

# Vi2404A/Vi2408A/Vi2416A

MaxiiCopper™ 4, 8, and 16-port High-Speed Ethernet Extenders over Coax

## Features

- Extends Ethernet 10BaseT up to 5,000 ft (1,515 m) and 100BaseT up to 1,800 ft (546m) for data
- Extends Ethernet 10BaseT up to 3,000 ft (914 m) and 100BaseT up to 1,800 ft (546m) when using Pass Through PoE (PTP™)
- Saves additional equipment costs and reduces installation time
- Pass Through PoE (PTP™) compatible with 802.3af and 802.3at PoE
- MegaPixel Certified (MPC™) high data rate, ideal for high bandwidth requirements of Mega-pixel cameras, and cameras requiring Jumbo Frame transmission
- Symmetric Bandwidth(SBW™) provides consistent upload and download with Virtual Zero Packet Loss (VZPL™) over total specified distance
- Type tested to RFC-2544 TCP/IP network bandwidth packet transmission standards
- Built in transceiver cable connectivity tester
- Type tested for -40°C to +75°C temperature range under NEMA-TS2 testing standards
- Data rate is automatically set for maximum bandwidth utilization
- Complies to major IEEE standards and RFC protocols for UDP, TCP/IP, HTTP/HTTPS



## Applications

- Upgrading analog CCTV installations into digital systems
- Extending networks in industrial environment
- CCTV system for casinos, airports, school campuses

Vigtron's MaxiiCopper™ Vi2400A Ethernet extender series brings new performance standards to the growing need for high speed transmission full bandwidth Ethernet and power over extended distances. Its unique Symmetric Bandwidth (SBW™) assures full bandwidth transmission is maintained over the entire operational distance for both uploads and downloads with Virtual Zero Packet Loss (VZPL™). Bandwidth assurance also provides the ability to transmit multiple cameras on single cables runs. The Vi2408A and Vi2416A are offered in EIA 19" 1U high rack for easy installation.

Pass Through PoE (PTP™) eliminates the need for additional cost for remote site power while providing power for both transmitter and receiver. Type tested under NEMA-TS2 environmental operation standards between -40°C to +75°C, the Vi2400A series is the perfect solution for remote signal and power transmission for warehouse, parking lot, campus and casino applications. Best of all, the Vi2400A series are MegaPixel Certified (MPC™), type tested to network packet performance standards, and major camera brand compatible to assure you error free, quality operations. The product series is available in single, four, eight, and sixteen channel configuration to meet every system application requirement.

Installation cost savings, proven performance, and major camera brand compatibility all go into making the Vigtron's MaxiiCopper™ Vi2400A series your best choice for extended distance Vi IP data and power transmission.



The Smart Choice for Transmission Solutions

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# Technical Specification

## Electrical

Ethernet Interface	Standard 10/100BaseT
Ethernet Rate	Auto select 10/100 Mb/s Full speed / full duplex at maximum rated distance
Coax	75 Ohm, 5,000 feet (1,515 m) at 10BaseT
Power Consumption*	Vi2404A: 12VDC@ 1.0A (Max.) Vi2408A: 12VDC@ 1.2 A (Max.) Vi2416A: 12VDC@ 2.5 A (Max.)
Status LEDs	Power On Standard Ethernet: Traffic, Link Extended Ethernet: Traffic, 10/100BaseT
Connectors	Ethernet Interface: RJ-45 Connectors Extended Interface: Female BNCs Power: Pluggable Terminal Block
RFC	2544 TCP/IP Packet Transmission
PoE Compatibility	IEEE 802.3af, IEEE 802.3at
RFC	768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet
Jumbo Frame Support	Yes

## Regulatory

Safety	CE
Environmental	RoHS, WEEE

## Environmental

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

## Mechanical

Dimensions	Vi2404A: 1.15x3.6x3.3 in., 4.2x9.2x8.4 cm (HxWxL) Vi2408A/Vi2416A: 1.75x3.25x17 in., 4.4x8.25x43 cm (HxWxL)
Weight	Vi2404A: 0.584 lb (265 g), Vi2408A: 1.8 lb (0.82 Kg), Vi2416A: 3.25 lb (1.5 Kg)
Material	Aluminum

## Accessories

- 12 VDC wall-mount power supply (optional)
- Rack mount brackets

\*External power supply required

## Ordering Information

Part No.	Description
Vi2401A	Single port Coax Ethernet Extender
Vi2404A	4-port Coax Ethernet Extender
Vi2408A	8-port Coax Ethernet Extender, 19", 1U
Vi2416A	16-port Coax Ethernet Extender, 19", 1U
Vi0014	12VDC, 3A Wall-mount Power Supply

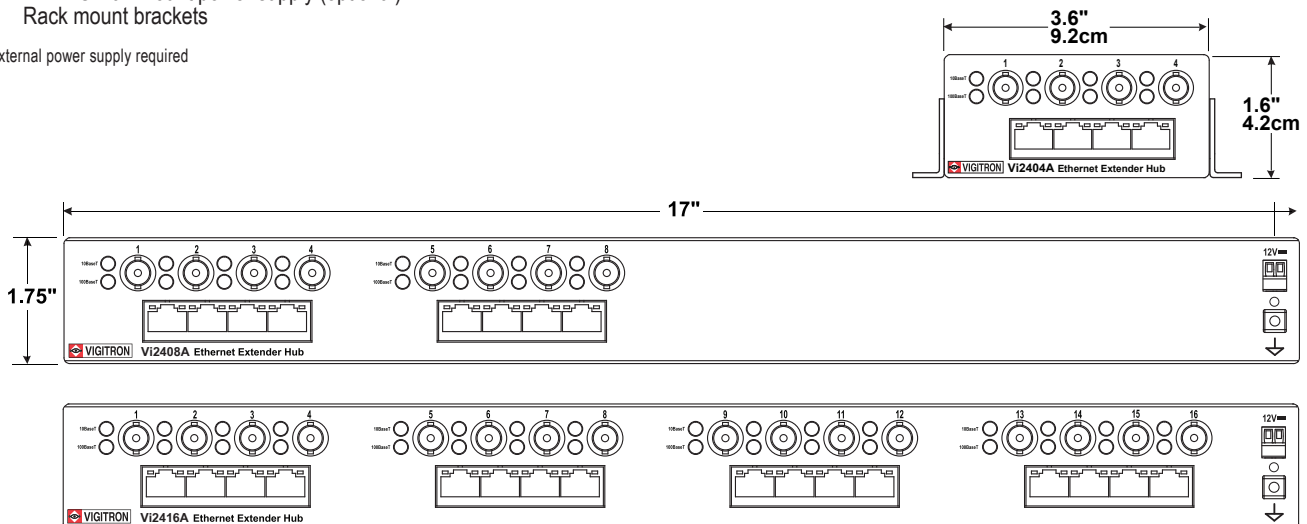
## System Configuration



## Data and PoE Distance

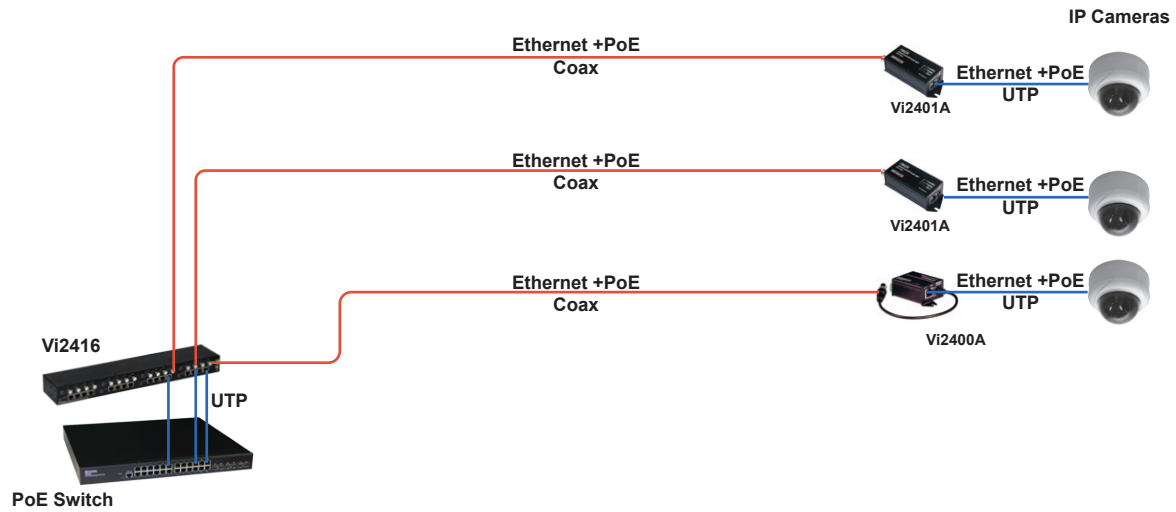
Data Rate	Distance <sup>3</sup> (without POE)	Distance <sup>4</sup> (with POE)
10BaseT	5,000 ft. (1,515m)	3,000 ft. (914m)
100BaseT	1,800 ft. (546m)	1,800 ft. (546m)

- Specifications subject to change without notice.
- 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.
- 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.
- System can be powered for 802.3af using PTP™ reference used is Class 2.



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# Application Diagrams



Note:  
Single pair wire application designs need to be confirmed by Vigitron tech support.



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