Vi2401

MaxiiCopper™ High-Speed 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 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.
- Built in transceiver cable connectivity tester.
- Type tested for -40°C to +75°C temperature range under NEMA-TS2 testing standards.
- Data rate selectable to for maximum bandwidth utilization.
- Complies to major IEEE standards and RFC network protocols for UDP, TCP/IP, HTTP/HTTPS.
- USA designed and manufactured.
- Limited Life Time Warranty.







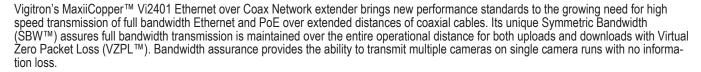






Applications

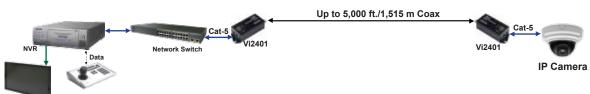
- Retrofit analog CCTV installations into Digital systems.
- Extending Networks in industrial environment.
- CCTV System for Casinos, Airports, School Campuses



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 Vi2401 is the perfect solution for extended distance data and power transmission for warehouses, parking lots, campuses, casinos, and many more. MaxiiCopper's™ Vi2401 is low power and easily fits inside most cameras housing and junction boxes. Best of all, the Vi2401 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 channel configurations to meet every system application requirement.

Installation cost savings, proven performance, and major camera brand compatibility all go into making Vigitron's MaxiiCopper™ Vi2401 your best choice for extended distance data and power transmission.

Application Diagram













Technical Specification¹

Electrical

Ethernet Interface Standard 10/100BaseT

Data Rate Dip switch selectable 10/100 Mb/s

Full speed / full duplex at maximum rated distance

75 Ohm, 5,000 feet (1,515 m) at 10BaseT Coax

1,800 feet (546 m) at 100BaseT

Power Supply 12 VDC, 24 VAC, PoE af @150 mA (max.)

1.5 W with external power supply

2.5 W using 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

RFC 2544 TCP/IP Packet Transmission

PoE Compatibility IEEE 802.3af

RFC 768 UDP, 2068 HTTP, 793 TCP

791 IP, 1783 TFTP, 894 IP over Ethernet

Jumbo Frame Support

Regulatory

FCC Part 15, Subpart B, Class B 2010

EN 5502:2006+A1:2007 **Emissions**

EN 61000-3-2:2006+A1:2009+A2:2009

EN 61000-3-3:2008

EN 55024:1998+A1:2001+A2:2003

Safety CE. UL RoHS Environmental

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 q Material Extruded Aluminum

Accessories

12 VDC wall-mount power supply (optional)

Ordering Information

PART No Description

Vi2401	401 Single port Coax Ethernet Extender 404 4-port Coax Ethernet Extender	
Vi2404		
Vi2408	8-port Coax Ethernet Extender, 19", 1U	
Vi2416	16-port Coax Ethernet Extender,19", 1U	
Vi0012	12 VDC Wall-mount Power Supply	

System Configuration

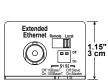


Data and PoE Distance^{2,5}

	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)

- 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.

 3. Distance figures are based on RG59U Coax cable and external power supply for
- Specifications reflect operating using Pass Through PoE (PTP™) providing power for both transceivers and camera from a single source. Distances may increase if
- **5.** System can be powered for 802.3af using PTP™ reference used is Class 2.









Right View



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