

Multi-Protocol Data Distribution Server

Features



- Drop in replacement for the Ventnor 5000 & 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 6000**, is a full lifecycle refresh of the legacy Ventnor design. It is a drop in replacement for both the Ventnor, model 5000, and MPS1000 products.

The Ventnor provides enhanced capabilities over the existing Ventnor and MPS1000 products, while addressing multiple markets. **Sunhillo's SureLine® Software Suite** gives the user the ability to provide access for configuration and maintenance via a secure Web Interface from a host PC over https as well as low bandwidth text based interface called STUI over ssh or local serial console.

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 connections

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.

FIPS 140-3 Inside - certificate # 5003 The Ventnor uses Sunhillo's FIPS 140-3 certified cryptographic module to provide validated cryptography for the protection of sensitive information where encryption is used (i.e., https, ssh).

Ventnor Part Numbers

Part Number:	Description	Part Number:	Description
070-08-VNT6-S01	Ventnor 6000, 8-Port, Single Power Supply	070-08-VCOM6-S01	Ventnor 6000, 8-Port, w/COM Express, Single Power Supply
070-08-VNT6-S02	Ventnor 6000, 8-Port, Dual Power Supply	070-08-VCOM6-S02	Ventnor 6000, 8-Port, w/COM Express, Dual Power Supply
070-08-VNT6-S03	Ventnor 6000, Tier 1, 8-Port, Single Power Supply	070-08-VCOM6-S03	Ventnor 6000, Tier1, 8-Port, w/COM Express, Single Power Supply
070-08-VNT6-S04	Ventnor 6000, Tier 1, 8-Port, Dual Power Supply	070-08-VCOM6-S04	Ventnor 6000, Tier 1, 8-Port, w/COM Express, Dual Power Supply
070-16-VNT6-S01	Ventnor 6000, 16-Port, Single Power Supply	070-16-VCOM6-S01	Ventnor 6000, 16-Port, w/COM Express, Single Power Supply
070-16-VNT6-S02	Ventnor 6000, 16-Port, Dual Power Supply	070-16-VCOM6-S02	Ventnor 6000, 16-Port, w/COM Express, Dual Power Supply
070-16-VNT6-S03	Ventnor 6000, Tier 1, 16-Port, Single Power Supply	070-16-VCOM6-S03	Ventnor 6000, Tier 1, 16-Port, w/COM Express, Single Power Supply
070-16-VNT6-S04	Ventnor 6000, Tier 1, 16-Port, Dual Power Supply	070-16-VCOM6-S04	Ventnor 6000, Tier 1, 16-Port, w/COM Express, Dual Power Supply
070-16-VCOM6-S04		070-16-VCOM6-C02	Ventnor 6000, 16-Port, w/COM Express, Dual Power Supply - FAA RMLS
Part Number:	Description		
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		
PT-ACC334-11922	4 x RS232 Hydra Cable (Pin), Null Modem, with thumbscrews		
PT-ACC334-11923	4 x RS232 Hydra Cable, DTE with jackscrews, pin 7 GND mod		
PT-ACC334-11924	4 x RS232 Hydra Cable, Null Modem, pin 7 GND, DB25M		
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

- 60W Max per unit - COM Express
- 100-240 VAC, 50-60Hz, 4-2A
- 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

Weight

- Single Power Supply, no COM Express
 - 8 port: 7.0lbs/3.18kg | 16 port 8.0lbs/3.63kg
- Single Power Supply, COM Express
 - 8 port: 9.0lbs/4.08kg | 16 port 10.0lbs/4.54kg
- Dual Power Supply, no COM Express
 - 8 port: 8.0lbs/3.63kg | 16 port 9.0lbs/4.08kg
- Dual Power Supply, COM Express
 - 8 port: 10.0lbs/4.54kg | 16 port 11.0lbs/4.99kg

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%, non-condensing
- Operating Altitude: -300 ft to 10,000 ft

Certifications and Compliance

- CE & UKCA Mark
- RoHS3 Directive EU 2015/863
- REACH
- FCC Part 15, Class B
- UL/CSA/IEC/EN 62368-1
- ETL for Canada and US, 3023031
- FAA-G-2100J: Power
- FIPS 140-3 Level 1 ([Certificate #5003](#))

