

Vi2401A

Single Port Ethernet Extender over Coax

Features

- Converts Ethernet UTP to transmit network data and PoE over standard coax cable.
- 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.
- Pass Through PoE (PTP™) compatibility with 802.3af and 802.3at Power over Ethernet reduces installation costs while maintaining camera safeguards.
- 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.
- 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.
- Type tested for -40°C to +75°C temperature range under NEMA-TS2 testing standards.
- Complies to major IEEE standards and RFC network protocols for UDP, TCP/IP, HTTP/HTTPS.

















Applications

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

Vigitron's MaxiiCopper™ Vi2401A is an Ethernet over Coax extender that brings new performance standards to the growing need for high speed transmission of full bandwidth Ethernet and PoE over extended distances of coaxial cables. Its unique Symmetric Bandwidth (SBW™) assures full bandwidth transmission is maintained over the entire operational distance for both uploads and downloads with Virtual Żero Paćket 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 Vi2401A is the perfect solution for extended distance data and power transmission for warehouses, parking lots, campuses, casinos, and many more. MaxiiCopper's TM Vi2401A is low power and easily fits inside most cameras housing and junction boxes. Best of all, the Vi2401A is MegaPixel Certified (MPC™), type tested to network packet performance standards, and major manufacturer compatibility tested to assure you error free and reliable operations. It is available in single, four, eight and sixteen port configurations to meet every system application requirement.

Installation cost savings, proven performance, and major camera brand compatibility all go into making Vigitron's MaxiiCopper™ Vi2401A your best choice for extended distance data and power transmission.











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 (549 m) at 100BaseT

Power 12 VDC, 24 VAC, PoE @150 mA (max.) Consumption 1.8 W with external power supply or PoE

Status LEDs Power On

Standard Ethernet: Traffic, Link

Extended Ethernet: Traffic, 10/100BaseT

Connectors Ethernet Interface: RJ-45 Connector

Extended Interface: Female BNC

Power: IEC380-8 inlet

PoE Compatibility IEEE 802.3af , IEEE 802.3at RFC 768 UDP, 2068 HTTP, 793 TCP

791 IP, 1783 TFTP, 894 IP over Ethernet

2544 TCP/IP Packet Transmission

Jumbo Frame Support Up to 9,600 bytes

Regulatory

FCC Part 15, Subpart B, 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, WEEE 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 1.15x1.6x3.73 in., 3.0x4.0x9.5 cm (HxWxL)

Weight 0.212 lb, 96 g

Material Extruded Aluminum

Ordering Information

Part No. Description

Vi2401A Single port Coax Ethernet Extender

Related Products

Part No. Description

rait No.	Description
	Single port IP67 Coax Ethernet Extender
Vi2400A	Single port Mini Coax Ethernet Extender
Vi2404A	4-port Coax Ethernet Extender
Vi2408A	8-port Coax Ethernet Extender
Vi2416A	16-port Coax Ethernet Extender
Vi2601	Single port Extended Coax Midspan
Vi2608	8-port Extended Coax Midspan
Vi2616	16-port Extended Coax Midspan
Vi0012	12 VDC Wall-mount Power Supply

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)

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.

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

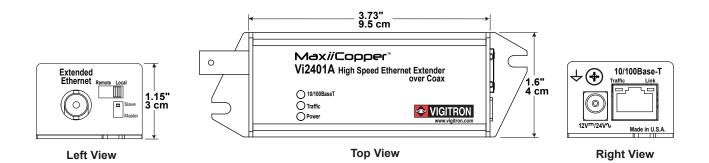


^{*} Specifications subject to change without notice.

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.

Mechanical Drawings



Application Drawings

Coax
Cat 5/6

Transmitting Ethernet and PoE over Extended Coax Cables Data + PoE 328 ft. (100m) Vi2401A Vi2400A Data + PoE **Extended Coax** Vi2401A **PoE Cameras** Vi2400A Data + PoE Data + PoE 328 ft. (100m) **Extended Coax PoE Cameras** Vi2400WP Vi2401A Data + PoE Data + PoE 328 ft. (100m) **Extended Coax** Data + PoE 328 ft. (100m) **Network Switch**

The Vi2301As and Vi3005 can be used to connect multiple PoE cameras at extended distances.

