

Vi2400W

MaxiiCopper™ High-Speed IP67 Ethernet Extender over Coax

PRELIMINARY

Features

- Converts Ethernet UTP to transmit network data and PoE over standard coax cable
- IP67 weatherproof/waterproof construction for mounting on buildings and poles
- Certified for IEC600068-2-52 for salt laden environments
- Simplifies installation and lowers costs by eliminating need for extra cost enclosures
- 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
- 6Kv surge protection
- 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
- 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



Vigtron's MaxiiCopper™ Vi2400W 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 IP67 rated housing protects performance under harse weather conditions and up to 3 feet (1m) of water. Developed as a complete product the Vi2400W simplifies installation and lowers cost by eliminating the need for extra cost housings. 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 -40°C to +75°C, the Vi2400W is the perfect solution for extended distance data and power transmission for warehouses, parking lots, campuses, casinos, and many more. MaxiiCopper's™ Vi2400W is low power and easily fits inside most cameras housing and junction boxes. Best of all, the Vi2400W 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 Vigtron's MaxiiCopper™ Vi2400W your best choice for extended distance data and power transmission.



The Smart Choice for Transmission Solutions

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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	1,500 feet (454 m) at 100BaseT with PoE
Power Consumption	1.8 W w/PoE af/at, 1.5 W
Connectors	RJ45 x 1 BNC x 1
Surge Protection	6Kv
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

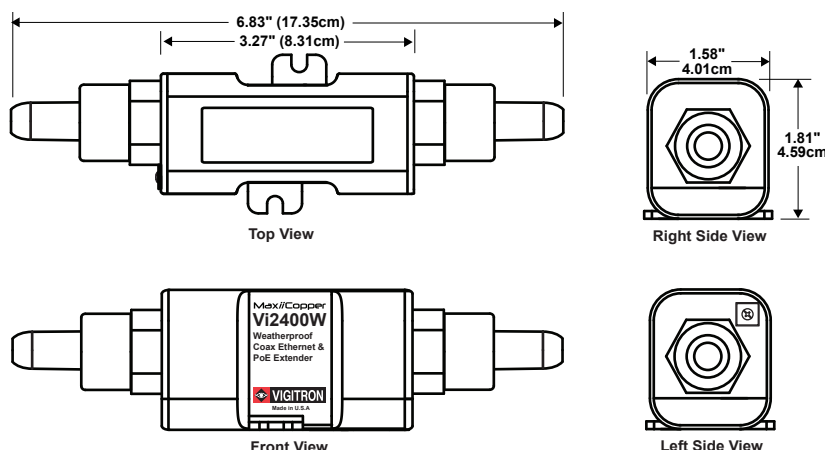
Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: -40°C to +75°C per NEMA-TS2 testing** Storage: -40°C to +85°C
Environment	IEC 60068-252 Salt Laden

Mechanical

Dimensions	1.81x3.27x1.58 in., 4.59x8.31x4.01 cm (HxWxL)
Weight	0.56lb (254g)
Material	Extruded Aluminum

**Vigtron "W" are designed as self contained to comply with specific environmental standard. Operating in conditions other than free air with proper ventilation will affect performance and may void warranty.



Ordering Information

PART No.	Description
Vi2400W	IP67 Single port Coax Weatherproof Ethernet Extender
Vi2401A	Single port Coax Ethernet Extender
Vi24xxA	4, 8, 16-port Coax Ethernet Extenders
Vi26xxA	4, 8, 16-port Coax Extended Midspans

Data and PoE Distance

Vi2400W

This application applies when both transceivers and the cameras are powered by a single source using PoE

Configuration	Midspan	Vi2401A	Coax RG59	Vi2400W	Camera
Transceivers	Vi2401A (2pcs)				
Cable Distance (Ft.)	Power Available at PD				
1000 Feet	Class 0 or 3 (12.95 Watts) @ 100Mbps				
800 Feet	Class 2 (6.49 Watts) @ 100Mbps		Class 0 or 3 (12.95 Watts) @ 100Mbps		Class 4 (25 Watts) @ 100Mbps
500 Feet	Class 2 (6.49 Watts) @ 100Mbps		Class 0 or 3 (12.95 Watts) @ 100Mbps		Class 4 (25 Watts) @ 100Mbps
300 Feet or Less	Class 2 (6.49 Watts) @ 100Mbps		Class 0 or 3 (12.95 Watts) @ 100Mbps		Class 4 (25 Watts) @ 100Mbps
PoE PSE Source	15.4 Watts	30 Watts	30 Watts	37 Watts	37 Watts

¹ 802.3af require 37 watts at PD

² 802.3af require 42.5 watts at PD

³ The standard RG59 cable has 22 ohm DC resistance per 1000 feet

- 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 /at using PTP™ reference used is Class 2.
- System can be used with PoE power levels up to 37 watts.



Application Diagrams

