SUNHILLO

Multi-Protocol Data Distribution Server

Features

→ **Drop in replacement for the MPS1000**

→ **Supports the MPS API**

→ **Supports Sunhillo SureLine® core software including Tier 1 & 2**

→ **Up to 16 High-Speed WAN Ports**

→ **Optional COM Express Single Board Computer**

The Ventnor is the next generation product from Sunhillo. Offering a drop in solution for existing MPS1000 customers, the Ventnor provides enhanced capabilities over the existing MPS1000 product, while addressing multiple markets with Sunhillo's feature rich software.

The Ventnor provides access to the MPS application programming interface (API) and the associated integrated protocol suite. These protocols enable development engineers to proceed directly to integration and application development efforts.

Additionally, the Ventnor is the first product that completely integrates the MPS API with the Sunhillo surveillance sensor data formatting, filtering, and protocol conversion capabilities. Support for an optional COM Express Single Board Computer is also available within the Ventnor,

providing additional customer specific functionality and processing capabilities.

The Ventnor offers the following network interface and conversion capabilities:

- **Serial-to-LAN** – receives radar data through up to 16 serial ports and multicasts/unicasts the data onto a Local Area Network (LAN)

- **LAN-to-Serial** – receives data via the LAN and transmits data out onto serial port connection (s).

- **Serial-to-Serial** – receives up to 16 lines of serial data and multiplexes the data for transmission on a single serial line.

- **LAN-to-LAN** –receives data via the LAN and multicasts/ unicasts it onto the LAN.

Sunhillo's comprehensive suite of protocols provides complete connectivity solutions for Radar, TADIL-B, HDLC, Async, and SBSI protocols.

Ventnor Part Numbers

Part Number:	Description:
070-08-VNT-S01	Ventnor, 8-Port, Single Power Supply
070-08-VNT-S02	Ventnor, 8-Port, Dual Power Supply
070-08-VNT-S03	Ventnor, Tier 1, 8-Port, Single Power Supply
070-08-VNT-S04	Ventnor, Tier 1, 8-Port, Dual Power Supply
070-16-VNT-S01	Ventnor,16-Port, Single Power Supply
070-16-VNT-S02	Ventnor, 16-Port, Dual Power Supply
070-16-VNT-S03	Ventnor, Tier 1, 16-Port, Single Power Supply
070-16-VNT-S04	Ventnor, Tier 1, 16-Port, Dual Power Supply

Part Number:	Description:
070-08-VCOM-S01	Ventnor, 8-Port, Single Power Supply
070-08-VCOM-S02	Ventnor, 8-Port, Dual Power Supply
070-08-VCOM-S03	Ventnor, Tier 1, 8-Port, Single Power Supply
070-08-VCOM-S04	Ventnor, Tier 1, 8-Port, Dual Power Supply
070-16-VCOM-S01	Ventnor, 16-Port, Single Power Supply
070-16-VCOM-S02	Ventnor, 16-Port, Dual Power Supply
070-16-VCOM-S03	Ventnor, Tier 1, 16-Port, Single Power Supply
070-16-VCOM-S04	Ventnor, Tier 1, 16-Port, Dual Power Supply

Part Number:	Description (with COM Express):
070-U-PS150	Ventnor, 150W Power Supply Module
PT-ACC334-11919	4 x RS232 Hydra Cable, DTE with jackscrews
PT-ACC334-12274	4 x RS232 Hydra Cable, DTE with thumbscrews
PT-ACC334-11969	4 x EIA530 Hydra Cable, DTE with jackscrews
PT-ACC334-12273	4 x EIA530 Hydra Cable, DTE with thumbscrews
PT-ACC334-11921	4 x RS449 Hydra Cable (Pin), DTE with jackscrews
070-U-CONS	Ventnor, Console Cable Kit
090-CBL-HDMI01	6.6' HDMI to Micro HDMI Cable

Technical Specifications

Serial Port Controls (available as 8 or 16 ports)

→ RS-232 (V.28), X.21 (V.11), EIA-530 (V.10 & V.11), EIA-530A(V.10 & V.11), RS-449/V.36

Ethernet

→ 10BASE-T, 100BASE-T, 1000BASE-T, IEEE-802.3

Protocols

→ Synchronous, Asynchronous, HDLC/SDLC Suite, Radar Suite, 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

Clock Sources

→ DCE, DTE, Partial Split Clock, drive TXC, receive RXC

Power

→ Power usage: 12W Max per unit - Standard Configuration
→ 60W Max per unit - COM Express
→ 100-240 VAC, 50-60Hz, 2-4A
→ 1U Modular AC Power Supply
→ Hot-swappable redundant configuration available

Additional Ports

→ Mini USB for console
→ Two USB ports (Optional COM Express)
→ HDMI (Optional COM Express)

Dimensions

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

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%, noncondensing
→ Operating Altitude: -300 ft to 10,000 ft

Certifications and Compliance

→ CE Mark
→ RoHS2 Directive 2011/65/EU as amended by (EU) 2015/863
→ REACH
→ FCC Part 15, Class B
→ UL/CSA/IEC/EN 62368-1
→ ETL for Canada and US, 3023031
→ FAA-G-2100H: Power

MTBF

→ 16 Port, Single Power Supply: 313,023 hours
→ 16 Port, Single Power Supply, COM Express: 225,125 hours

*Additional MTBF data is available by request

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