

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 (1,524m) and 100BaseT up to 2,100 feet (640m)
- 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
- Surge protection - protects connected video equipment
- 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

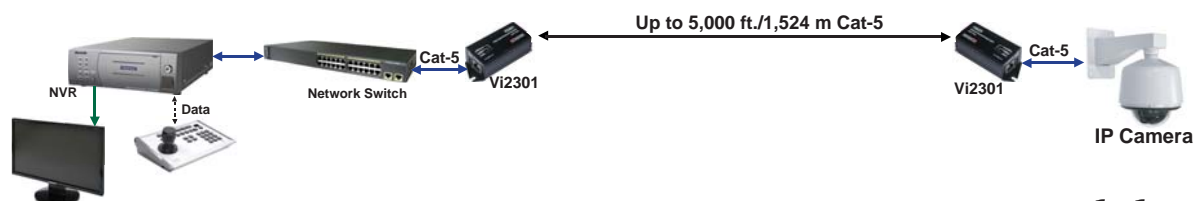
- Retrofit analog CCTV installations into Digital systems
- Extending Networks in industrial environment
- CCTV System for Casinos, Airports, School campuses

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 (1,524m) and 100BaseT up to 2,100 feet (640m). It employs an innovative and unique Super Ethernet scheme instead of traditionally used DSL technology. DSL technology is designed for data transmission over low grade wires and the inherent redundant data transmission scheme for error correction significantly reduces effective data rate as distance increases. MaxiiCopper is designed to take full advantage of high-bandwidth networking cables and maintains 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 feature 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 respectively via a simple dip switch. A second dip switch sets the data rate between the remote and central locations. The MaxiCopper 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



Technical Specification*

Electrical

Ethernet Interface	Standard 10/100BaseT
Ethernet Rate	Dip switch selectable 10/100 Mb/s Full speed at maximum rated distance
UTP	100 Ohm +/- 20%, 5,000 feet (1,524 m) at 10BaseT 2,100 feet (640 m) at 100BaseT
Power Supply	12 VDC / 24 VAC, 150 mA maximum (12 VDC power supply included)
Status LEDs	Red LED, link Yellow LED, 10BaseT Green LED, 100BaseT
Connectors	Ethernet Interface: RJ-45 Connector Extended Interface: RJ-45 Connector Power: IEC380-8 inlet
Transient Immunity	per ANSI/IEEE 587 C62.41

Environmental

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

Included Accessories

12 VDC wall-mount power supply

*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

System Configuration

