Cerberus® PRO Modular system
Virtual Network Tunnel
Models VNT-PC, VNT-MP and VNT-APP

Architect & Engineer Specifications

- Connects multiple, independent Cerberus PRO Modular system networks
- One (1) global-page riser (GCNET) across a campus or site
  - Multi-mode or single-mode fiber-optic connections
  - Single-mode fiber-optic connections made with Model Scalance X204-2LD
- Can be combined with existing Cerberus PRO Modular system Global Paging
- Virtual Network Tunnel (VNT) real-time paging within or across buildings accomplished via speaker zone
- Supports HNET | XNET and DNET monitoring between VNTs
- Up to 64 Cerberus PRO Modular system panels (with VNT) can be used for up to 16 inter-building paging stations
- UL 864 10th Edition Listed

Product Overview

The Virtual Network Tunnel (VNT) from Siemens – Fire Safety is an efficient means for real-time communications, as part of a Fire Command Center or a Building network. Each VNT, which includes a fanless | headless industrial computer, receives its operating power from a Cerberus PRO Modular system control panel.

This communication terminal is responsible for supporting the intercommunication of system components, transporting HNET | XNET and DNET supervision | monitoring between VNTs via voice-over-internet protocol (VoIP). The VNT routes audio over other VoIP when required between VNTs. The VNT Gateway both generates and distributes audio.

With Model VNT-APP, the software to the runtime Virtual Network Tunnel (VNT) Application is provided externally, via a Universal Serial Bus (USB) stick. The USB stick plugs into a USB port on the Siemens fanless industrial computer, Model VNT-PC, where the software application can be downloaded and installed.

A VNT mounts to a VNT mounting plate, Model VNT-MP, in a Cerberus PRO Modular system CAB1 | CAB2 or CAB3 enclosure.

Cerberus PRO Modular system interfaces are used in correlation to the VNT Gateway in the following ways:

- 100BaseT TCP / IP connection to a local Fiber Ring Switch
- This means transports the network signals (HNET | XNET and DNET); audio; supervision, and monitoring data streams
- one (1) or more independent HNET RS-485 interfaces to the module network of a Cerberus PRO Modular system panel, or its components
- one (1) XNET RS-485 interface to a Cerberus PRO Modular system with a given system
- one (1) HNET RS-485 interface to a Cerberus PRO Modular system with a given system
- one (1) DNET RS-485 interface to a Cerberus PRO Modular system with a given system
- an audio input to accept a microphone-paging source
- power-connection source (from a Cerberus PRO Modular panel) to a given system
Electrical Ratings

<table>
<thead>
<tr>
<th>Input Voltage:</th>
<th>24VDC, regulated</th>
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<tbody>
<tr>
<td>Input Current:</td>
<td>1.7A @ 24VDC max.</td>
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**NOTE:** All connections are supervised and power-limited, unless otherwise stated.

Temperature and Humidity Range

The Virtual Network Tunnel is UL Listed for indoor dry locations within a temperature range of 120 *°/- 3°F (49 *°/- 2°C) to 32 *°/- 3°F (0 *°/- 2°C) and a relative humidity of 93 *°/- 2% at a temperature of 90 *°/- 3°F (32 *°/- 2°C).

Details for Ordering

<table>
<thead>
<tr>
<th>Model Or Type</th>
<th>Part Number</th>
<th>Product</th>
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<tbody>
<tr>
<td>VNT-PC</td>
<td>500-650490</td>
<td>Virtual Network Tunnel</td>
</tr>
<tr>
<td>VNT-MP</td>
<td>500-650489</td>
<td>VNT Mounting Plate</td>
</tr>
<tr>
<td>VNT-APP</td>
<td>S54430-A8-A1</td>
<td>Run Time VNT Application</td>
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</tbody>
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**NOTICE** – The information contained in this data-sheet document is intended only as a summary, and is subject to change without notice.

The product(s) described here has/have a specific instruction sheet(s) that cover various technical, limitation and liability information.

Copies of install-type, instruction sheets – as well as the General Product Warning and Limitations document, which also contains important data, are provided with the product, and are available from the Manufacturer.

Data contained in the aforesaid type of documentation should be consulted with a fire-safety professional before specifying or using the product.

Any further questions or assistance concerning particular problems that might arise, relative to the proper functioning of the equipment, please contact the Manufacturer.