Vi3405

MaxiiNet™

5-Port PoE Coax Switch

Features

- 5-port Layer 2 Coax PoE switch
- 4 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 36W 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

Description

Vigitron'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 IEEE 802.3at PoE up to 36W to each port. The Vi3405 can operate over Coax cables at extended distances up to 1,800 feet (548m) when combined with Vigitron's 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 Vigitron's MaxiiNet™ Vi3405 an ideal solution for standard distance data and power transmission.

†2.5Gbps limited to Fiber ports only

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
Data Ports	Coax: 75 Ohm, 5,000 feet (1,515 m) at 10BaseT 1,800 feet (549 m) at 100BaseT
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 Extended Ethernet Interface: 4 X BNC Power: Circular power connector
Data Interface and	2544 TCP/IP Packet Transmission
Compliances	768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet
PoE Compatibility	IEEE 802.3af, IEEE 802.3at up to 36W
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
Vi10120: 57VDC, 120W Power Supply
Vi0017: 48VDC, 40W Power Supply
Vi0012: 12VDC, 12W Power Supply for non-PoE Applications

*Specifications subject to change without notice.

Ordering Information

Part No.	Description
Vi3405	4-Port PoE Layer 2 Network Switch

Related Products

Part No.	Description
Vi2400A	1-Port Mini Coax Ethernet Extender
Vi2401A	1-Port Coax Ethernet Extender
Vi2400WP	Single port IP67 Coax Ethernet Extender
Vi0017	40W 48V DC Power Supply
Vi0012	12W 12V DC Power Supply for non-PoE Applications

Data and PoE Distance

Data Rate	Distance [1] (without POE)	Distance [2] (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.
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.

CE RoHS

VIGITRON

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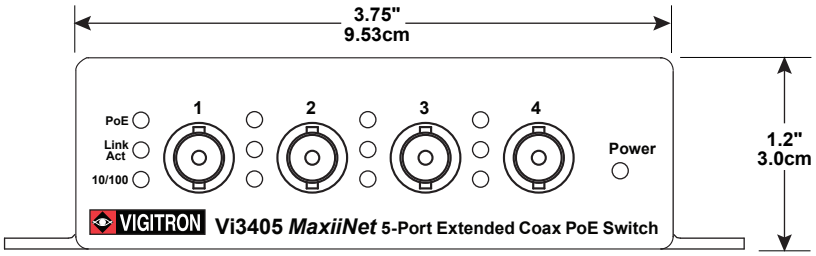
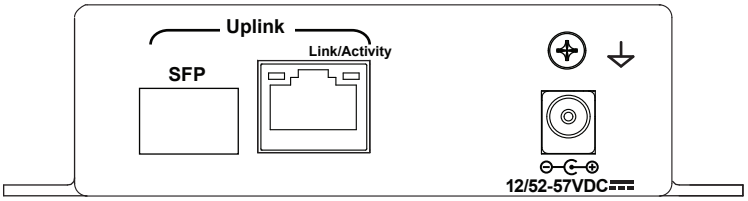
Mechanical Drawings



Front View



Rear View

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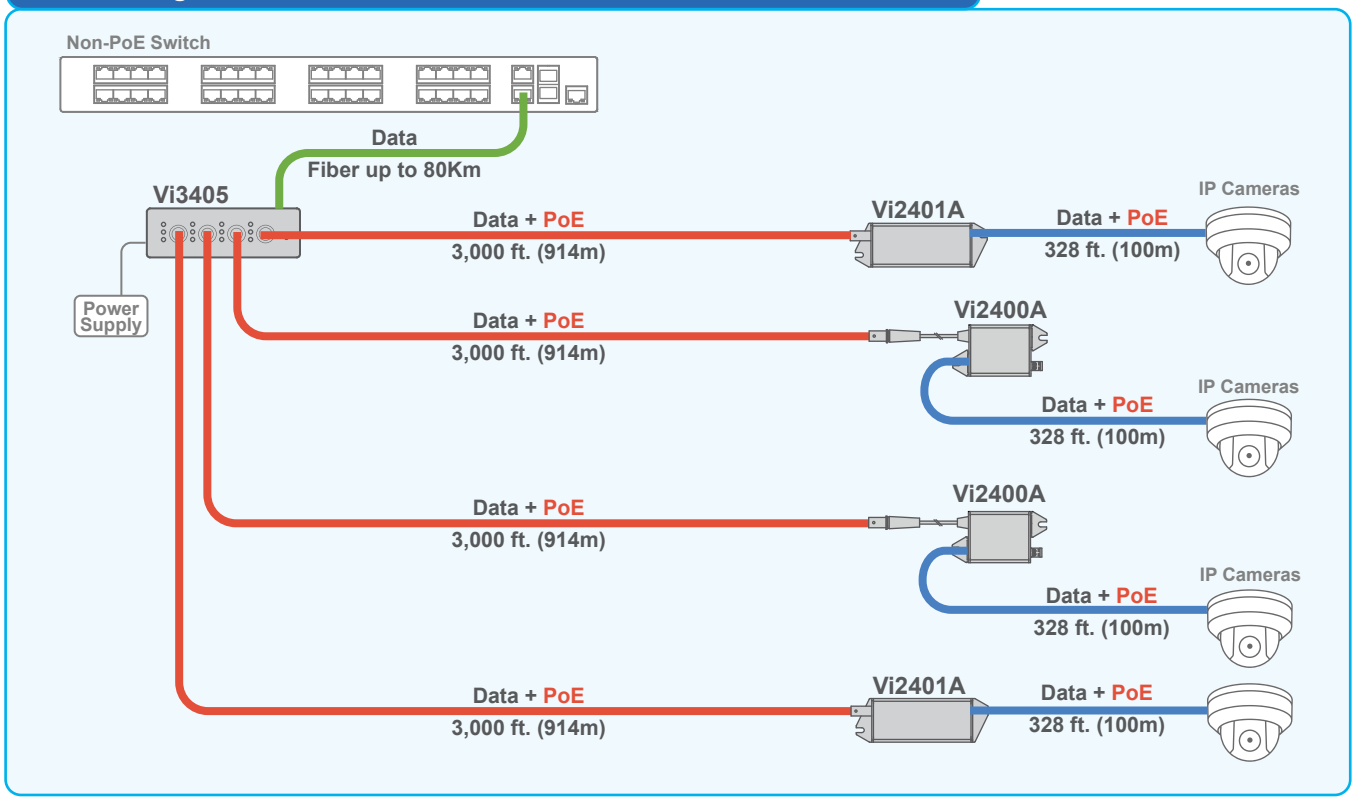
Application Diagrams



The Vi3405 can be used to connect remote cameras over a combination of Coax and Fiber cables.

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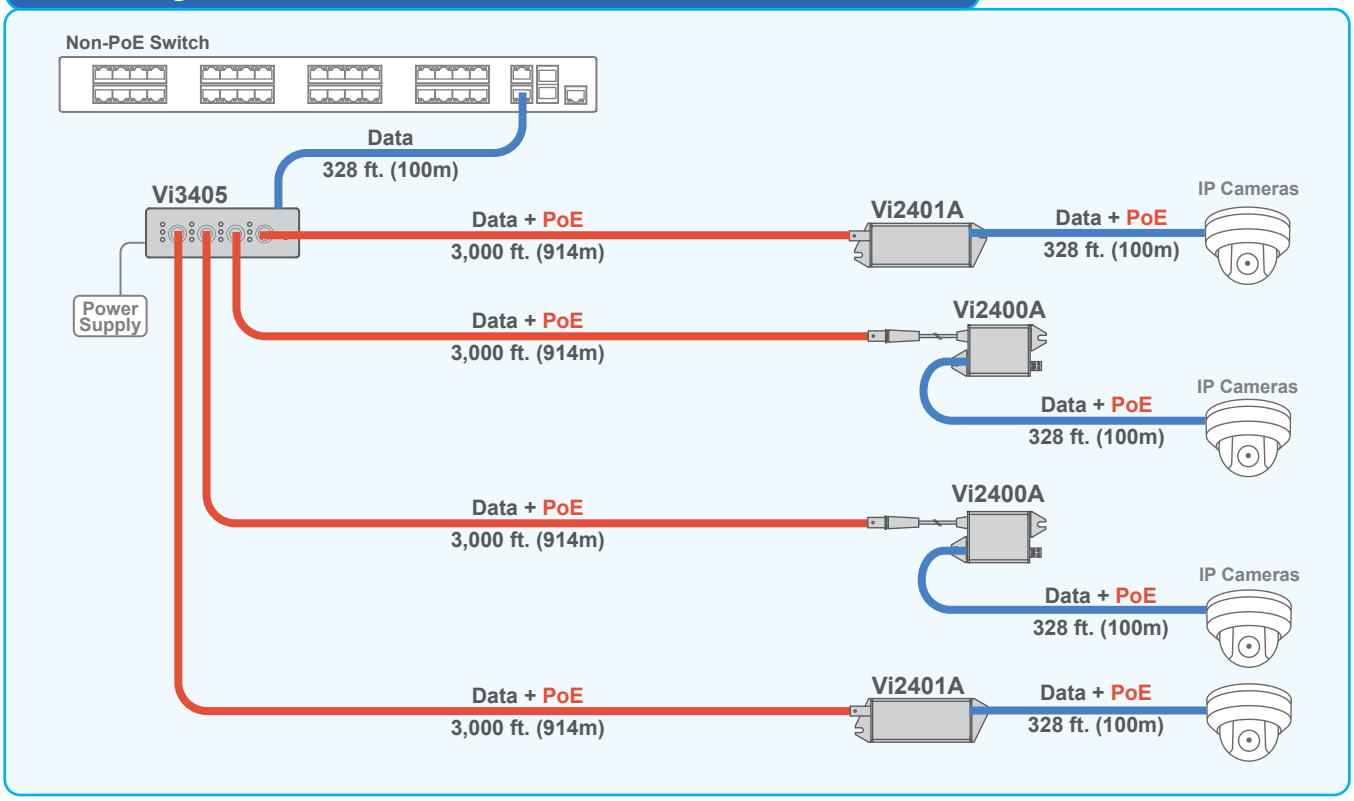

The Vi3405 can be used to connect remote cameras over a combination of Coax and UTP cables.

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