

Vi2701RX

Ethernet and 60W PoE Extended UTP Receiver

Features

- Provides Ethernet data and PoE power up to 60W to extended distances
- It extends Ethernet and PoE up to 3,000 feet (914m) of UTP cables
- Up to 74W can be provided to the Vi2701RX and Vi2300 extender series
- Provides IEEE 802.3af/at, UPoE PoE up to 74W
- Meets the increasing requirements for high power PoE fixed and domes 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
- Wide operating temperature of -20°C to +75°C
- Compliant to IEEE 802.3af/at and can drive loads with one PD or 2 PD remote PoE loads



Applications

- Upgrading analog CCTV installations to digital systems
- Expanding networks in industrial environment
- Any IP CCTV transmission that requires high power PoE
- Eliminates any local power requirements for IP cameras, requiring up to 60W at the camera location

Vigtron's MaxiiCopper™ Vi2701RX remote unit is designed to meet the growing need for Ethernet and PoE transmission of high power cameras and other PoE powered devices. It is able to provide up to 74W PoE power beyond Ethernet standard distances and eliminate the need for expensive remote-site power supplies, significantly lowering system installation and operating costs. The Vi2701RX supports both single PD or dual PD PoE cameras. It is compatible with Vigtron's Vi2701TX and Vi2300 series UTP Extenders.

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™). The MaxiiCopper™ Vi2701RX 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 Vigtron's MaxiiCopper™ Vi2701RX, a great choice for extended distance data and PoE power transmission.

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 Input	IEEE 802.3af,at, UPoE up to 74W 48-57VDC up to 74W
PoE Output	56V, @ 74W max
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 Power connector
RFC	2544 TCP/IP Packet Transmission
Compatible with RFC	IEEE 802.3af PoE, IEEE 802.3at 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	1.4 x 2.15 x 4.15 in, 3.5 x 4.3 x 10.4 cm (HxWxL)
Weight	0.37 lb (167 g)
Material	Aluminum

*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
Vi2701RX	Ethernet and High-Power PoE Extender (Local Unit)

Related Products

Part No.	Description
Vi2701TX	Ethernet and High-Power PoE Extender (Remote Unit)
Vi2300A	Ethernet and High-Power PoE Extender
Vi2301A	Ethernet and High-Power PoE Extender

Data and PoE Distance

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

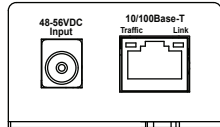


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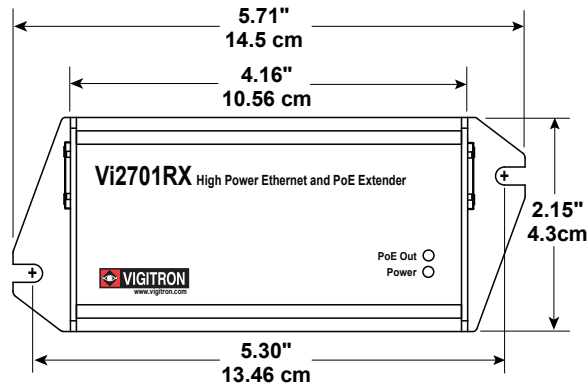
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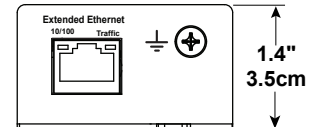
Mechanical Drawings



Right View



Top View

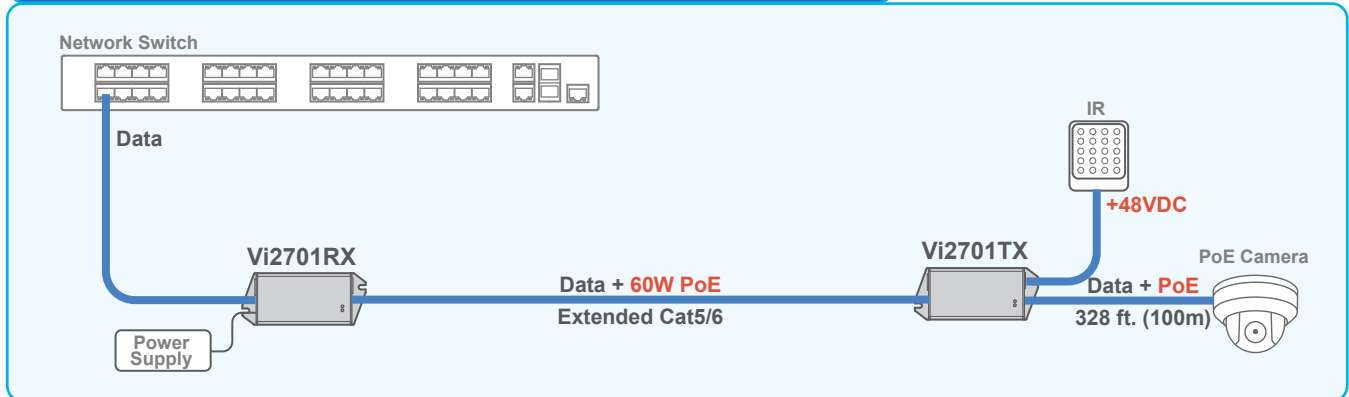


Left View

Application Drawings

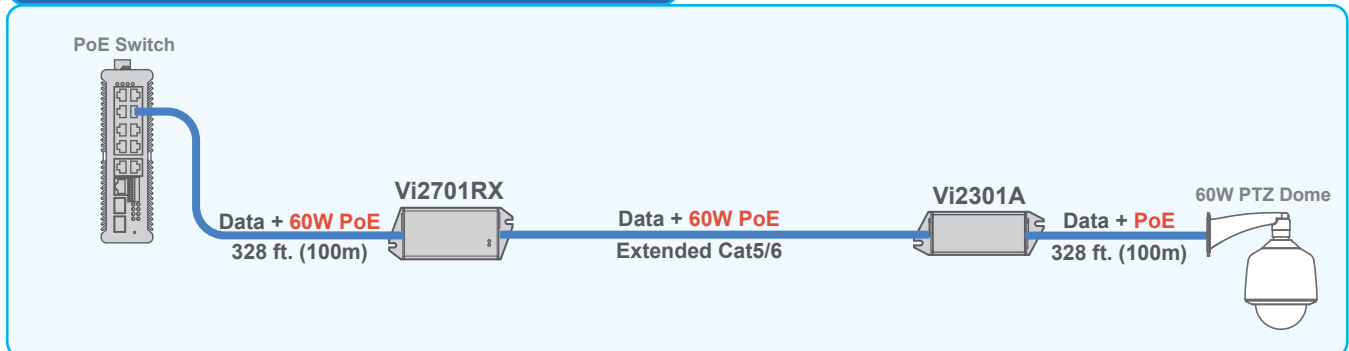
— Cat 5/6

Powering a PoE camera and an IR light over extended UTP



The Vi2701RX can be used with a Vi2701TX to power a PoE camera and provide DC power to an IR light over extended UTP.

Powering a PoE camera over extended UTP



The Vi2701RX can be used with a Vi2301A to power a PoE camera over extended UTP.