



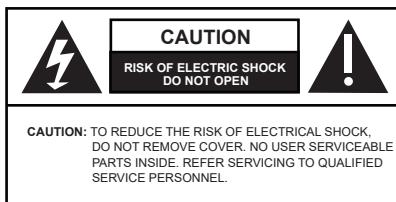
The Vi30602 is an Ethernet and 90W IEEE 802.3bt PoE repeater that provides a cost effective method for increasing distances beyond the Ethernet limit of 328 feet (100m) for IT or CCTV installations at network speeds up to 1000Mbps. Each unit can extend Ethernet and PoE for 328 feet (100m). Multiple units can be cascaded to reach the desired distances. The Vi30602 is a high performance device that meets the demands for the highest PoE powered PTZ domes and LED lighting eliminating the need for local power or providing the ability to add PoE power.

Removable mounting brackets make installation an easy process. The Vi30602 is the perfect solution for any IP transmission application. Up to 4 units can be combined to achieve a distance of 1,450 feet (442m) for IP video, PoE, and data transmission.

It is an ideal solution for extending data, video, and power from PoE switches, Midspans, Power Source Equipment (PSE) and extending communications between network switches.

## Important Safety Warning

- Read and keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Install in accordance with the manufacturer's instructions.
- This installation should be made by a qualified service person and should conform to all local codes.
- DO NOT bundle UTP or Coax signals in the same conduit as high-voltage wiring.
- To reduce the risk of fire or electrical shock, do not expose these products to rain, moisture, dripping or splashing.
- No objects filled with liquids, such as vases, shall be placed on Vigitron equipment.
- DO NOT install the unit in a place where the operating ambient temperature exceeds 75°C or is below - 40°C.
- Make sure that the external power supply output voltage is in the recommended range.
- Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus that produce heat.
- Protect the power cord from being walked on or pinched particularly at power source, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when a power supply cord or plug is damaged, liquid has been spilled, objects have fallen inside the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- The main plug is used as the disconnect device and shall remain readily operable.



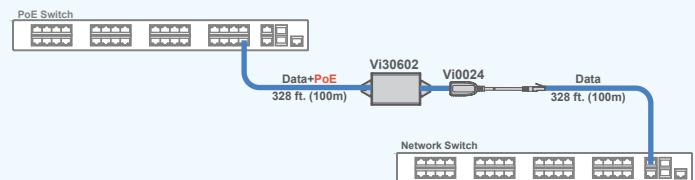
**!** **WARNING!** - To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

**!** **WARNING!** - This apparatus is a Class I product. This product must be connected to a main socket outlet through an AC to DC Power supply.

**!** **WARNING!** - The main plug is used as the disconnect device and shall remain readily operable.

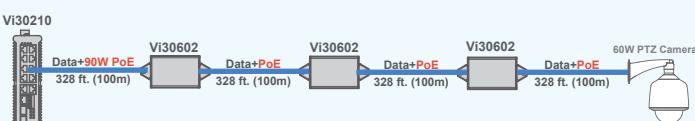
## Application Drawings

### Connecting 2 Network Switches



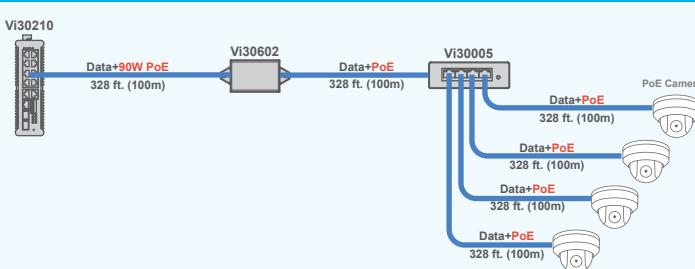
The Vi30602 allows for connection of two network switches at 10/100 Base-T. The Vi30602 is powered by PoE.

### Extending 1G Data and 90W PoE



Multiple Vi30602 can extend the reach of 1G network and 90W PoE beyond 100m.

### Connecting Multiple PoE Cameras at Extended Distances



The Vi30602 can be used to connect multiple PoE cameras at extended distances.

## Installation

### a) Camera Connection:

- Connect the IP camera to one RJ45 port of Vi30602 using standard Cat5/6 cable of maximum 100 meter in length.

### b) Network Connection:

- Connect the other RJ45 port of Vi30602 to a PoE Switch or high Power PoE source using a Standard Cat5/6 cable of maximum 100m in length.

The Vi30602 does not need a local power supply and will be powered by PoE.

## Technical Specifications\*

## Ordering Information

### Electrical

PoE Standard	IEEE 802.3af, at, bt Up to 90W UPoE up to 90W
Network Connection	2 x RJ-45 IEC 60603-7
Wiring Support	Cat 5e/6/7
Power Consumption	3W
LED	Power: Green Ports: 1G (Green), Link/Act. (Yellow)
Data Rate Configuring	Port 1: 10/100/1000 BaseTX, Auto
Data Interfaces and Compliances	RFC 768 UDP, RFC 2068 HTTP RFC 793 TCP, RFC 791 IP RFC 1783 TFTP, RFC 894 IP over Ethernet RFC 2544 TCP/IP Packet Transmission IEEE 802.3af, 802.3at, 802.3z
IEEE Compliances	802.3ab, 802.3z, 802.3af, 802.3at, 802.1p, 802.1Q, 802.1D, 802.1s, 802.3u, 802.3x,
802.3w	
Compliance Services	IPv4 Type of Service (TOS) & Differentiated (Diff-Serv) IPv6 Traffic Class up to 10,000
Bytes	
Jumbo Frame	Up to 9,600 bytes

### Regulatory

NEC Code	For 3, 3 1/2, and 4 inch Conduit at 40% Fill
Safety	CE, FCC
Environmental	RoHS, WEEE

### Environmental

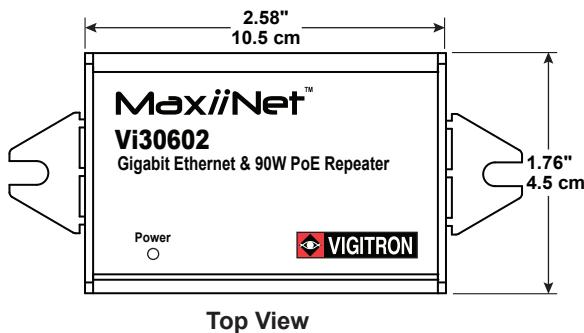
Humidity	0% to 95%, non-condensing
Temperature	Operating: -40°C to 75°C Storage: -40°C to 85°C

### Mechanical

Dimensions	0.97x1.76x2.58 in., 2.5x4.5x10.5 cm (HxWxL)
Weight	0.26 lb (117g)
Housing Material	Extruded Aluminum

\*Specifications subject to change without notice.

### Drawings



Top View

### Part No. Description

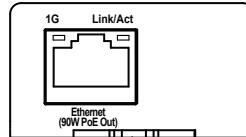
Vi30602	Ethernet 1G PSE 90W PoE Repeater
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### Related Products

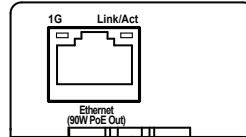
#### Part No. Description

Vi3002	Ethernet and 60W PoE Repeater
Vi3002W	IP67 Weatherproof Ethernet and 60W PoE Repeater
Vi30002U	Ethernet and 90W PoE Repeater

### Status LEDs



Left View



Right View

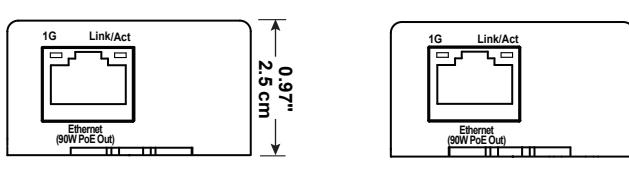
LED	Color	Status	Function
Power	Green	OFF	The Vi30602 is off
30W PoE	Green	ON	The Vi30602 is on
		OFF	Port-2 PoE is off
		ON	Port-2 is delivering PoE
Port 1, 2	Green	FLASHING	PoE voltage is out of range
		OFF	10/100Mbps connection when linked
		ON	1000Mbps connection
		Orange	No link
	Orange	ON	Link flashes with activity

### Limited Lifetime Warranty

Vigitron, Inc. warrants that all Vigitron products ("Product"), if used in accordance with these instructions, will be free of defects in material and workmanship for lifetime defined as the duration period of time until product end of life is announcement. After which Vigitron will continue to provide warranty services for a period of 3 years. Period covering valid warranty will be determined by proof of purchase in the form of an invoice from an authorized Vigitron dealer.

Warranty will only be provided for as long as the original end user purchaser owns the product. Warranty is not transferrable. At Vigitron's option, defective product will be repaired, replaced or substituted with a product of equal value. This warranty does not apply if, in the judgment of Vigitron, Inc., the Product fails due to damage from shipment, handling, storage, accident, abuse or misuse, or if it has been used or maintained not conforming to Product manual instructions, has been modified, or serial number removed or defaced. Repair by anyone other than Vigitron, Inc. or an approved agent will void this warranty. Vigitron, Inc. shall not under any circumstances be liable to any person for any incidental, indirect or consequential damages, including damages resulting from use or malfunction of the product, loss of profits or revenues or costs of replacement goods. The maximum liability of Vigitron, Inc. under this warranty is limited to the original purchase price of the Product only.

Prior to returning any defective Product, the end customer or the reseller from whom the end customer originally purchased the Product must obtain a Return Materials Authorization (RMA) number from Vigitron, Inc. All defective Products should be returned to Vigitron, Inc. with shipping charges prepaid. No collect shipments will be accepted.



Left View

Right View