

Vi3103

MaxiiNet™ L2 Drop and Insert 30W PoE+ 3-Port Switch

Features

- Provides an easy way to add a second IP camera without requiring new home-run cable
- Provides for 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)
- Can be powered by PoE or a local power source
- Automatically senses input data rate
- 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 required
- Provides access up to 9 IP addresses eliminating the need for network switches in small systems
- Eliminates the need for multiple cable runs for perimeter and parking lot applications
- Hardened with wide range operating temperature of -20°C to +70°C
- Metal housing protective construction



The Vi3103 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 Vi3103 provides a cost effective method for increasing 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).

For small systems the Vi3103'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 port capacity of the switch. As a mini network switch, the Vi3103 avoids the potentials for transmission collisions by complying with IEEE standards. It is an easy and quick solution to add an extra camera without requiring to have a new home-run cable.

The Vi3103 can be powered by PoE or a local power source. Additional power up to 60W can be added at any point along the cable run where power outlets are available and provide the ability to power IP cameras up to 30W.

Technical Specification*

Electrical

PoE Rating	Port 1 (PoE In): up to 30W Port 2 & 3 (PoE Out): up to 30W
Network Connection	(3) RJ-45 IEC 60603-7
Bandwidth	10/100Mbps
Wiring Support	Cat 5/5e/6
Power Consumption	1.5W
Supported Distance	328ft (100m) per link
Status LEDs	Port 1: Vi3103 Power (Green), Link/Activity (Orange) Port 2: PoE (Green), Link/Activity (Orange) Port 3: PoE (Green), Link/Activity (Orange)
Data Rate	Auto Configuring, Ports 1, 2 & 3: 10/100Base-TX
Data Interfaces and Complies	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) & Differentiated Services (Diff-Serv) IPv6 Traffic Class

Mechanical

Dimensions	0.97x1.76x4.12 in., 2.5x4.5x10.5 cm (HxWxL)
Weight	0.26 lb, 117 g
Material	Extruded Aluminum

Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: -20°C to +70°C per NEMA-TS2 testing Storage: -40°C to +85°C

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

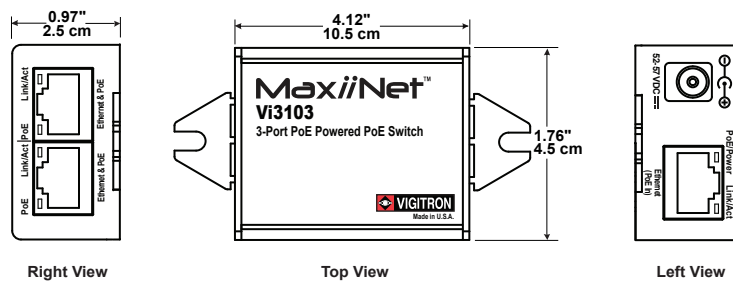
*Specifications subject to change without notice.

Ordering Information

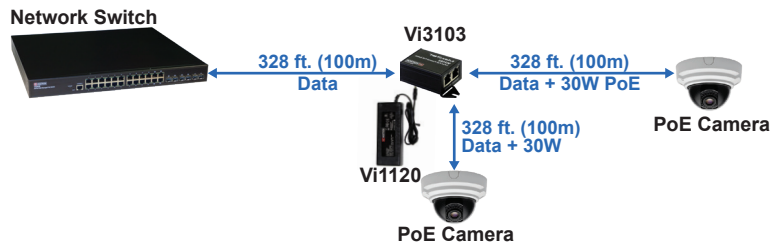
PART No.	Description
Vi3103	Drop and Insert 10/100Mbps 30W PoE+ 3-Port Switch
Vi1120	Desktop power supply 56VDC @120W
Vi0017	Desktop power supply 48VDC @40W
Vi0012	Wall-mount power supply 12VDC @12W

PoE vs. Distance

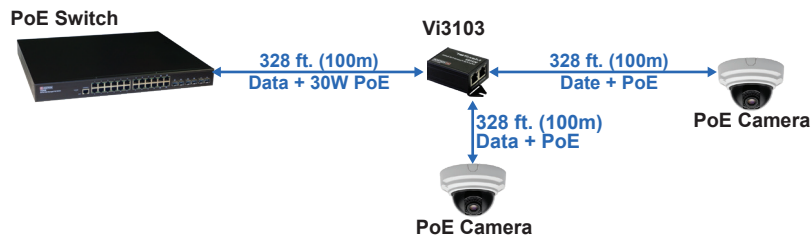
PoE	Distance	# of Vi3103
24W	650 ft. (198m)	1
20W	950 ft. (290m)	2
16W	1,200 ft. (365m)	3
8W	1,400 ft. (427m)	4



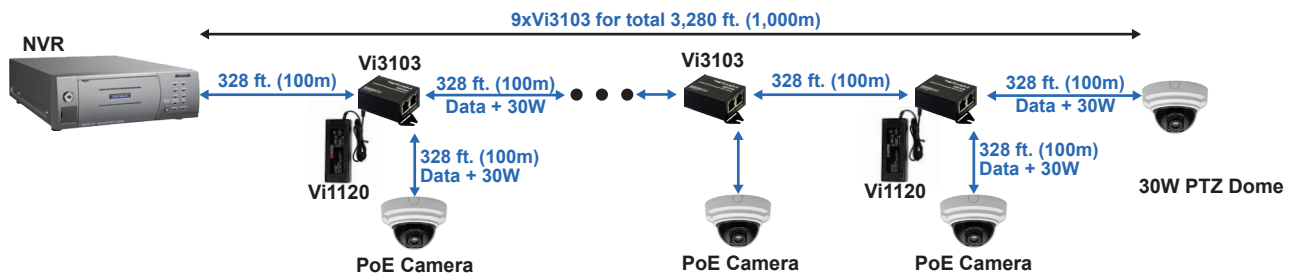
Application Diagrams



Vi3103 allows for the transmission of two cameras over a single camera run or adding a new camera close to an existing camera.



Vi3103 allows for the transmission of two cameras over a single camera run or adding a new camera close to an existing camera. The PoE Midspan provides power to the Vi3103 and both cameras



A total of 9 IP addresses can be accessed on a single cable run eliminating the need for network switches.