

# Vi2300A **Mini**

## Single Port Ethernet Extender over UTP

### Features

- Extends Ethernet beyond 328 feet (100 m) limitation up to 3,000 feet (914 m) over UTP cables
- Compact, design, fits inside 4 x 4 and J-Box enclosures
- Able to fit inside weatherproof and plenum rated enclosures
- Requires no switch setting or network programming
- Extended Pass Through PoE (EPTP™) compatible with 802.3af, at, bt up to 74W
- Mega-Pixel 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™)
- Type tested to RFC-2544 TCP/IP network bandwidth packet transmission standards
- Supports one-pair or four-pair UTP wires with built-in transceiver cable connectivity tester
- Type tested for -40°C to +75°C temperature range under conforming to NEMA-TS2 testing standards
- Removable wings provides easy mounting
- Complies to major IEEE standards and RFC network protocols for UDP, TCP/IP, HTTP/HTTPS.



### Applications

- Extending Ethernet distances beyond Ethernet 100 m limit
- Retrofit UTP analog CCTV installations into Digital systems
- Providing high power PoE to PTZ cameras at long distances
- CCTV System for Casinos, Airports, School Campuses

Vigtron's Mini MaxiiCopper™ Vi2300A UTP Ethernet extender brings new performance standards to the growing need for high speed transmission of full bandwidth Ethernet and high-power PoE power over extended distances. The compact mini extenders are 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. It can use 1 pair or 4 pairs of UTP and requires no switch setting or network programming.

Extended Pass Through PoE (EPTP™) 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. The Vi2300A can pass through PoE power, up to 74Watts, UPoE compliant. Type tested under NEMA-TS2 environmental standards for extended temperature operation between -40°C to +75°C. The Vi2300A is the perfect solution for extended distance data and power transmission for warehouses, parking lots, campuses, casinos, and many more. MaxiiCopper's Vi2300A is low power and can easily fit inside most cameras housing and junction boxes. Best of all, it is MegaPixel Certified (MPC™), type tested to network packet performance standards, and major camera brand 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 Mini MaxiiCopper™ Vi2300A the 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 distances
UTP	100 Ohm +/- 20%, Cat5 or better 10BaseT: up to 3,000 ft. (914 m) 100BaseT: up to 2,100 ft. (640 m)
Power Consumption	12 VDC, 1.8 W w/PoE, 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: RJ-45 Connector Power: 2-pin Pluggable Terminal Block
PoE Compatibility	IEEE 802.3af, IEEE 802.3at, IEEE 802.3bt PoE Standards up to 74W
RFC	2544 TCP/IP Packet Transmission 768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet
Jumbo Frame	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
Environmental	RoHS

## Environmental

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

## Mechanical

Dimensions	0.97x1.75x2 in., 2.5x4.4x5 cm (HxWxL)
Weight	0.15 lb, 67 g
Material	Extruded Aluminum

\*Specifications subject to change without notice.

## Ordering Information

### Part No. Description

<b>Vi2300A</b>	Single port Mini UTP Ethernet Extender
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## Related Products

### Part No. Description

<b>Vi2301A</b>	Single port UTP Ethernet Extender
<b>Vi2301AU</b>	Single port UTP Ethernet Extender
<b>Vi2300WP</b>	Single port IP67 UTP Ethernet Extender
<b>Vi2304A</b>	4-port UTP Ethernet Extender
<b>Vi2308A</b>	8-port UTP Ethernet Extender
<b>Vi2316A</b>	16-port UTP Ethernet Extender
<b>Vi2508</b>	8-port Extended UTP Midspan
<b>Vi2516</b>	16-port Extended UTP Midspan
<b>Vi2701RX</b>	Single port Extended UTP Midspan
<b>Vi0012</b>	12 VDC Wall-mount Power Supply

## Data and PoE Distance <sup>1</sup>

Data Rate	4-Pair <sup>2</sup> (Data + PoE class 2)	1-Pair (Data only)
10BaseT	n/a	3,000 ft. (914 m)
100BaseT	2,100 ft. (636 m)	1,000 ft. (303 m)

- 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.
- 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.

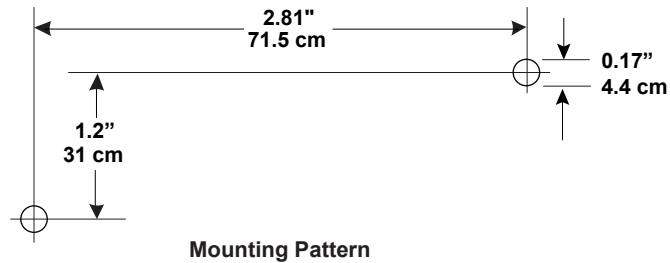
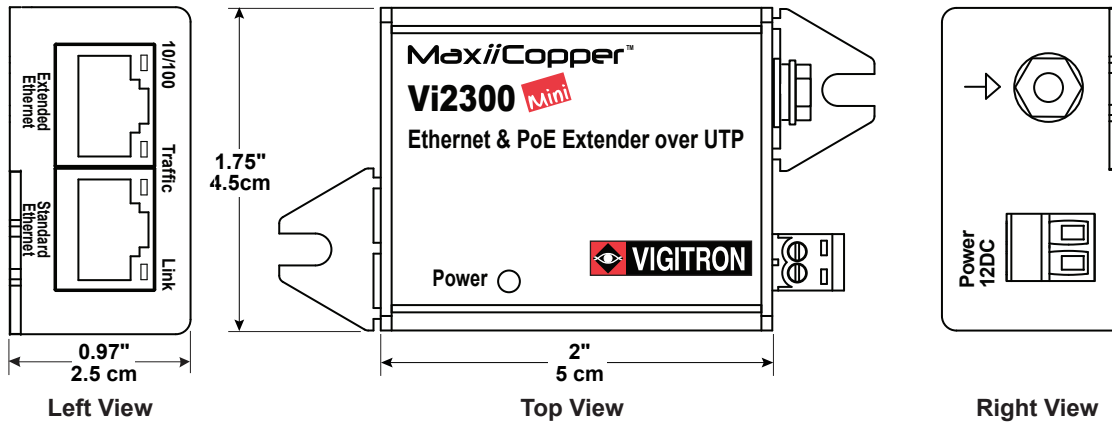


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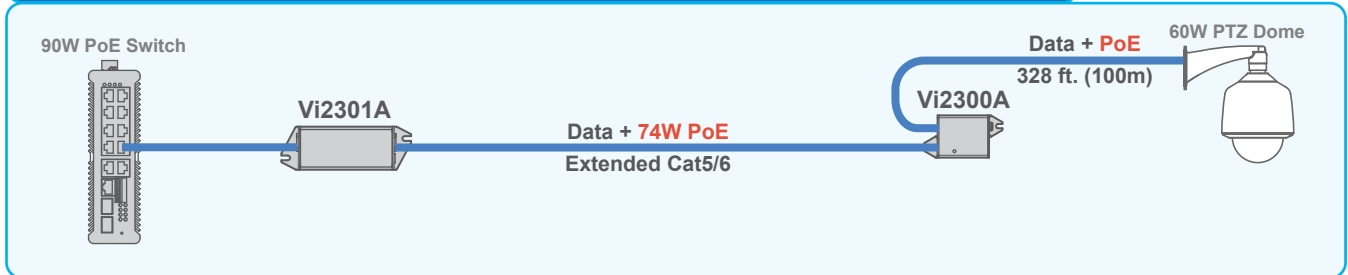
# Mechanical Drawings



# Application Drawings

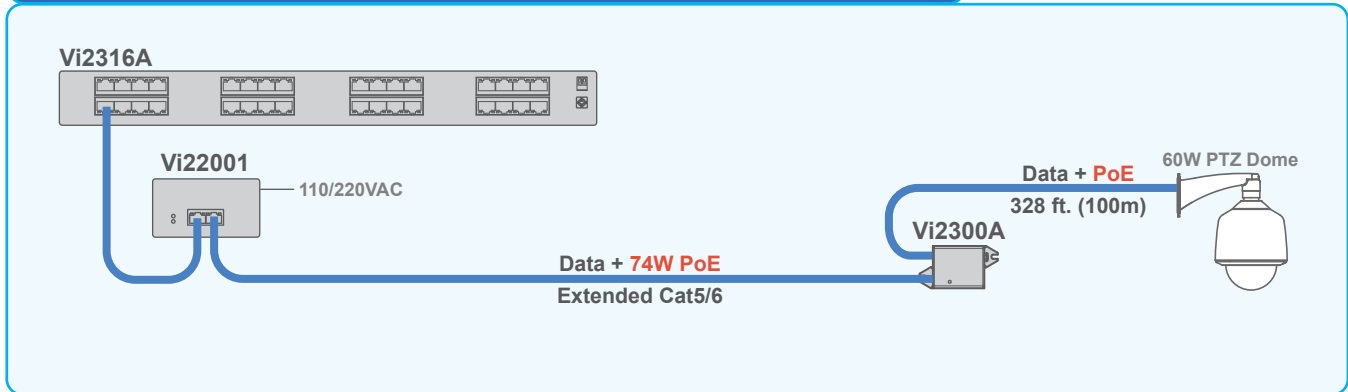
Cat 5/6

## Extending Ethernet and 74W PoE from a PoE Switch



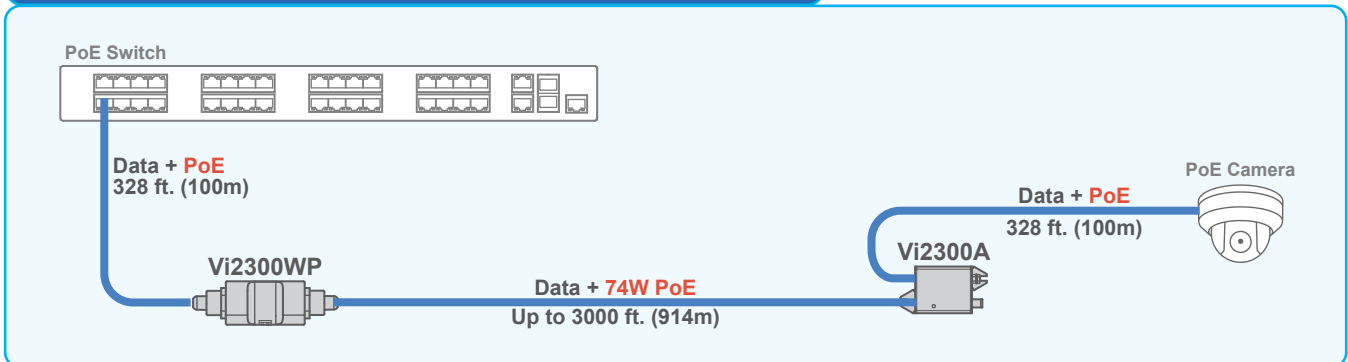
The Vi2300A extends Ethernet and 74W PoE from a PoE switch.

## Extending Ethernet and 74W PoE from a Switch & PoE Midspan



The Vi2300A extends Ethernet and 74W PoE from a PoE Midspan.

## Using Vi2301A with UTP Ethernet and PoE Extenders



The Vi2300A and Vi2300WP UTP Ethernet and PoE extenders can extend IP video and PoE at distances up to 3000ft of Coax.