

Vi30105U

Preliminary

6-Port 1G 802.3bt 90W PoE Powered PoE Switch

Features

- 6-port Layer 2, 1G PoE powered PoE switch
- Compliant to major high power non standard PoE powered devices
- 100/1000Mbps network speeds, auto sensing
- Can be powered from a remote 802.3bt PoE source and provide PoE power to 4 ports
- Each port can power 802.3bt PoE loads up to 90W as well as most non-standard PoE up to 72W
- SFP fiber port for integration to existing fiber supporting long distances up to 80Km
- Automatic PoE port priority allocation
- Over current shut down protection if the allocated PoE budget is exceeded
- Certified (MPC™) high data rate for virtual loss free transmission of cameras
- Type tested to RFC 2544 TCP/IP network bandwidth packet transmission standards
- Type tested for -40°C to +70°C operating temperature range *
- Complies with major IEEE standards and RFC network protocols for UTP, TCP/IP, HTTP/HTTPS
- Provides fixed Layer 2 network switch functionality



Applications

- Can provide data and power to multiple cameras using a remote Midspan or PoE Switch
- Perfect solution for multi-Sensor cameras requiring high bandwidth and high power
- Cost effective solution for multiple cameras transmission
- Transmits multiple high megapixel cameras over a single cable to reduce installation costs

The Vigtron 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.

The Vi30105U reduces installation costs while delivering reliable performance. Its advanced features and robust design make it the best choice for network security and industrial applications requiring dependable data and power solutions.

* See Derating Chart

Technical Specification*

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

Optional Accessories

- Vi10120: 57VDC, 120W Power Supply
- Vi10240: 57VDC, 240W Power Supply
- Vi10480: 57VDC, 480W Power Supply
- Vi0012: 12VDC 1A Power Supply for non-PoE operation

*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

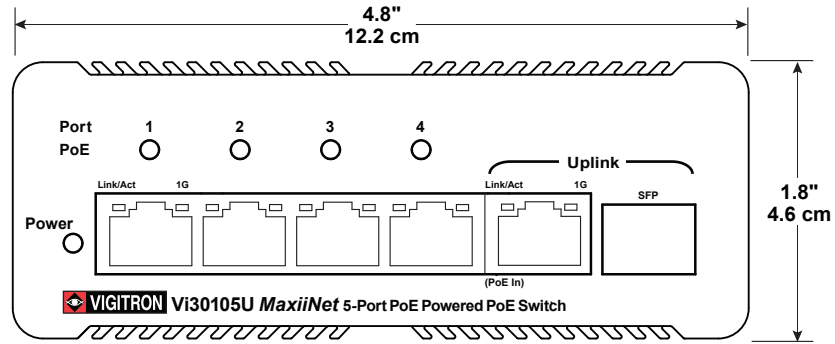
Ordering Information

Part No. Description

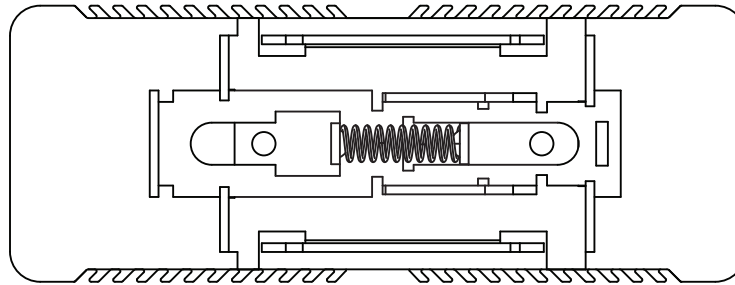
Vi30105U	5-Port 1G 802.3bt 90W PoE Powered PoE Switch
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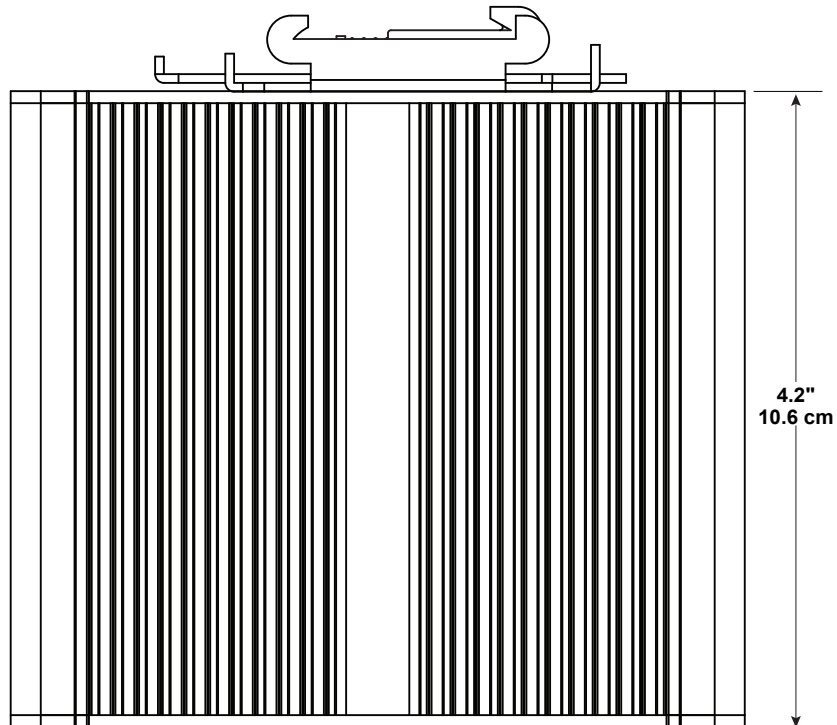
Mechanical Drawings



Front View



Rear View

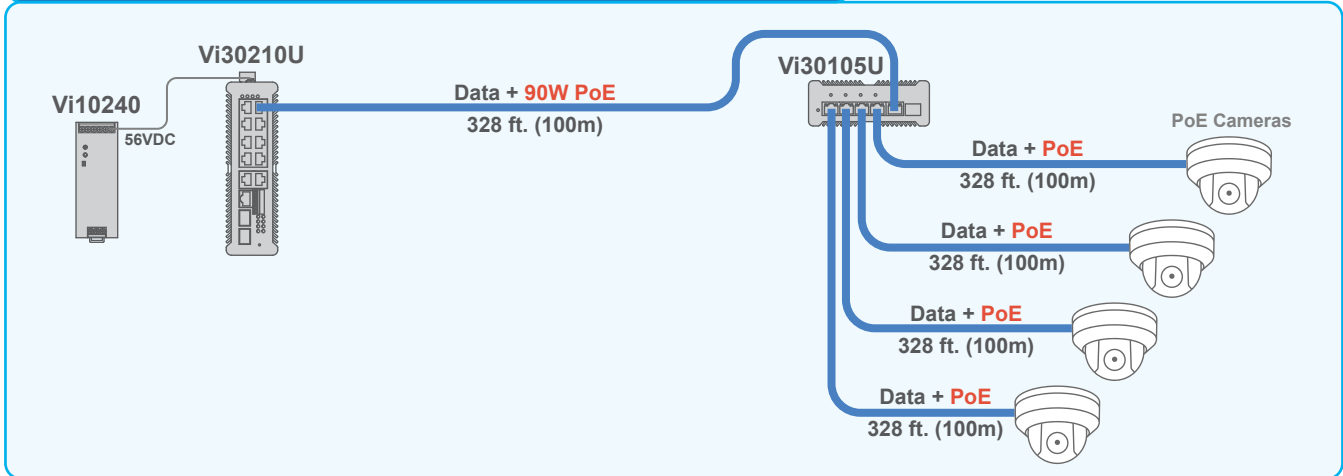


Side View

Application Drawings

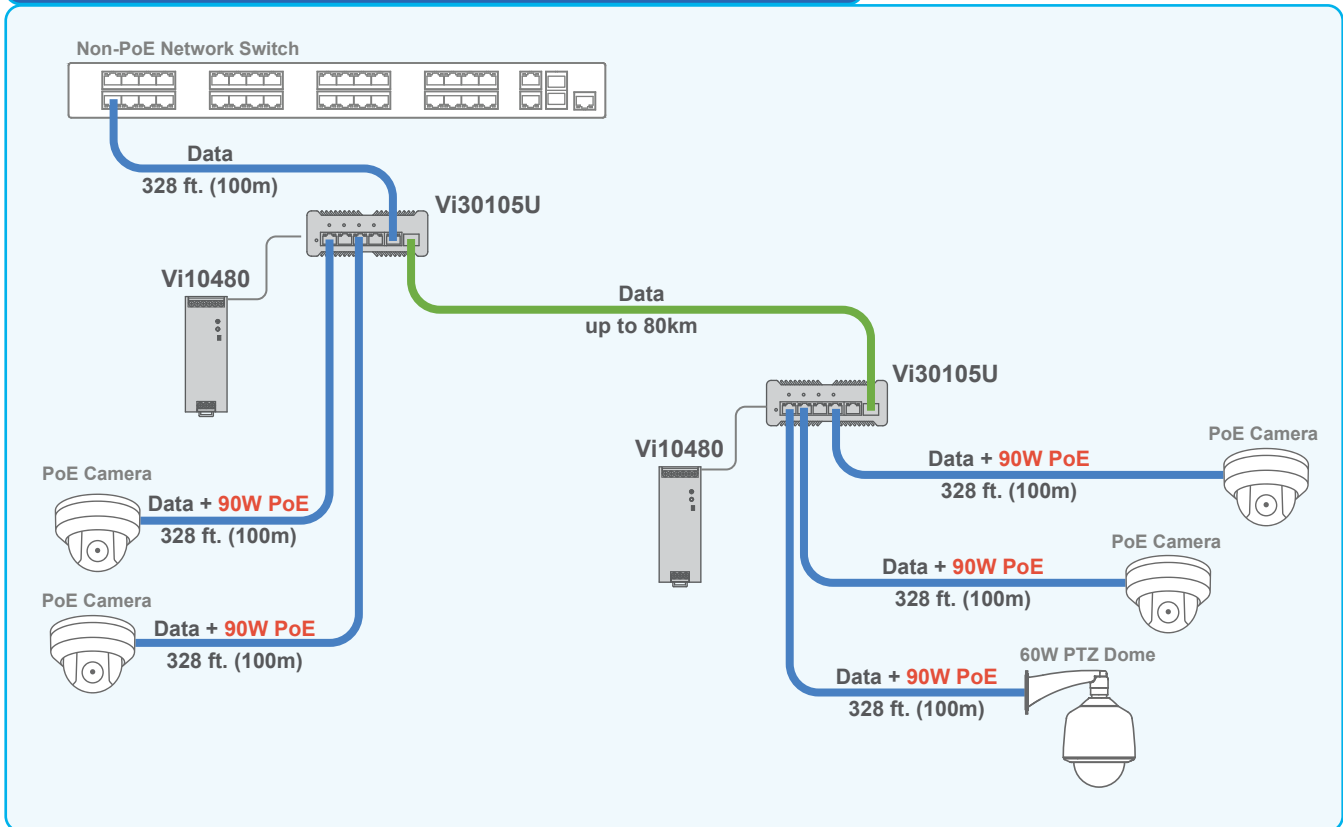
— Fiber Optic
— Cat 5/6

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.

