



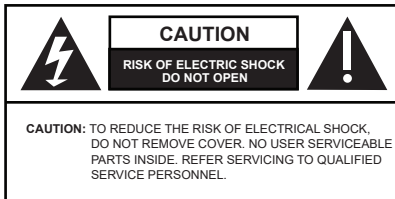
The Vi3602 is an Ethernet and 30W PoE repeater that provides a cost effective method for increasing distances beyond the Ethernet limit of 328 feet (100m) for IT or CCTV installations at network speeds up to 1000Mbps. Each unit can extend Ethernet and PoE for 328 feet (100m). Multiple units can be cascaded to reach the desired distances. The Vi3602 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 Vi3602 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.



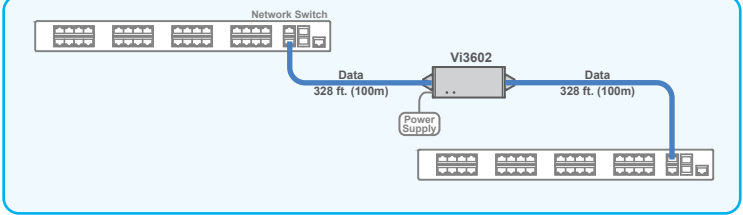
**⚠ WARNING!** - To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

**⚠ 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.

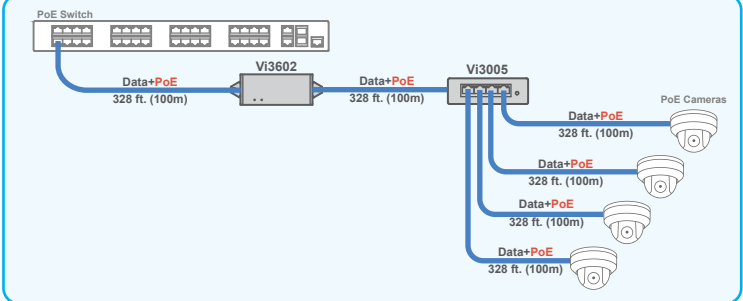
## Application Drawings

### Connecting Network switches beyond 100m



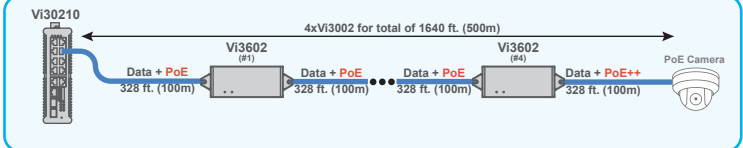
The Vi3602 can extend 1G connection of network switches beyond the 100 meters of standard Ethernet.

### Connecting Multiple PoE Cameras at Extended Distances



The Vi3602 can be used to connect multiple PoE cameras at extended distances.

### Extending Ethernet and PoE using multiple Vi3602s



Up to 8 x Vi3602 can be used in series to extend Ethernet and PoE for up to 1640 ft. (500m).

Multiple Vi3602 can be used to extend Ethernet and PoE. The maximum reach of PoE will be:

PoE	Distance	# of Vi3602
20W	850 ft. (259m)	2
16W	1,150 ft. (350m)	3
11W	1,450 ft. (442m)	4

## Installation (Powered by PoE)

### a) Port-2 (PoE Out) Connection:

- Connect the IP camera's RJ45 connector to Port-2 of Vi3602 using a standard Cat5/6 cable of maximum 100m in length. This port can provide up to 30W PoE power depending on the input PoE.

### b) Port-1 (PoE-In) Connection:

- Connect Port-1 of Vi3602 to the PoE switch or a high power PoE source using a standard Cat5/6 cable of maximum 100m in length. This port can receive up to 30W PoE and data 1Gbps.

## Installation (Powered by Local Power Supply)

### a) Port-2 (Poe Out) Connection:

- As "a" in previous section.

### b) Port-1 (PoE-In) Connection:

- Connect Port-1 of Vi3602 to the network switch using a standard Cat5/6 cable of maximum 100m in length.

### c) Power Connection:

- Connect power connector from Vi1120 120W desktop power supply for using full PoE capacity of Vi3602. If the application does not provide PoE, a Vi0014 can be used for just powering the Vi3602.

## Technical Specifications\*

### Electrical

PoE Rating	Port 1 (PoE In): 30W Port 2 (PoE Out): 30W
Power Transmission Standard	802.3af (15.4W), 802.3at (30W)
Network Connection	(2) RJ-45 IEC 60603-7
Local Power Input Max.	Up to 40W @ 48V
Wiring Support	Cat 5e/6
Power Consumption	3W
Extended Distance Supported	328ft (100m) per link
LED	Power: Green 30W PoE Output: Orange Port 1 (Uplink): 1G (Green), Link/Act. (Yellow) Port 2: 1G (Green), Link/Act. (Yellow)
Data Rate	100Base-TX (1000Mbps), Auto Configuring Port 1: 10/100/1000BaseTX Port 2: 10/100/1000BaseTX
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
Services Compliance	IPv4 Type of Service (TOS) & Differentiated Services (Diff-Serv) IPv6 Traffic Class
VLAN Support	4,096 Addresses
Services	Up to 10,000 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	0.97x1.76x4.12 in., 2.5x4.5x10.5 cm (HxWxL)
Weight	0.26 lb (117g)
Housing Material	Extruded Aluminum

\*Specifications subject to change without notice.

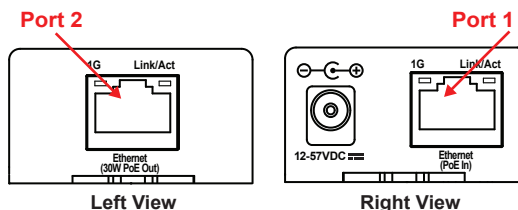
## Ordering Information

Part No.	Description
<b>Vi3602</b>	Ethernet 1G PSE 30W Repeater

### Related Products

Part No.	Description
<b>Vi3002</b>	Ethernet and 60W PoE Repeater
<b>Vi3002W</b>	IP67 Weatherproof Ethernet and 60W PoE Repeater
<b>Vi30002U</b>	Ethernet and 90W PoE Repeater

## Status LEDs



LED	Color	Status	Function
Power	Green	OFF	The Vi3602 is off
		ON	The Vi3602 is on
30W PoE	Green	OFF	Port-2 PoE is off
		ON	Port-2 is delivering PoE
		FLASHING	PoE voltage is out of range
Port 1, 2	Green	OFF	10/100Mbps connection when linked
	Green	ON	1000Mbps connection
	Orange	OFF	No link
	Orange	ON	Link flashes with activity

## Limited Lifetime Warranty

Vigtron, Inc. warrants that all Vigtron 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 Vigtron 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 Vigtron dealer.

Warranty will only be provided for as long as the original end user purchaser owns the product. Warranty is not transferrable. At Vigtron'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 Vigtron, 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 Vigtron, Inc. or an approved agent will void this warranty. Vigtron, 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 Vigtron, 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 Vigtron, Inc. All defective Products should be returned to Vigtron, Inc. with shipping charges prepaid. No collect shipments will be accepted.

## Drawings

