Vi3003W

MaxiiNet™ IP67 Weatherproof L2 Drop and Insert 1G 60W PoE++ 3-Port Network Switch

Features

- IP67 Weatherproof protection to dust and up to 3 feet (1m) of water
- IEC60068-252 certified for operation in salt laden environments
- Enables multiple camera connections on a single cable run
- Each unit extends IP video and PoE for an extra 328 ft. (100m)
- Can be cascaded to transmit IP video and PoE up to 3,000 ft (909m)
- Powered by a single source PoE, no local power required
- Able to power IP PTZ domes
- Complies with UPoE
- Able to maintain up to 60W PoE at any point along cable run
- Automatically senses data transmission rate up to 1000Mbps (1Gbps)
- Provides third port for drop and insert along a single cable run
- Provides full IEEE network layer 2 switching to avoid transmission conflicts
- No network configuration is required
- Provides access to up to 9 IP addresses eliminating the need for network switches in small systems
- Eliminates the need for multiple home-run cables runs perimeter and parking lot applications
- Hardened with wide range operating temperature of -40°C to +75°C

74W UPoE	4K UHD	PTP™	011→011 VZPL™	JFC	MPC™	LPC™	HRD™	60W PoE++

Applications

- For data PoE transmission of PTZ domes and transmitting multiple cameras on a single camera run
- Parking lots, office building and fence perimeter applications, continuous cable run for multiple cameras reducing the number of home-run cables
- Adding new cameras to an existing installed network switche without having to purchase new switches

Vigitron's Vi3003W is the perfect solution of any outdoor or harsh environment installations. The Vi3003W is a 3-port Layer 2 Ethernet and PoE switch providing drop and insert capability for connecting several IP devices along a single cable run. The Vi3003W provides a cost effective method for increasing network distances beyond the standard Ethernet limit of 328 feet (100m). Multiple units can be cascaded to provide up to nine IP cameras to be connected to a single network switch port over distances of up to 3,000 feet (909m). Its IP67 housing ables it to operate under dust and water up to 3 feet. Drop and insert installation reduces installation cost. Complies with UPoE.

For small systems, the Vi3003W's Layer 2 network capability can eliminate the need for network switches, saving costs and rack space. It also can significantly decrease network switch costs by increasing the capacity of a 24-port switch to handle up to 216 cameras and an 8-port switch up to 72 cameras. As a mini network switch, the Vi3003W avoids the potentials for transmission collisions by complying with IEEE standards. Its ability to automatically sense the datarate up to 1,000Mbps (1Gbps) also makes it the perfect solution for cost effectively extending network to network communications or between network switches requiring high speeds transmission. The combination of IP67 construction and hardened -40°C to +75°C make the Vi3003W the perfect solution for any outdoor application.

The Vi3003W can be powered by PoE eliminating the need for external power or a local power supply. Additional power up to 90W can be added at any point along the cable run where power outlets are available to provide the ability to power PoE++ IP cameras and other Vi3003Ws.

The Smart Choice for Transmission Solutions   www.vigitron.com

Technical Specification*

Electrical

PoE Rating	Port 1 (PoE In): up to 74W Compliant to UPoE Port 2 (PoE Out): up to 74W Compliant to UPoE Port 3 (Tap): 802.3af (15.4W), 802.3at (30W)
Network Connection	(3) RJ-45 IEC 60603-7
Wiring Support	Cat 5/5e/6
Power Consumption	3W
Supported Distance	328 ft. (100m) per link
Data Rate	All ports: 10/100/1000Base-TX, Auto Configuring
Data Interfaces and Compliances	RFC 768 UDP, RFC 2068 HTTP RFC 793 TCP, RFC 791 IP RFC 1783 TFTP, RFC 894 IP over Ethernet RFC 2544 TCP/IP Packet Transmission IEEE802.3af, IEEE802.3at
IEEE Compliances	802.3ab, 802.3z, 802.3af, 802.3at, 802.1p, 802.1Q, 802.1D, 802.1s, 802.3u, 802.3x, 802.3w
Service Compliance	IPv4 Type of Service (TOS) and Differentiated Services (Diff-Serv), IPv6 Traffic Class
VLAN Support	4,096 Addresses
Jumbo Frame	Up to 10,000 bytes
Weatherproof Compliance	IP67

Mechanical

Dimensions	With connectors: 1.82x2.75x8.38 in., 4.62x6.99x21.29 cm (HxWxL) With no connectors 1.82x2.75x5.84 in., 4.62x6.99x14.84 cm (HxWxL)
Weight	1.27lb, 576g
Material	ABS Plastic

Environmental

Humidity	Total Moisture Protection Complaint to IP67
Temperature	Operating: -40°C to +75°C per NEMA-TS2 testing** Storage: -40°C to +85°C
Dust	Total Dust Protection Complaint to IP67
Environment	IEC 60068-252 Salt Laden

Regulatory

Safety	CE
Environmental	RoHS, WEEE

Accessories (Optional)

Vi1120 Desktop power supply 56VDC @120W
    for 60W PoE operation

Vi0017 Desktop power supply, 802.3at 40W
    for 30W PoE operation

Vi0012 Wall-mount power supply 12VDC @12W
    non-PoE operation

Vi0025 for connecting non-PoE devices to the 60W PoE Out port

*Specifications subject to change without notice.
**Vigitron "W" are designed as self contained to comply with specific environmental standard. Operating in conditions other than free air with proper ventilation will affect performance and may void warranty.

PoE vs. Distance

PoE	Distance	# of Vi3003W
60W	428 ft. (130m)	1
30W	800 ft. (242m)	2
15.96W	1,200 ft. (364m)	3
12.95W	1,900 ft. (580m)	5

Ordering Information

PART No.	Description
Vi3003W	IP67 Weatherproof L2 Drop and Insert 1G 60W PoE++ 3-Port Network Switch
Vi1120	Desktop power supply 56VDC @120W
Vi0017	Desktop power supply 48VDC @40W
Vi0012	Wall-mount power supply 12VDC @12W
Vi0025	PoE blocker for non-PoE devices
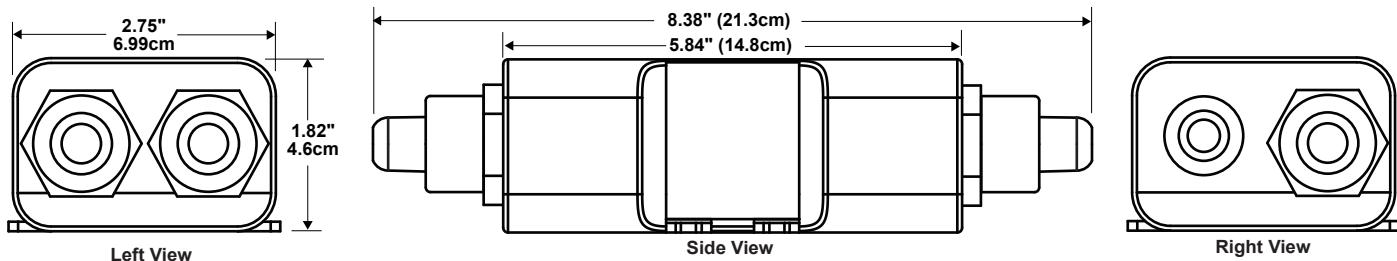
2.75"
6.99cm
1.82"
4.6cm
Left View

8.38" (21.3cm)
**5.84" (14.8cm)**
Side View

Right View

Application Diagrams

Vi3003W allows for the transmission of two cameras over a single camera run or adding a new camera close to an existing camera.
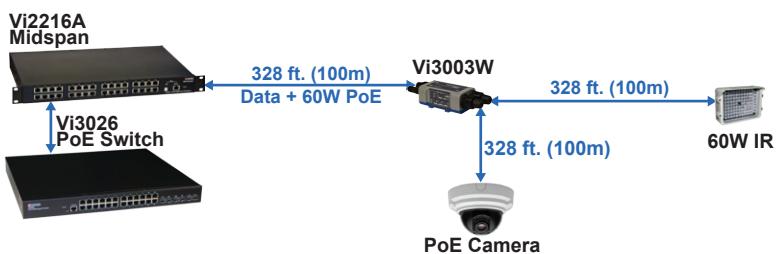
Vi3003W allows for the transmission of data for a camera and an IR illuminator over a single camera run. The PoE Midspan provides power to the Vi3003W ,camera and IR illuminator.
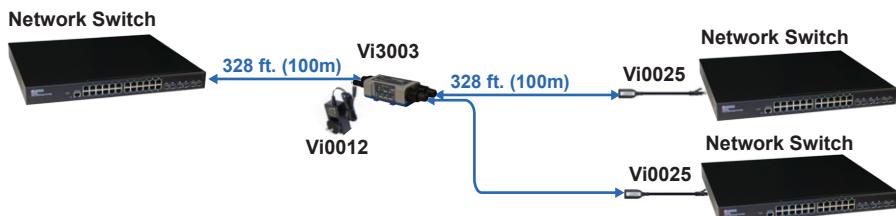
Vi3003W enables extension of 1G connection between networks.
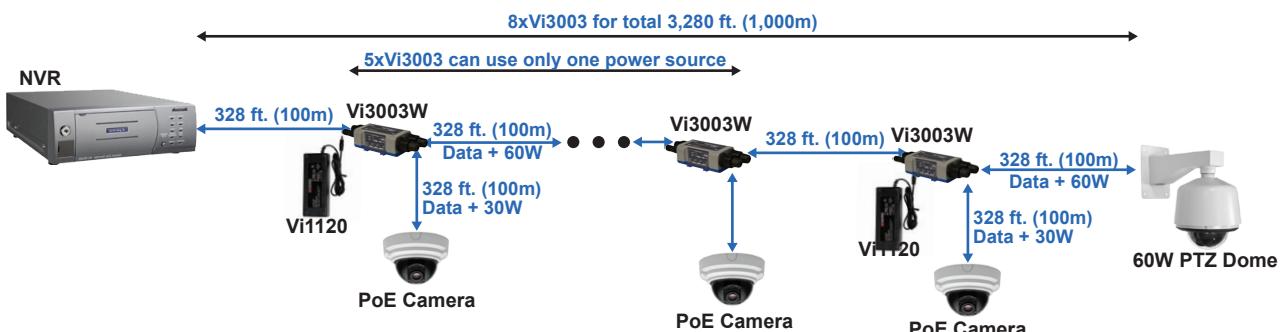
A total of 9 IP addresses can be accessed on a single cable run, eliminating the need for network switches.