

# Vi3405

## MaxiiNet™ 5-port PoE Extended Coax PoE Switch



### Features

- 5-port extended distance Ethernet over coax Layer 2 PoE switch
- 4 extended Coax ports with PoE and IP video at extend distances up to 1800 ft. (548m)
- Provides PoE power at the camera site without the need for local power source or power supply at extended distances when used with Vi2401A or Vi2400A
- Provides up to 37W PoE per port
- Provides MSA compliant SFP fiber output port for integration to existing fiber infrastructures and extreme long distance up to 80Km
- Automatic PoE port priority allocation and power management
- Provides over current shut down protection
- Certified (MPC™) high data rate for virtual loss free transmission of cameras
- Type tested to RFC 2544 TCP/IP network bandwidth packet transmission standards
- Type tested for -30°C to +75°C operating temperature range
- Complies with major IEEE standards and RFC network protocols for UTP, TCP/IP, HTTP/HTTPS
- Provides full Layer 2 network switch functionality

### Applications

- Upgrading analog CCTV installations into digital systems
- Expanding networks in industrial environment
- CCTV system for casinos, airports, school campuses, and many more

Vigatron's MaxiiNet™ Vi3405 fixed managed five port extended Coax PoE switch brings new performance standards to the growing need for high speed transmission of high speed Ethernet. It eliminates the need for local power for the cameras connected to its 4 ports at extended distances. The Vi3405 provides a 100Base-T and an SFP socket for fiber optic uplink.

The Vi3405 is powered locally by the Vi1120 to supply 802.3at to each port, providing up to 37W (802.3at) to each port. The Vi3405 can operate over Coax cables at extended distances up to 1,800 feet (548m) when combined with the Vi2401A or Vi2400A.

With an operating temperature range of -30°C to 75°C, the Vi3405 is the perfect solution for data and power transmission for warehouses, parking lots, campuses, casinos, and many more. The Vi3405 is MegaPixel Certified (MPC™), type tested to network packet performance standards, and major manufacturer compatibility tested to assure you error free, quality operations. Fixed managed L2 functions include 802.1p Qos, support of 2k MAC addressing, learning, aging, and a non-blocking switch fabric.

Installation cost savings, proven performance, and major camera manufacturer compatibility all go into making Vigatron's MaxiiNet™ Vi3405 an ideal solution for standard distance data and power transmission.

# Technical Specification\*

## Electrical

Ethernet Interface	Standard 10/100BaseT
Uplink	UTP: 100 Ohm +/- 20%, up to 328 ft. (100m) Fiber Optics: will depend on the type SFP and Optical cable
Power Source	External Power Supply: 57VDC @ up to 120W
Status LEDs	Power Ethernet: Traffic, Link PoE Active
Connectors	Fiber: MSA compliant SFP socket Ethernet Interface: 1 x RJ45 Ethernet Extended Interface: 4 X BNC Power: Circular power connector
RFC	2544 TCP/IP Packet Transmission
RFC	768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet
PoE Compatibility	IEEE 802.3af, IEEE 802.3at
Data Interfaces & 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, 8IEEE02.3at
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

## Regulatory

Safety	CE
Environmental	RoHS, WEEE

## Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: -30°C to +75°C Storage: -40°C to +85°C

## Mechanical

Dimensions	1.2x3.75x5.1 in., 3.0x9.5x13 cm (HxWxL)
Weight	0.76 lb (344 g)
Housing	Aluminum

## Optional Accessories

Vi1120: 57VDC, 120W Power Supply  
Vi0017: 48VDC, 40W Power Supply  
Vi0012: 12VDC, 12W Power Supply for non-PoE Applications

\*Specifications subject to change without notice.

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## Ordering Information

### Part No. Description

<b>Vi3405</b>	<b>4-Port PoE Layer 2 Network Switch</b>
<b>Vi2400A</b>	<b>1-Port Mini Coax Ethernet Extender</b>
<b>Vi2401A</b>	<b>1-Port Coax Ethernet Extender</b>
<b>Vi1120</b>	<b>120W 57V Power Supply</b>
<b>Vi0017</b>	<b>40W 48V DC Power Supply</b>
<b>Vi0012</b>	<b>12W 12V DC Power Supply for non-PoE Applications</b>

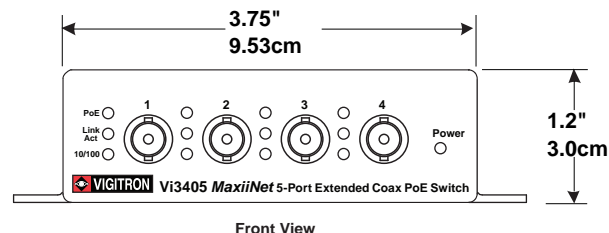
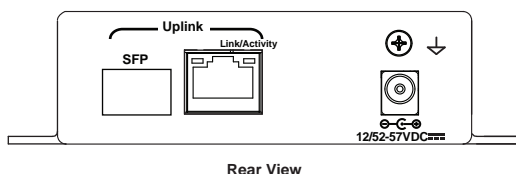
## Data and PoE Distance <sup>1</sup>

Data Rate	Distance <sup>2</sup> (without POE)	Distance <sup>3</sup> (with POE)
10BaseT	5,000 ft. (1,515m)	3,000 ft. (914m)
100BaseT	1,800 ft. (546m)	1,800 ft. (546m)

1. Distance figures are obtained using in house testing mirroring installations. Factors such as cabling, connections, use of power and environmental conditions may affect actual distances and should be taken into consideration.

2. Distance figures are based on RG59U Coax cable and external power supply for extender and camera.

3. Specifications reflect operating using Pass Through PoE (PTP™) providing power for both transceivers and camera from a single source. Distances may increase if transceivers are locally powered.

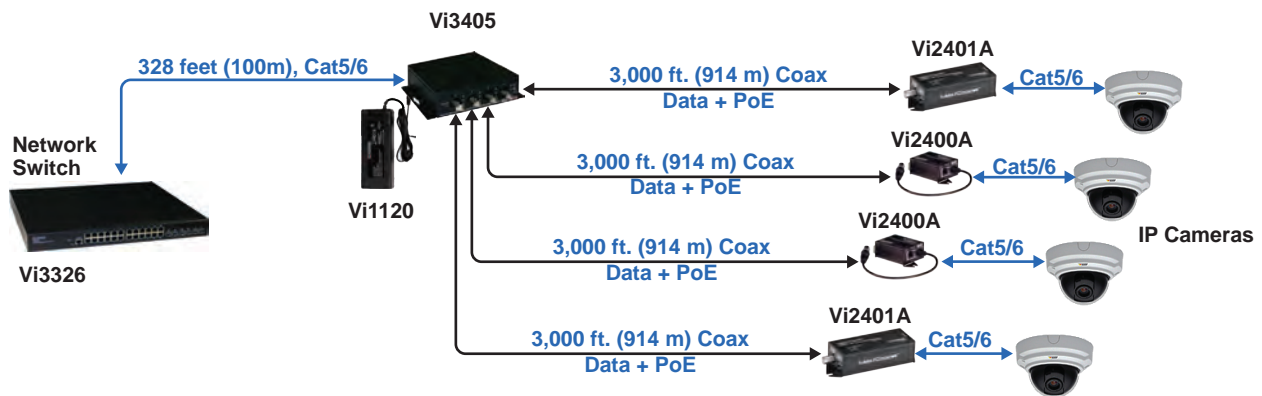


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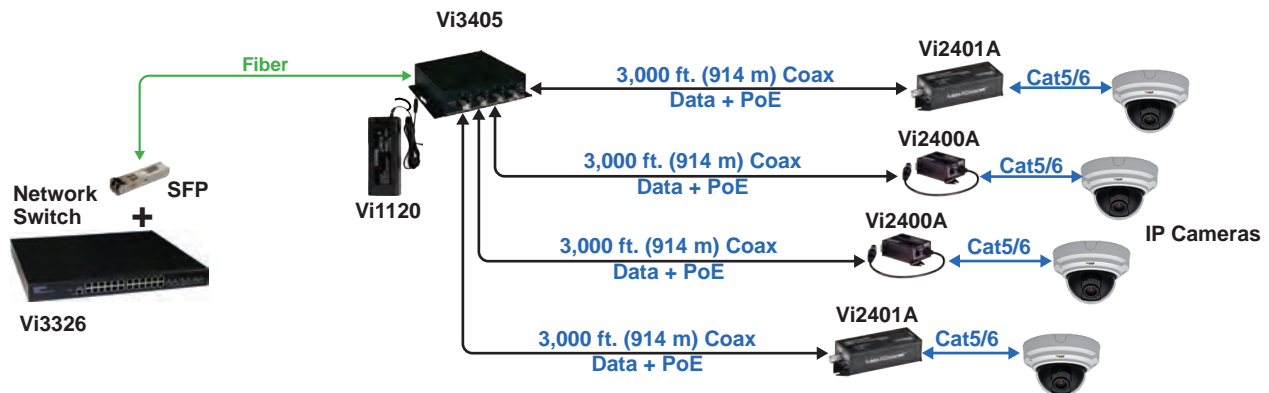
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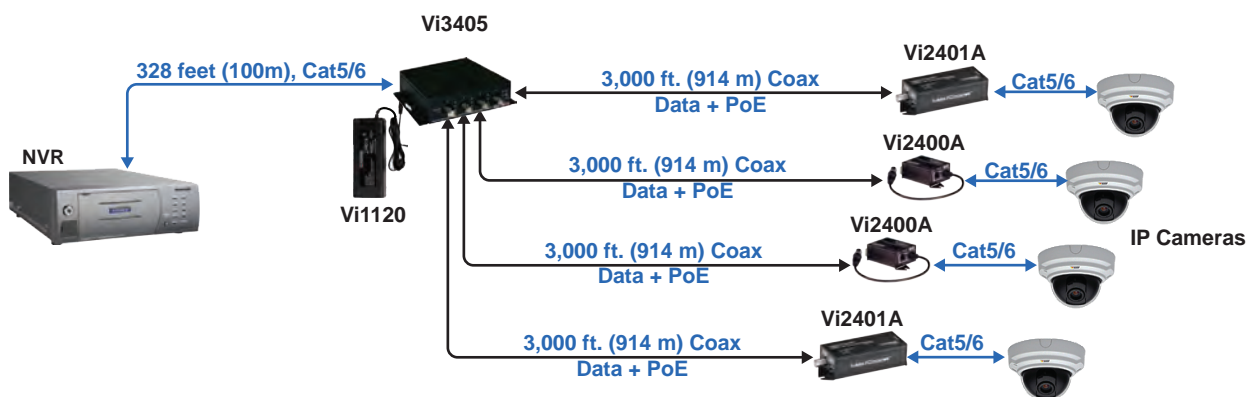
# Application Diagrams



*Vi3405 provides a simple method to convert existing analog systems to IP Video.*



*Up/down links can use either the 100Base-T port or Fiber port for distances up to 80Km.*



*For smaller systems direct connection from Vi3405 to NVR or Computer running VMS can eliminate the need for an extra network switch when converting from analog to IP video.*