



## Network Security Appliance

The V<sup>5</sup> Network Security Appliance™ is the fundamental building block of a modern security solution. This embedded server creates an encrypted, private network on any enterprise infrastructure (LAN, Fiber, RS485, etc.) by communicating to additional Vindicator network devices. The V<sup>5</sup> becomes the central security processor for facility and site access control, intrusion and perimeter detection, CCTV events, and fire and life safety information.

The V<sup>5</sup> processes and routes security-related events to the operator display for information and action. It integrates with many peripheral devices and can be easily extended to support additional devices. With flexible on-board I/O options, a standalone V<sup>5</sup> offers a simple, cost-effective solution with virtually no maintenance – no Windows updates to perform, no worries about virus infections or hard drive crashes.

Until recently, site security has depended on a Windows-based security management solution. The V<sup>5</sup> Network Security Appliance builds a reliable solution that is easier to operate. Monitor multiple locations (both local and remote) via any PC operating system and any type of display.

The V<sup>5</sup> provides a user interface to the system with map-based views of facilities, fast alarm reporting and intuitive icons and control buttons. With a powerful XML interface and plentiful I/O users benefit from greater flexibility integrating with peripherals, sensing technology or products from various manufacturers.

The V<sup>5</sup> raises the bar for security solutions. When it comes to managing and integrating facility access control, intrusion and perimeter detection, CCTV, fire detection, life safety, and building automation, the V<sup>5</sup> Network Security Appliance provides an extremely adaptable enterprise solution for critically important and high-risk sites.

## FEATURES

- **Reliable** - Vindicator products deliver an 11-year mean-time-between-failure, are certified by the DoD and DoE to protect nuclear facilities, and are impervious to hacking and to virus/worm attacks.

- **Flexible** - The modular design of V<sup>5</sup> benefits sites of all sizes and types. The V<sup>5</sup> can handle over 20,000 multistate inputs and monitor over 10,000 discrete alarm points from access control readers, perimeter sensors, or cameras. The system

also supports many languages including French, Spanish, German, Korean, Farsi, and more.

- **Scalable** - V<sup>5</sup> operates across a variety of WAN connections, providing enterprise-wide mission support to multiple command and control centers located anywhere in the world without the vulnerability of centralized servers.

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- **Easy-to-install** - V<sup>5</sup> installs in a wide variety of communications applications and is easily configured to fulfill the most demanding requirements.

- **Secure** - Redundant communication is encrypted for maximum security. Vindicator products are certified for TDEA (Triple Data Encryption Algorithm, also known as Triple DES) communication by the National Institute of Standards and Technology.



# Network Security Appliance SPECIFICATIONS

## Intrusion Detection Capacity (per unit)

- Sensor Inputs: more than 20,000 multi-state inputs
- System has passed the "5-in-2" test (capable of reporting five alarm events in less than two seconds)

## Access Control System Capacity (per unit)

- Multi-drop reader buses: 8
- On-line Cards: 50,000 (expandable)
- I/O Module: six supporting combinations of:
  - Sensor Module: 8 inputs
  - Relay Module: 4 relays
  - Portal Module: 1 reader, 3-4 supervised multi-state inputs, 1 door strike

## Communication Ports

- Serial: 8 RS485, 4 RS232
- LAN: 4, 100BaseT with TCP/IP
- Fiber Optic: 1-4 optional 100FX optical (SM or MM)

## Interfaces/Drivers

- Vindicator VCC Platform
- Logging/reporting printer
- Vindicator Security Network Devices
- CCTV switcher control
- Plasma display control
- SIA CIS Central Station

## Mechanical Specifications

- Dimensions: 11.1"L x 10.5"W x 2.9"H
- Weight: 5 lbs

- Mounted on sheet metal base plate, NEMA enclosed product optional
- EMI/RFI gasketed
- Field Wire Connectors: Removable plug type screw jaw clamp terminal for 4 AWG to 12 AWG solid or stranded wire

## Environmental Requirements

- Operating Temperature: 0°C to +50°C
- Storage Temperature: -25°C to +65°C
- Humidity: 8%-90% non-condensing
- Vibration Operating: 8G peak swept-sine with solid-state storage, 1G peak swept-sine with HDD option
- Shock Operation: 175G for 2 ms half-sine

## Electrical Characteristics

- Operating Voltage: 10-24 VDC, 9 to 16 VAC
- Power: configuration dependent
- Transient and surge protection: 36W max
- Ports 1.2 j 80 us 2400 V 12 A peak
- Input Sensitivity: 0.0 to 5.0 V with 10 bit resolution and 1% accuracy
- Inputs configured for resistive load measurement source of up to 10mA at 10 DC into ohms
- Sensor Self Testing: Automatic, programmed, random, or regular at average intervals (2 minutes to 22 days). Failed tests announced.

## Compatibility/Integration

- CCTV: Many cameras, switchers, video motion detection systems and DVR systems
- Reader Technologies: Many card readers, smart gates or biometrics systems
- Support for ground-based radar, remote weapons
- Sensors: Many interior or exterior sensor systems
- Supports legacy and third-party components from manufacturers such as Honeywell, American Dynamics, Bosch, Pelco, Vicon, and Broadware.

## Certifications

- Certified for nuclear facilities without waiver (USAF), FIPS 46-3, DCID 6/9, SIA, UL-1076/2050/294/864

## Enterprise Connectivity

- Open style architecture (LAN/WAN, ethernet, SM and MM fiber, RS232, RS485), FSK, TCP/IP)

## Integrated Database

- Relational, embedded, fast and reliable ODBC (Access, SQL, Oracle)

## Software Configuration

- Via Ethernet or RS485

## Encryption

- UHS, DES, TDEA (DCID, NIST and TDEA approved)

## ORDERING

### Bundled System

<b>600-33000-01</b>	Intrusion detection system, V <sup>5</sup> , UHS encryption, 1 sensor input module, 1 relay output module, 1 system server terminal package, manuals, power supply
<b>600-33000-02</b>	Intrusion detection system, TDEA encryption version of above
<b>600-33010-01</b>	Access control system, V <sup>5</sup> , UHS encryption, 1 system server terminal package, manuals, power supply
<b>600-33010-02</b>	Access control system, TDEA encryption version of above
<b>600-33500-01</b>	VCC packaged system, VCC Platform, Vindicator Server, V <sup>5</sup> , UHS encryption, manual and serial communication cable
<b>600-33480-01</b>	Access control enrollment station, V <sup>5</sup> , Vindicator Server, 17" LCD, SAW and PC SmartPak software, UHS encryption, Portal Control Module, LaserJet Printer, card reader station, power supply, manual, serial communication cable
<b>600-33480-02</b>	Access control enrollment station, TDEA encryption version of above

### Ind. System Components

<b>548-33300-10</b>	V <sup>5</sup> (requires one of the OS options below), RS 485 port, 4 TCP/IP ports
<b>508-33301-01</b>	Intrusion Detection OS, UHS encryption
<b>508-33301-02</b>	Intrusion Detection OS, TDEA encryption
<b>508-33355-01</b>	Access Control OS, UHS encryption
<b>508-33355-02</b>	Access Control OS, TDEA encryption

### Expansion Options

<b>536-33002-01</b>	Sensor Input Module, 8 ports
<b>536-33003-01</b>	Relay Output Module, 4 ports
<b>536-33004-01</b>	Portal Control Module

### Fiber & Memory Options for V<sup>5</sup>

<b>532-33302-01</b>	Fiber Optic Multi-Mode Port
<b>532-33302-02</b>	Fiber Optic Single-Mode Port
<b>356-33303-01</b>	CompactFlash Memory Card, 128 MB
<b>356-33303-02</b>	CompactFlash Memory Card, 256 MB
<b>356-33303-03</b>	CompactFlash Memory Card, 512 MB
<b>356-33304-01</b>	External Hard Drive Option, 250 GB
<b>Spares</b>	
<b>292-33464-00</b>	12 VDC Wall Plug Power Supply
<b>908-33461-00</b>	Installation, Operation and Maintenance Manual
<b>536-33001-01</b>	V <sup>5</sup> Main CPU Board, CPU-5 PCB Assembly with 4 RJ-45 Ports
<b>536-33005-01</b>	Communication I/O Module
<b>544-33472-01</b>	Serial Communication H/A, serial comm cable from V <sup>5</sup> to display device
<b>532-33279-00</b>	System Server Terminal, with keyboard and mouse, no monitor, serial cable, PC SmartPak
<b>532-33279-01</b>	System Server Terminal, with keyboard and mouse, 15" CRT monitor, serial cable, PC SmartPak
<b>532-33279-02</b>	System Server Terminal, with keyboard and mouse, 17" CRT, serial cable, PC SmartPak
<b>532-33279-03</b>	System Server Terminal, with keyboard and mouse, 15" LCD, serial cable, PC SmartPak
<b>532-33279-04</b>	System Server Terminal, with keyboard and mouse, 17" LCD, serial cable, PC SmartPak

For more information: [www.honeywellvindicator.com](http://www.honeywellvindicator.com)

## Honeywell Security

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