



The Vigitron MaxiiNet™ Vi30105U is a high-performance, fixed L2 managed 6-port 1000Mbps PoE switch, designed to meet the increasing demand for seamless, high-speed Ethernet transmission. The Vi30105U supports both input PoE and local DC power sources, delivering up to 90W of PoE per port on 4 ports to power PoE devices.

The Vi30105U integrates a MSA SFP-compliant flexible fiber uplink port for distances up to 80 km as well as a 1G copper port uplink.

With its ability to operate in temperatures ranging from -40°C to 70°C, the Vi30105U performs reliably in extreme conditions. It includes fixed managed Layer 2 functions such as 802.1p QoS, support for 2K MAC addressing, learning and aging capabilities, and a non-blocking switch fabric to maintain efficient and reliable data transmission.

The Vi30105U is MegaPixel Certified (MPC™) and has been rigorously tested for compatibility with major camera manufacturers and network packet performance standards, ensuring high-quality, error-free operations. It is housed in a compact and robust design with flexible DIN Rail, Desktop, and wall mount capability.

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.
- 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.



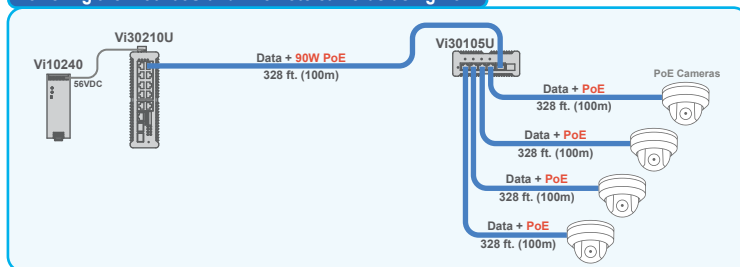
WARNING! - To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. This apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

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

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

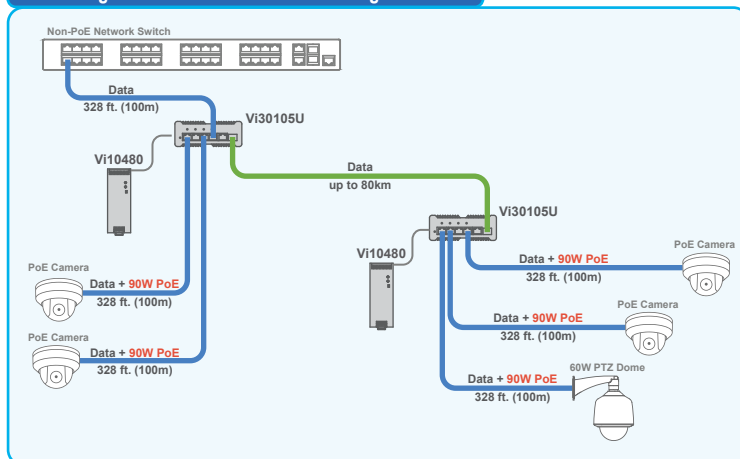
Application Drawing

Powering the Vi30105U and 4 remote cameras using PoE



The Vi30105U is a PoE powered switch that can be used to power up to four cameras using PoE.

Connecting several Vi30105Us to make a large network



The Vi30105U can be used to connect to another Vi30105U or any IP device at distances up to 80km over fiber optics.

Installation

You can use either PoE or an external power supply to power the Vi30105U.

Powering with PoE:

- Connect the network cable coming from the PoE switch or PoE Midspan to the UTP uplink port of Vi30105U.

Powering with External Power Supply:

- Select a 52-57VDC approved power supply with enough power for your application.
- Connect the power supply to the input power terminal block by following marked polarity.

You can use either the UTP or Fiber uplinks but not at the same time.

Fiber Uplink:

- Plugin the SFP to the SFP socket of Vi30105U.
- Connect the fiber cable to the SFP.

Note: The SFP must be the same types at both ends of the fiber cable and must match the fiber cable requirements.

UTP Uplink:

- Connect IP/PoE devices to the uplink port on the Vi30105U's front panel using RJ45/6 Category cables.

Data Ports:

- Connect IP/PoE devices to the four ports on the Vi30105U's front panel using RJ45/6 Category cables. Each ports will be able to provide up to 90W PoE.

PoE Power is allocated based on the required port power up to 90W starting with Port 1 having the highest priority. Once the total sum of the PoE power is allocated no more power will be available to remaining ports.

Technical Specifications*

Electrical

Ethernet Interface	Copper: Standard 100BaseT/1000BaseT Fiber: 1000BaseT, SFP
UTP	100 Ohm +/- 20%, up to 328 ft. (100m)
Input PoE Source	802.3af (15.4W), 802.3at (30W), 802.3bt (90W)
Supported PoE Loads	802.3af (15.4W), 802.3at (30W), 802.3bt (90W) and most non-standard PoE up to 72W
Power Supply	57VDC @ up to 400W
Status LEDs	Power: Green Ethernet Traffic, Link: Green 1G Ethernet: Orange PoE Active: Green
Connectors	Fiber: MSA compliant SFP socket Ethernet Interface: 5 x RJ-45 connector Power: 2-pin Pluggable Terminal Block
RFC	2544 TCP/IP Packet Transmission 768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet
PoE Compatibility	IEEE 802.3af, at, bt up to 90W
Jumbo Frame	Up to 9,600 bytes

Regulatory

FCC	Part 15, Subpart B, Class B 2010
Emissions	EN 5502:2006+A1:2007 EN 61000-3-2:2006+A1:2009+A2:2009 EN 55024:1998+A1:2001+A2:2003
Safety	CE
Environmental	RoHS, WEEE

Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: -40°C to +70°C Storage: -40°C to +85°

Mechanical

Dimensions	1.8x4.8x4.2 in., 4.6x12.2x10.6 cm (HxWxL)
Weight	1.03 lb (470 g)
Housing	Aluminum, DIN Rail, Wallmount, Deskmount

*Specifications subject to change without notice.

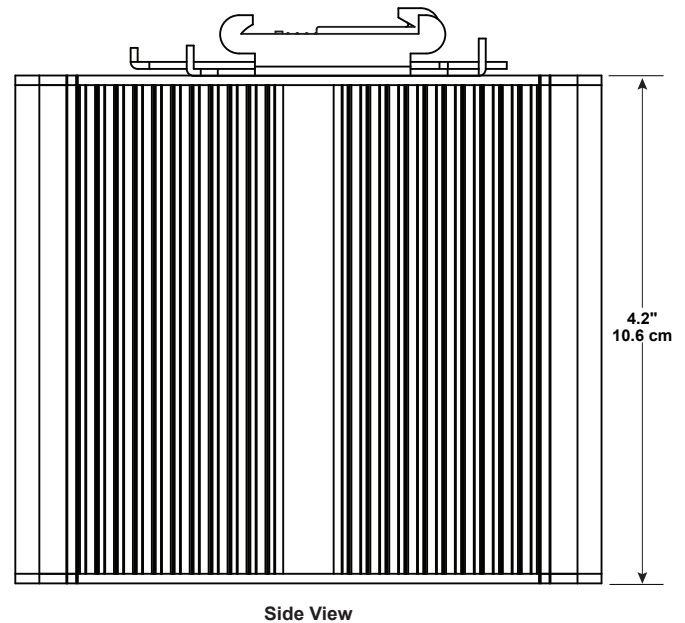
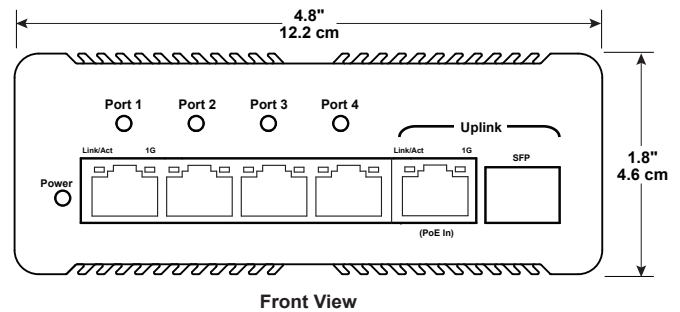
Total PoE Power Derating

Ambient Temperature	-40°C to +40°C	55°C	60°C	70°C
Total PoE output	360W	300W	240W	180W

Ordering Information

Part No.	Description
Vi30105U	5-port PoE Layer 2 PoE Powered PoE Switch

Drawings



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.