

GENERAL SERVICES ADMINISTRATION
FEDERAL SUPPLY SERVICE
AUTHORIZED FEDERAL SUPPLY SCHEDULE PRICE LIST

SIN 33411 PURCHASING OF NEW ELECTRONIC EQUIPMENT

FSC/PSC CODE: 7010

OLM ORDER LEVEL MATERIALS



Sunhillo Corporation

444 Kelly Drive

West Berlin, NJ 08091

p. 585.773.9497 f. 856.767.9557

www.sunhillo.com

Contact: Steven Wigent, swigent@sunhillo.com

Contract Number: **GS-35F-0364R**

Period Covered by Contract: **February 22, 2005 through February 21, 2025**

Business Size: Small Business

Schedule Title: Multiple Award Schedule

Federal Supply Group: Information Technology

Pricelist current through Modification #**PO-0056**, dated **November 17, 2020**.

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order are available through GSA Advantage!®, a menu-driven database system. The INTERNET address GSA Advantage!® is: GSAAdvantage.gov

For more information on ordering from Federal Supply Schedules go to the GSA Schedules page at GSA.gov.

CUSTOMER INFORMATION:

1. Awarded Special Item Number(s):

SIN	Description
33411 & 33411RC	Purchasing of New Electronic Equipment
OLM & OLMRC	Order Level Materials

1b. Identification of the lowest priced model number and lowest unit price for that model for each special item number awarded in the contract beginning on page 4.

1c. Descriptions of all corresponding commercial job titles with experience, functional responsibility and education: Not Applicable

2. Maximum Order: For SIN 33411: \$500,000
For SIN OLM: \$250,000

3. Minimum Order: \$100

4. Geographic Coverage: Domestic

5. Point of Production: N/A

6. Prices Shown Herein are Net (discount deducted)

7. Quantity Discount: None

8. Prompt Payment Terms: 1% Net 30
Information for Ordering Offices: Prompt payment terms cannot be negotiated out of the contractual agreement in exchange for other concessions

9. Foreign Items: None

10. Time of Delivery: Sunhillo Corporation shall deliver or perform services in accordance with the terms negotiated in an agency's order.

10b. Expedited Delivery: Consult with Contractor

10c. Overnight/2-Day Delivery: Consult with Contractor

10d. Urgent Requirements: Consult with Contractor

11. FOB Point: Destination

12. a. Ordering Address: Sunhillo Corporation
Attention: Sales Department
444 Kelly Drive
West Berlin, NJ 08091

b. Ordering Procedures For supplies and services, the ordering procedures, information on Blanket Purchase Agreements (BPA's) are found in Federal Acquisition Regulation (FAR) 8.405-3.

13. Payment Address: Sunhillo Corporation
Attn: Accounts Receivable
444 Kelly Drive
West Berlin, NJ 08091

14. Warranty Provisions: Contractor's Standard Warranty

15. Export Packing charges: Not applicable

16. Terms and conditions of rental, maintenance, and repair: Not applicable

17. Terms and conditions of installation: Not applicable

18. Terms and conditions of repair parts: Not applicable

19. Terms and conditions for any other services: Not applicable

20. List of service and distribution points: Not applicable

21. List of participating dealers: Not applicable

22. Preventive maintenance: Not applicable

22a. Environmental attributes, e.g., recycled content, energy efficiency, and/or reduced pollutants:
Not applicable

22b. Section 508: Contact Sunhillo Corporation for compliance information. The EIT standards can be found at: www.sunhillo.com.

23. DUNS Number: 044421811

24. Sunhillo Corporation is registered in the System for Award Management (SAM) database.



Real-time Interface and Conversion Item (RICI)

The Real Time Interface and Conversion Item (RICI) is a versatile and modular platform designed for surveillance sensor data formatting, filtering, and protocol conversions. It is a compact (3”H x 7”W x 5”D), standalone, unit that is an ideal solution for networks requiring a low-density, high-speed system interfacing to multiple serial ports with the ability to scale to future network demands.

Licensing options for the RICI allow for data format conversions of any supported radar / surveillance data format to any other supported format through the use of “generic” message conversion functions.

- Supports up to 4 serial ports
- Dual LAN Ethernet ports
- Serial/LAN Protocol Conversion
- 1 USB port (software updates, file transfer)
- 1 mini-USB maintenance port
- Supports legacy radar (CD-2, ASR, MAR, etc.) and ASTERIX surveillance format
- Data/Site Filtering
- Software configurable through web browser
- Front panel indicators
- TCP/IP and UDP/IP protocols
- Graphical radar display capability

RICI 5000 is a 1u version of the RICI which is designed for rack systems. The Rack Mounting Sleeve Kit allows for dual redundant RICI 5000s as well as easy rack mounting.

Item Number	Model	GSA Price
130900-2	4-Serial Port Real-time Interface Conversion Item (RICI) - Base Model. Supports sync/async serial/LAN and LAN/serial conversion. (QTY 1 -9)	\$2,956.26
130077	RICI 19-inch Rack Horizontal Mounting Kit	\$268.75
010-10-R5-S01	RICI 5000	\$3,369.45
010-U-RMS	Rack Mounting Sleeve Kit	\$460.17
010-10-GTW-S01	RICI 5000 Gateway 4-Port Version	\$5,855.04



Radar Analysis Test Tools

SGAT ECGP LAN Reader

SGAT ECGP LAN Reader is a Windows-based tool used for gathering statistics of specific ECGP radar data. It receives ECGP-encapsulated radar data packets on the LAN and display details of the data within the data packets in real-time.

- Supports CD-1, CD-2, ASR-9, MAR, ARSR-3, & ARSR-4 radars
- Provides filter options for particular ARTCC, Site, or message type
- Displays running count of messages/types per channel, ARTCC, Site, & total messages
- Supports a record and save feature (libpcap format) for later analysis.

SGAT File Player

SGAT File Player replays the contents of the captured LAN data packet file in libpcap format. A summary of file details -- file length, transmit times, number of Ethernet source, destination and port can be adjusted. Additionally, averages data bytes per second, and other file detail information – is displayed, and can be edited within File Player's GUI.

- Displays packet statistics
- Shows data in both ASCII & hexadecimal representation
- Allows cut/paste/edit of data bytes within the packet & the packet header itself
- Playback control allows start/stop anywhere within the file and continuous looping

SGAT ECGP Generator

SGAT ECGP Generator generates ECGP UDP radar data. It can be used as a load generator or as a conversion test too, and can generate targets in fixed or random locations in order to test target applications processing ECGP UDP radar data.

- Scenario control for configuration of numerous ARTCCs and Sites
- End Point control for Unicast, Broadcast, or Multicast, as well as maximum UDP frame size controls
- Message control to select what type of radar messages are generated
- Bit control for modifying individual parameters of all radar message types
- Generates CD-1, CD-2 (including full scan), ASR-9, MAR, ARSR-3, & ARSR-4
- Statistical message and packet display

SGAT Track Generator

SGAT Track Generator supports legacy radar data, ADS-B, WAM, and correlated ADS-B/radar target information with the ability to simulate high data loads, alerts, and excessive (in the range of thousands) target data to thoroughly stress Air Traffic Systems during high service volume loads.

- Correlates ADS-B and Radar
- Supports Wide Area Multilateration (WAM) scenarios
- Agile test cases with rich set of message creation interfaces
- User-specified target data
- Generates surveillance tracks
- Live data playback capability
- Simulates alarms and error conditions (e.g., Save and replay test scenarios)

SGAT RAPPI

SGAT RAPPI (SRAPPI) receives target radar messages in ECGP-encapsulated CD-2, ASR-9, MAR, and ARSR formats as they are transmitted to the LAN in ECGP UDP packets. Statistical information, Beacons of interest, and a configurable graphical representation are provided for radar messages associated with multiple ARTCC and site combinations.

A multi-view function provides a graphical representation of each message type (per site) on a single screen, while the single-view feature shows all messages for a single configured site in an “expanded” view.

- Freeze screen feature to temporary stop display of real-time messages
- Multi-site or single-site view
- Beacon of interest filtering
- Region of interest expanded view
- Detailed target message decode

Radar Analysis Test Tools Pricing

Item Number	Model	GSA Price
2605	Security Encryption Module	\$485.00
2553	SGAT Suite Real-time surveillance quality of service analysis, overall activity status, and experimental error injection Record and Playback capability	\$14,268.22
2553-1	SGAT LAN Reader	\$3,007.00
2553-2	SGAT File Player	\$6,305.00
2553-3	SGAT ECG-P Generator	\$6,305.00
2561	SGAT Track Generator	\$36,159.18
2566	SRAPPI M&C Multi-site radar status monitoring Monitor up to 120 surveillance sites simultaneously ECG-P and ASTERIX formats supported	\$12,313.67



Data Monitoring, Analysis & Awareness Tools

Wireshark ASTERIX Toolkit

The Wireshark ASTERIX Toolkit is a powerful Windows application used for capturing and decoding a number of the latest surveillance radar formats for analysis. Utilizing the Wireshark application, the ASTERIX Toolkit breaks out individual fields, and presents their corresponding values in an easy and intuitive user view.

- Supports ECGP message formats such as CD-2, ASR-9 and MAR
- Supports ASTERIX formats: such as ASR-11, Categories 001/002, 034/048, 033.
- Provides statistical information for specific ECGP and ASTERIX formats
- Supports custom filters

Surveillance Monitoring System (SMS)

The Surveillance Monitoring System (SMS) manages high-capacity data pipes, up to gigabit speeds, providing data formatting, filtering and protocol conversion. It provides a secure network layer between the Internet and the supplied radar data, which can be ADS-B, CD-2, or ASTERIX format. This item is sold two different ways (with and without the SGP).

Single Sensor Tracker

The Single Sensor Tracker (SST) is a software add-on to Sunhillo's SGP/Longport/RICI, which associates radar target plots from a single sensor into tracks.

The SST supports both Alpha-Beta and Kalman filters for enhanced track smoothing.

Multi-Track Fuser

The Multi-Track Fuser (MTF) is a software add-on to Sunhillo's SGP/Longport/RICI, which has the capability of processing multiple targets from different sensors for the same target, in order to correlate them into a single track. It uses the sensor tracks from the SST to establish multiple system tracks.

Item Number	Model	GSA Price
130078	Surveillance Monitoring System	\$14,550.00
130088	SMS (No SGP) includes Display/Processor and Monitor	\$11,456.13



Longport

The Longport is an extensible form, fit and function replacement for the Surveillance Interface Unit (SIU). Hot-pluggable processor card modules (PCM) allow expansion in 4-serial port increments, up to 24 serial ports per Longport chassis.

- STARS SIU replacement
- ASR11/DASR messaging and BI-6 support
- TCP/IP and UDP/IP protocols
- Modular and scalable architecture
- Dual Redundant Power Supplies (optional)
- Front panel indicators and Ethernet maintenance port
- Rich radar data format support and conversion (same licensing as RIC/SGP products)
- Multiple (4) 10/100/1000 Base-T Ethernet ports (programmable VLAN configurations)

Longport Products

Item Number	Model	GSA Price
030-30	Longport PCI Express Card	\$2,134.00
030-31	Longport PCI Express Card with Std. Octopus Cable	\$2,420.00
130225	Longport Mode 4 Interrogator Module	\$17,945.00
030-LP-ADSB-S01	Longport ADSB Receiver Module	\$7,701.60
030-U-AAC	ADSB Antenna and Cable	\$485.00
030-U-GAC	GPS Antenna and Cable	\$92.00
030-LP-CHS-S01	Longport Chassis Assembly	\$1612.00
030-LP-PSM-S01	Longport Power Supply Module	\$300.00
030-LP-ESM-S01	Longport Ethernet Switch Module - COTS	\$921.00
030-LP-PCM-S00	Longport Processor Card Module - COTS Base	\$2514.00



Margate

Margate is a 1u product design that incorporates a fixed I/F processor card with either a fixed Mode 4 Interrogator card, ADS-B Receiver card or a second I/F processor card. This design was created to save rack space and is ideal for deployable systems.

Margate Family of Products

Item Number	Model	GSA Price
040-M10	Margate I Mode 4 Interrogator	\$21,631.00
010-13-ADSB-S01	Margate II ADSB Receiver	\$12,803.91



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 remove 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) 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 Family of Products

Item Number	Model	GSA Price
070-10-BSGP-S02	Surveillance Gateway Processor (Brigantine) Dual Power Supplies	\$9,994.00