Vi2400A Mini

Mini MaxiiCopper™ High-Speed Ethernet Extender over Coax

Features

- Converts Ethernet UTP to transmit network data and PoE over standard coax cable
- Compat design, fits easily inside weatherproof and plenum rated enclosures
- Extends Ethernet beyond 328 feet (100 m) limitation up to 5,000 feet (1,515 m) over Coaxial cables
- Saves additional equipment costs and reduces installation time
- MegaPixel Certified (MPC™) High data rate, ideal for high bandwidth requirements of Mega-pixel cameras, multiple IP cameras systems and cameras requiring Jumbo Frame transmission
- Pass Through PoE (PTP™) compatibility with 802.3af and 802.3at Power over Ethernet reduces installation costs while maintaining camera safeguards
- 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
- Removable wings and BNC pigtail provides easy mounting
- Complies to major IEEE standards and RFC network protocols for UDP, TCP/IP, HTTP/HTTPS
- USA designed and manufactured
- Limited Life Time Warranty.

4K UHD   **SBW™**   **VZPL™**   **PTP™**   **MPC™**   **HRD™**   **LPC™**

Applications

- Retrofit analog CCTV installations into Digital systems.
- Extending Networks in industrial environment.
- CCTV System for Casinos, Airports, School Campuses

Vigitron's Mini MaxiiCopper™ Vi2400A Ethernet over Coax Network extender brings new performance standards to the growing need for high speed transmission of full bandwidth Ethernet and PoE over extended distances of coaxial cables. The compact mini extender is designed to easily fit in standard 4 x 4 and J-Boxes, providing weatherproofing and compliance with fire and other environmental requirements. 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 provides the ability to transmit multiple cameras on single camera runs with no information loss.

Pass Through PoE (PTP™) eliminates the need for additional remote site power while allowing a single PoE source, such as a PoE network switch, to provide power to both transceivers and the camera. This feature eliminates the need for local and remote site power supplies. Type tested under NEMA-TS2 environmental standards for extended temperature operations between -40C° to +75C°, the Vi2400A is the perfect solution for extended distance data and power transmission for warehouses, parking lots, campuses, casinos, and many more. MaxiiCopper's™ Vi2400A is low power and easily fits inside most cameras housing and junction boxes. Best of all, the Vi2400A is MegaPixel Certified (MPC™), type tested to network packet performance standards, and major manufacturer compatibility tested to assure you error free and reliable operations.

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

CE   RoHS

VIGITRON   **The Smart Choice for Transmission Solutions**   www.vigitron.com

DSVi2400A_0717

Technical Specification

Electrical

Ethernet Interface	Standard 10/100BaseT
Data 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 1,800 feet (546 m) at 100BaseT
Power Consumption	12 VDC, 1.8 W w/POE af/at, 1.5 W w/external power supply
Status LEDs	Power On Standard Ethernet: Traffic, Link Extended Ethernet: Traffic, 10/100BaseT
Connectors	Ethernet Interface: RJ-45 Connector Extended Interface: Female BNC Power: 2-pin 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

FCC	Part 15, Subpart , Class B 2010
Emissions	EN 5502:2006+A1:2007, EN 61000-3-2:2006+A1:2009+A2:2009 EN 61000-3-3:2008, EN 55024:1998+A1:2001+A2:2003
Safety	CE
Environmental	RoHS

Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: -40°C to +75°C per NEMA-TS2 testing Storage: -40°C to +85°C

Mechanical

Dimensions	0.97x1.75x2 in., 2.5x4.4x5 cm (HxWxL), 11" Coax pigtail
Weight	0.19 lb, 87g
Material	Extruded Aluminum

Accessories
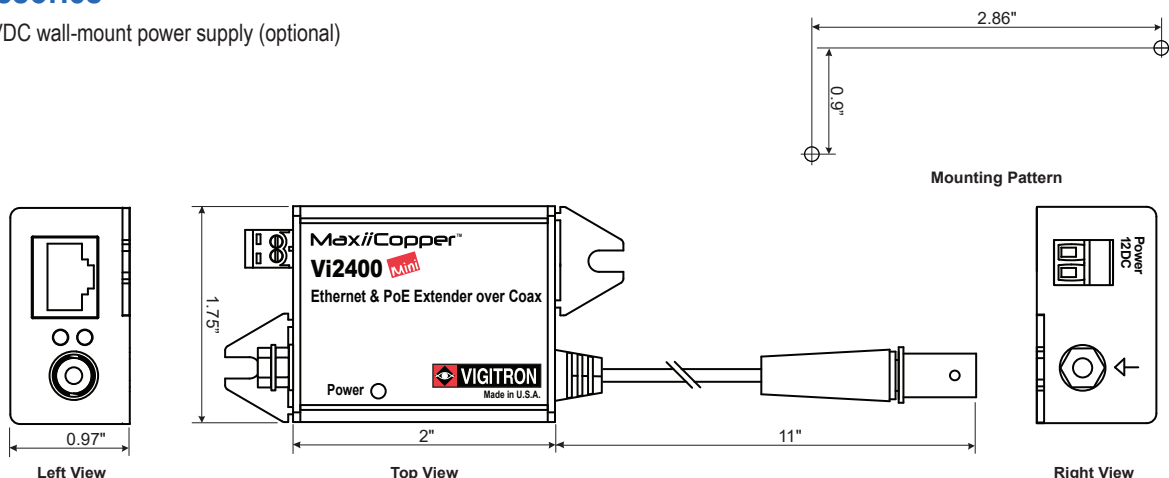
12 VDC wall-mount power supply (optional)

Ordering Information

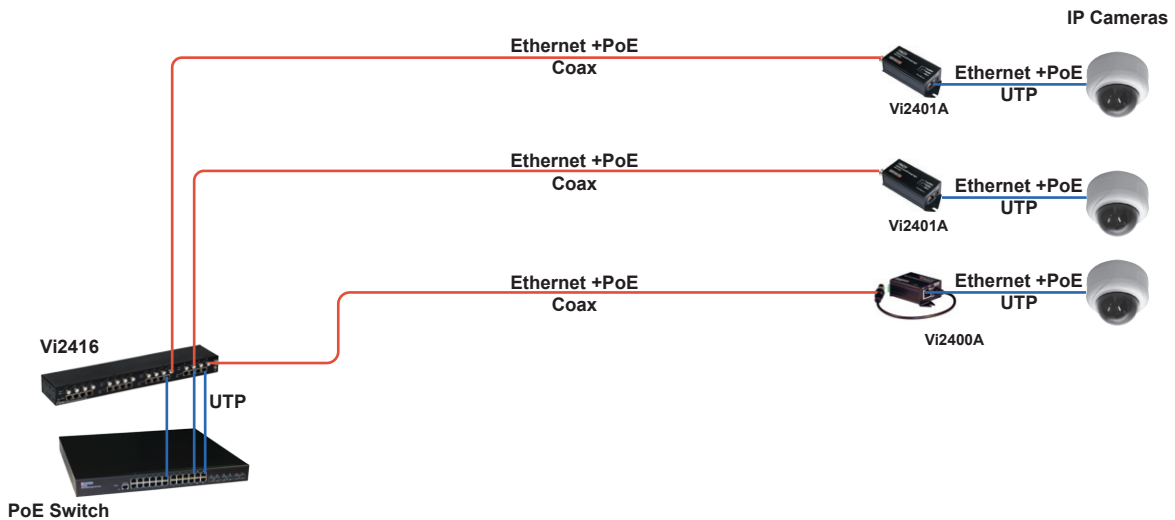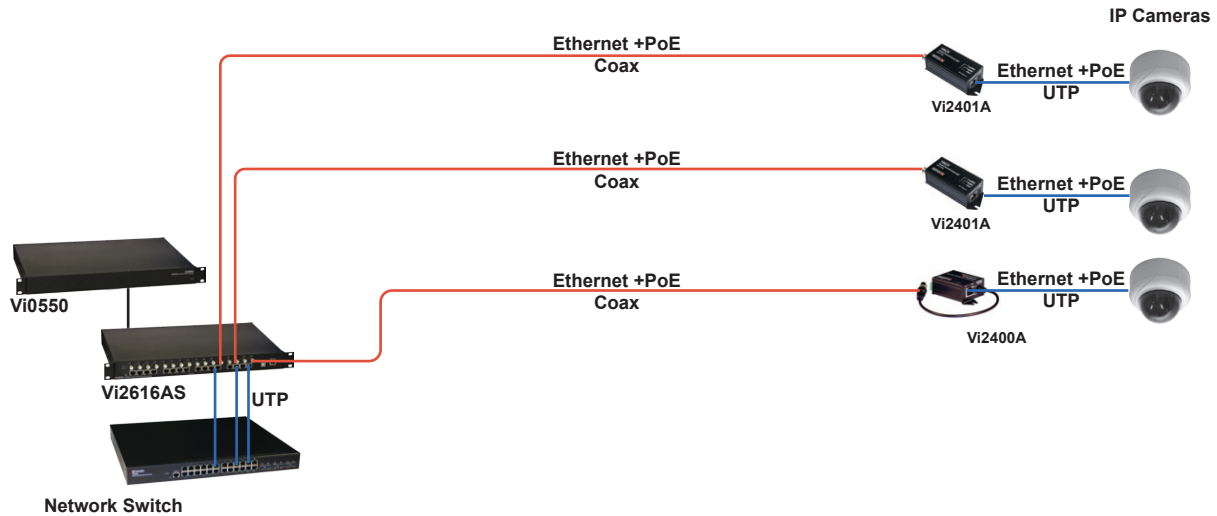| Part No.	Description
Vi2400A	Single port Mini Coax Ethernet Extender
Vi2401A	Single port Coax Ethernet Extender
Vi24xxA	4, 8, 16-port Coax Ethernet Extenders
Vi26xxA	4, 8, 16-port Coax Extended Midspans
Vi0012	12 VDC Wall-mount Power Supply

Data and PoE Distance

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

1. Specifications subject to change without notice.
2. 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.
3. Distance figures are based on RG59U Coax cable and external power supply for extender and camera.
4. 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.
5. System can be powered for 802.3af /at using PTP™ reference used is Class 2.

2.86"

0.9"

Mounting Pattern

MaxiiCopper™
Vi2400 Mini
Ethernet & PoE Extender over Coax
Power
VIGITRON
Made in U.S.A.

Power
12DC

1.75"

0.97"

2"

11"

Left View

Top View

Right View

Application Diagrams

IP Cameras

Ethernet +PoE
Coax

Vi2401A

Ethernet +PoE
UTP

Ethernet +PoE
Coax

Vi2401A

Ethernet +PoE
UTP

Ethernet +PoE
Coax

Vi2400A

Ethernet +PoE
UTP

Vi0550

Vi2616AS   **UTP**

Network Switch

IP Cameras

Ethernet +PoE
Coax

Vi2401A

Ethernet +PoE
UTP

Ethernet +PoE
Coax

Vi2401A

Ethernet +PoE
UTP

Ethernet +PoE
Coax

Vi2400A

Ethernet +PoE
UTP

Vi2416

UTP

PoE Switch

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