

Vi2701RX

MaxiiCopper™ Ethernet and 60W PoE++ Extended Receiver

Features

- Provides Ethernet data and PoE power up to 60W at extender distances
It extends Ethernet over 3,000 feet (914m) of UTP cables
- Vi2701RX provides up to 74W power to both the Vi2701TX and PD, eliminating the need for remote site power supplies and power sources
- Interfaces with Vigitron's Vi2300A series and Vi2701tx to provide full PoE class power up to 3,000 ft. 909m
- UPoE PoE to 74 watts
- Meets the increasing requirements for high power PoE++ fixed and dome cameras
- MegaPixel Certified (MPC™) high data rate, for virtual loss free transmission of cameras requiring Jumbo Frame transmission
- 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 and Jumbo Frame Transmission



Applications

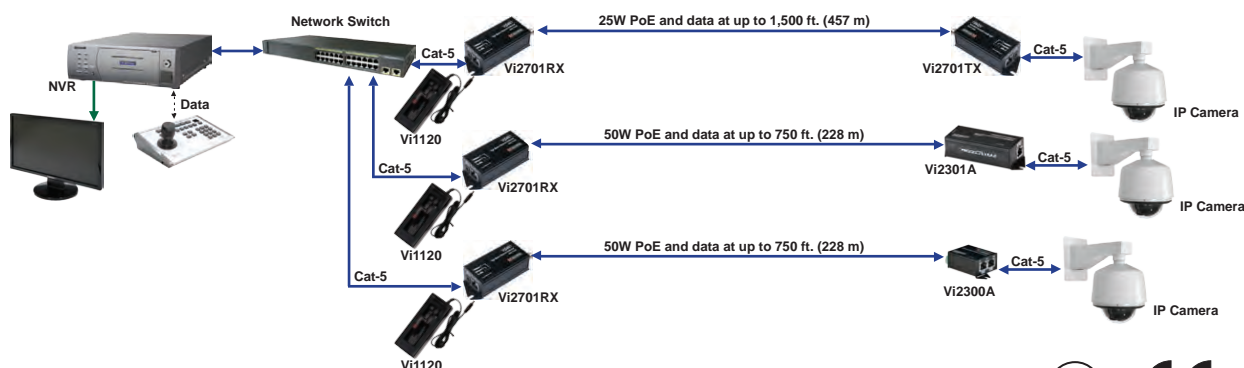
- Upgrading analog CCTV installations to digital systems
- Expanding networks in industrial environment
- Any IP CCTV transmission that requires high power greater than 30W
- PoE solution for PTZ domes that power heaters and blowers via PoE

Vigitron's MaxiiCopper™ Vi2701RX is designed to meet the growing need for Ethernet and PoE transmission of high powered cameras and other PoE powered devices. With the ability to transmit 60W power beyond Ethernet standard distance and to handle up to 74W, UPoE, the Vi2701RX provides power to both the Vi2701TX and PD devices, eliminating the need for expensive remote-site power supplies and power sources, and significantly lowering system installation and operating costs. The Vi2701RX interfaces with both the Vi2701TX and Vi2300A product series to provide full class power up to distances of 3,000 ft. (909m).

The Vi2701RX includes unique features that assure high performance required to support the largest Megapixel cameras. The Vi2701RX's Symmetric Bandwidth (SBW™) assures full bandwidth transmission is maintained over the entire operational range for both uploads and downloads with Virtual Zero Packet Loss (VZPL™). MaxiiCopper™ Vi2300A can easily fit inside most camera housings and junction boxes. It is MegaPixel Certified (MPC™), type tested to network packet performance standards, along with major manufacturer compatibility testing to guarantee error-free and quality operation.

Installation cost savings, tested and proven performance, and major camera manufacturer compatibility all go into making Vigitron's MaxiiCopper™ Vi2701RX, your best choice for extended distance data and PoE++ power transmission.

Application Diagram



The Smart Choice for Transmission Solutions

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DSVi2701RX_0618

Technical Specification

Electrical

Ethernet Interface	Standard 10/100BaseT
Ethernet Rate	10/100 Mb/s, Auto selectable Full speed / full duplex at maximum rated distance
UTP**	100 Ohm +/- 20%, 3,000 feet (914 m) at 10BaseT 2,100 feet (640 m) at 100BaseT
Power Supply	52-57 VDC, 80 W min.
PoE Output (RX)	56V, @ 74W max UPoE
Status LEDs	Power Standard Ethernet: Traffic, Link Extended Ethernet: Traffic, 10/100BaseT
Connectors	Ethernet Interface: RJ-45 Connector Extended Interface: RJ-45 Connector Input Power: Round DC Jack
RFC	2544 TCP/IP Packet Transmission
Compatible with RFC	IEEE 802.3af PoE, IEEE 802.3at PoE, PoE++, UPoE 768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet

Regulatory

Safety	CE, UL, cUL
Environmental	RoHS

Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: -20°C to +75°C Storage: -40°C to +80°C

Mechanical

Dimensions	1.15 x 1.6 x 4.2 in, 2.9 x 4 x 10.5 cm (HxWxL)
Weight	0.28 lb (127 g)
Material	Aluminum

Accessories

56VDC/120W Wall-mount power supply (optional)

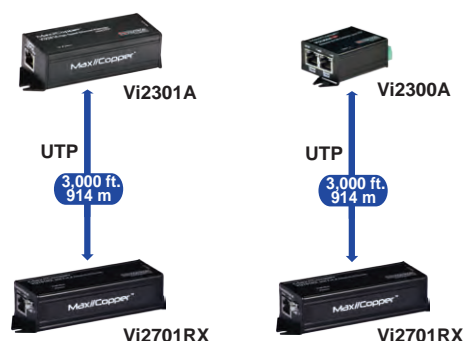
*Specifications subject to change without notice.

**Distances are based on indicated power at the PD input and are obtained using Cat-5e cable, 56V power supply. Factors such as cabling, connections and environmental conditions may affect actual distances and should be taken into consideration.

Ordering Information

Part No.	Description
Vi2701TX	Ethernet and High-Power PoE Extender (Remote Unit)
Vi2701RX	Ethernet and High-Power PoE Extender (Local Unit)
Vi1120	120W Wall-mount Power Supply
Vi2300A	Mini High-Speed/High Power Ethernet Extender over UTP
Vi2301A	High-Speed/High Power Ethernet Extender over UTP

System Configuration



Data and PoE Distance

UTP				
Data Rate	Data Only	Data + 802.3af PoE	Data + 802.3at PoE	Data + 50W PoE
10BaseT	3,000 ft. 914 m	3,000 ft. 914 m	1,500 ft. 457 m	750 ft. 228 m
100BaseT	2,100 ft. 640 m	2,100 ft. 640 m	1,500 ft. 457 m	750 ft. 228 m

