Vi2401

MaxiiCopper™ High-Speed Ethernet Extender over Coax

Features

- Easy Upgrade Path - converts existing analog CCTV system over coaxial cable to state-of-the-art high-speed Ethernet network for both CCTV and IT projects
- Saves costs and time – avoids rewiring and expense of traditional Ethernet network equipment
- Extends standard Ethernet - 10BaseT up to 5,500 feet (1,680m) 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 – excellent for high network 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
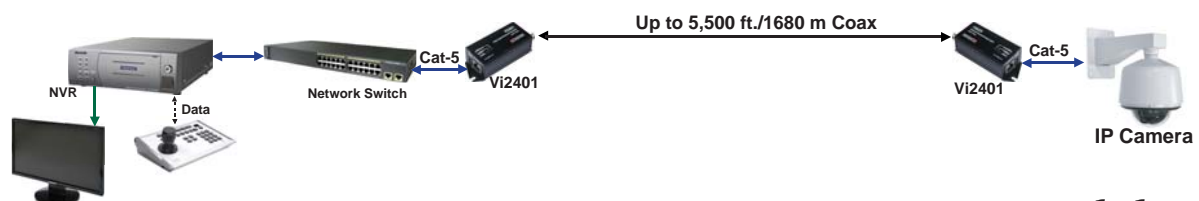
Applications

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

The MaxiiCopper Model Vi2401 is a revolutionary data transmission device that extends full-duplex High-Speed Ethernet over existing coax infrastructures. It extends 10BaseT signals up to 5,500 feet (1,680m) and 100BaseT up to 2,100 feet (640m). Unlike most existing products, 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 coax 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 coaxial 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

Technical Specification*

Electrical

Ethernet Interface	Standard 10/100BaseT
Ethernet Rate	Dip switch selectable 10/100 Mb/s Full speed / full duplex at maximum rated distance
Coax	75 Ohm, 5500 feet (1,680 m) at 10BaseT 2100 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: Female BNC 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
Vi2401	Single port Coax Ethernet Extender
Vi2404	4-port Coax Ethernet Extender
Vi2408	8-port Coax Ethernet Extender, 19", 1U
Vi2416	16-port Coax Ethernet Extender,19", 1U

System Configuration

Vi2401

5,500 ft.
1,680 m

Vi2401

12V⎓ 10/100Base-T
24V∿
Made in U.S.A.

Right View

3.15"
8 cm

Vi2401
High Speed Ethernet Extender over Coax
100BaseT
10BaseT
Traffic ○○○
VIGITRON
www.vigitron.com

1.6"
4 cm

Top View

S1 S2
Off
On
S1 Off:10Base-T
On:100Base-T
S2 Off:Slave
On:Master

1.15"
3 cm

Left View