# Vi2301

## MaxiiCopper™ High-Speed Ethernet Extender over UTP

## Features

- Easy extension path - extends Ethernet Networks beyond 100 m limitation for CCTV and IT projects
- Saves costs and time – avoids expense of traditional Ethernet network equipment
- Extends standard Ethernet - 10BaseT up to 5,000 feet (1,524 m) and 100BaseT up to 2,100 feet (640 m)
- Switch selectable LAN rate - optimizes the best possible rate/distance design for each application
- High data rate – ideal for high bandwidth requirements of Mega-pixel cameras or multiple IP cameras
- Small footprint - fits inside most camera housings
- Compatible with any LAN device - fully transparent to Ethernet networks and higher layer protocols
- Easy to install - no IP address programming or other networking setup required
- LED Indicators - provide link status and data rate
- Very low power - can share power supply with camera
- Limited lifetime warranty – peace of mind
- Designed and made in the USA – uses a unique state-of-the-art data transmission technology

## Applications

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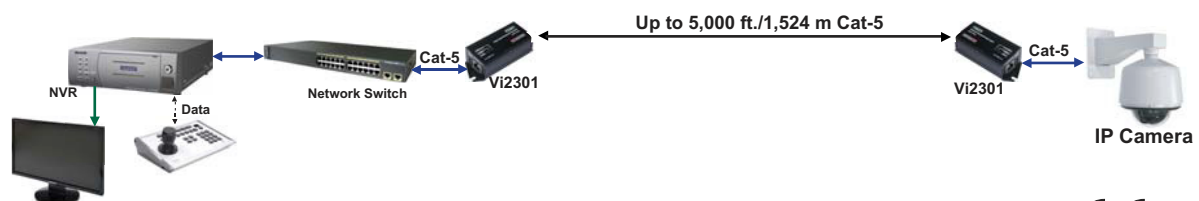- CCTV System for Casinos, Airports, School campuses

The MaxiiCopper Model Vi2301 is a revolutionary data transmission device that extends full-duplex High-Speed Ethernet over existing UTP infrastructures. It extends 10BaseT signals up to 5,000 feet (1,524 m) and 100BaseT up to 2,100 feet (640 m). It employs MaxiiCopper innovative and unique Ethernet extension technology that is designed to take full advantage of high-bandwidth networking cables and maintain a full-duplex 10 or 100 Mb/s Ethernet connection up to the maximum range - with minimum transmission error and latency.

Multiple remote network devices such as Mega-pixel IP cameras or VoIP can be connected to a central LAN switching fabric with ease. Its dual-rate capability provides an easy way to balance the best possible network throughput and long-reach distance design.

The MaxiiCopper is a transceiver device and it needs to be deployed on both ends of the UTP cable as master and slave devices respectfully via a simple dip switch. A second dip switch sets the data rate between the remote and central locations. The MaxiiCopper is equipped with LEDs to provide link status and configured data rate. No other IP setting or configurations are required and it is completely transparent to the corporate IP network and higher layer protocols.

The MaxiiCopper is the smallest size of its kind in the market and can be easily fit inside most camera housings. Its low power requirement supports a wide range of power supplies, or can shares the IP camera power source. Vigitron offers multi-port, rack or wall mountable models for larger projects.

## Application Diagram



NVR — Data — Network Switch — Cat-5 — Vi2301 — Up to 5,000 ft./1,524 m Cat-5 — Vi2301 — Cat-5 — IP Camera

# Technical Specification*

## Electrical

| | |
|---|---|
| Ethernet Interface | Standard 10/100BaseT |
| Ethernet Rate | Dip switch selectable 10/100 Mb/s<br>Full speed at maximum rated distance |
| UTP | 100 Ohm +/- 20%, 5,000 feet (1,524 m) at 10BaseT<br>2,100 feet (640 m) at 100BaseT |
| Power Supply | 12 VDC / 24 VAC, 150 mA maximum |
| Status LEDs | Red LED, link<br>GreenLED, 10BaseT<br>Yellow LED, 100BaseT |
| Connectors | Ethernet Interface: RJ-45 Connector<br>Extended Interface: RJ-45 Connector<br>Power: IEC380-8 inlet |

## Environmental

| | |
|---|---|
| Humidity | 0 to 95%, non-condensing |
| Temperature | Operating: -10°C to +50°C<br>Storage: -30°C to +70°C |

## Mechanical

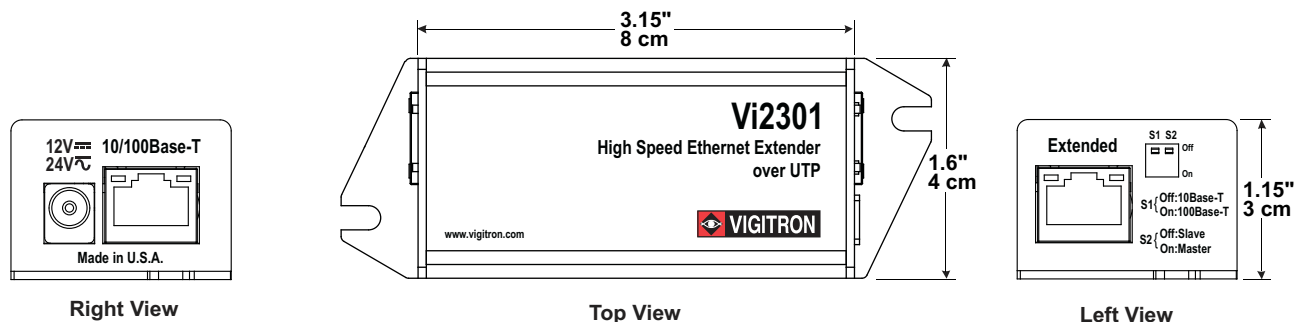| | |
|---|---|
| Dimensions | 1.15x1.6x3.15 in., 3.0x4.0x8.0 cm (HxWxL) |
| Weight | 0.212 lb, 96 g |
| Material | Extruded Aluminum |

## Accessories

12 VDC wall-mount power supply (optional)

*Specifications subject to change without notice.

## Ordering Information

| PART No. | Description |
|---|---|
| Vi2301 | Single port UTP Ethernet Extender |
| Vi2304 | 4-port UTP Ethernet Extender |
| Vi2308 | 8-port UTP Ethernet Extender, 19", 1U |
| Vi2316 | 16-port UTP Ethernet Extender,19", 1U |
| Vi0012 | 12 VDC Wall-mount Power Supply |

## System Configuration



**Vi2301**

**5,000 ft.
1,524 m**

**Vi2301**

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**12V** ⎓ **10/100Base-T**
**24V** ∿

**Made in U.S.A.**

**Right View**

**3.15"
8 cm**

**Vi2301**

**High Speed Ethernet Extender
over UTP**

www.vigitron.com

◆ **VIGITRON**

**Top View**

**1.6"
4 cm**

**Extended**

S1 S2
□□ Off
□□ On

S1 { Off:10Base-T
On:100Base-T

S2 { Off:Slave
On:Master

**1.15"
3 cm**

**Left View**

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