the Brigantine SGP supports 802.1Q VLAN tagging to extend VLANs through external switches.

For additional customization, a COM Express Single Board Computer module is supported, which is coupled with SSD (M.2 SATA)

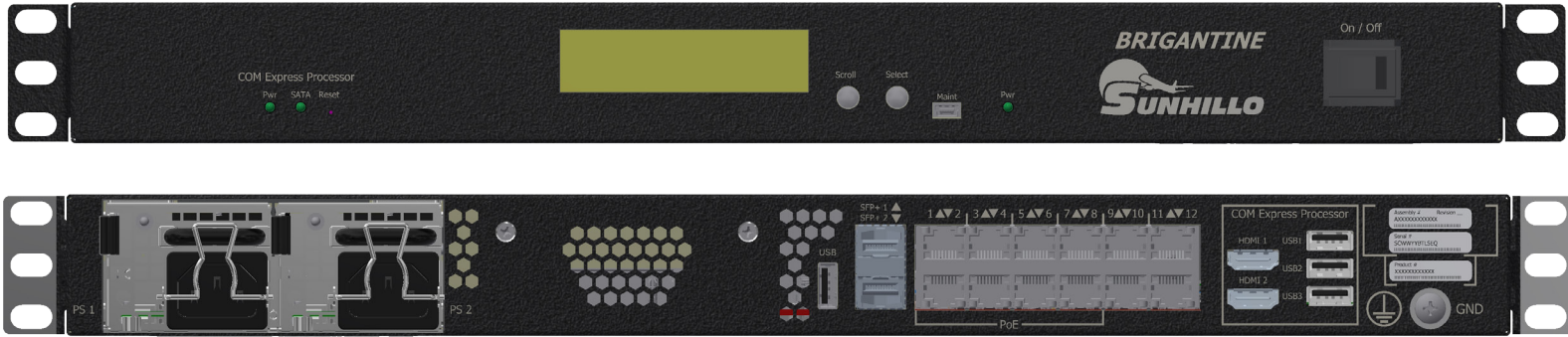
FEATURES

- LAN-to-LAN, Serial Communications Interface, and Conversion Platform
- 12 Ethernet LAN ports, 2 SFP+ ports
- Sunhillo SGP replacement
- OLED status display
- Up to 8 ports of Power over Ethernet (PoE)
- Dual, hot-swappable, redundant power supplies
- Expansion Bay for future capabilities
- 1U rackmount design
- Common User Interface (UI) through Sunhillo's SureLine® core software

storage and both internal and external Ethernet connectivity. COM Express provides robust expansion capabilities for specific customer applications while maintaining the advantage of a secure appliance package.

Brigantine SGP Security features are modeled after the Common Criteria (ISO/IEC 15408) Network Device Protection Profile (NDPP). These features are part of the standard offering for all Sunhillo platforms running the SureLine® core software. Additionally, the Brigantine SGP platform has an integrated encryption processor to streamline the demands inherent in today's mission-critical encryption tasks.

Brigantine SGP Hardware



Technical Specifications

Processor

NXP T2080 quad-core, dual-threaded PowerPC processor, 1.8 GHz, 4GB DDR3L, optional 120GB SATA SSD

Ethernet

10/100/1000BASE-T, 10GBASE (SFP+), Switch fabric is compatible with Deterministic Ethernet and supports 802.1 AVB/TSN Standards, 802.1AS - Precise Timing Protocol, 802.1Qat - Stream Reservation Protocol, 802.1Qav - Egress Pacing and Shaping, 802.1Qbv - Time Aware Shaping, 802.3az Energy Efficient Ethernet, IEEE 802.1p tagged frames, Frame and Queue priority overrides based on DA, SA, VID, Ethertype, BC, IP, PPPoE, ARP, or Snoop. Support IEEE 802.3af Power over Ethernet (15.4W per port)

Protocols

Radar Suite, 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

Front Panel Display

- 256x64 greyscale (yellow) OLED
- Menu and Select navigation buttons

Power

- Power usage: 300W Max
- 100-240VAC, 50-60Hz, 5A-3A
- 1U Modular AC Power Supply
- Hot-swappable redundant configuration available

Additional Ports and Features

- Mini USB for console

Dimensions

- Height: 1.61in / 41mm (Standard 1U)
- Width: 19in / 482mm
- Depth: 11.25in / 285.75mm

Environmental

- Storage Temperature: -50°C to +60°C
- Operating Temperature: 0°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
- ETL for Canada and US, 3023031
- UL/CSA/IEC/EN 62368-1

Option Modules

COM Express Module (Type 6)

- Baseline: Intel i7-6820EQ, 2.8 GHz, 8GB DDR4, 240GB SATA SSD
- Triple-stacked USB 2.0 ports
- Two HDMI ports



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