

Vi30005W Hardened 5-Port 1G PoE Powered PoE Switch Installation

MaxiiNet™
PoE Switches



Vigatron's MaxiiNet™ Vi30005W is a hardened fixed managed 5-port 1000Mbps PoE switch with IP67 construction that can operate at -40°C to 75°C. The Vi30005W can be powered by Uplink PoE sources up to 74W or locally by the Vi1120 to provide 802.3at PoE up to 37W to each port. The Vi30005W's plug-and-play eliminates the need for IP addressing. The four Ethernet port can be directly connected to any IP address and will pass that device's IP address. Network pre-programmed switching features include 802.1p QoS priority queuing, port based VLAN, MAC addressing up to 2K full and half duplex operation compliant to 802.3x standards and automatic address learning and aging.

The Vi30005W takes full advantage of high bandwidth maintaining 10/100/1000Mbps transmission with minimum transmission error and latency by employing full layer 2 network switching technology. The Vi30005W can be used to connect to multiple remote network devices such as Megapixel IP cameras, VoIP telephone systems, or wireless transmitters.

In addition to a 1G uplink its Fiber uplink port can accept any MSA compliant fiber SFPs to transmit four cameras over distance up to 80Km.

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 Vigatron 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 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

Vi30005W Powered by 60W PoE:



Vi30005W Powered by 60W PoE:



IP Camera-end Installation

UTP Uplink w/ Remote PoE:

- Connect the network cable coming from a 60W PoE midspan to the uplink Ethernet port at rear of Vi30005W.
- Plug in the IP/PoE devices to the four ports on the Vi30005W's front panel.

PoE Power is allocated based on the required port power up to 37W 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.

UTP Uplink w/ Local Power Supply:

- Connect the network cable coming from the PoE switch or PoE midspan to the uplink Ethernet port at rear of Vi30005W.
- Plug in the IP/PoE devices to the four ports on the Vi30005W's front panel.
- Connect the Vi1120 power supply to the Vi30005W power connector.

Individual ports will be able to provide up to 37W.

PoE Switch/PoE Midspan end Installation

UTP link:

- Connect the network cable coming from the Vi30005W Uplink port to one of the Ethernet ports of the PoE switch or PoE Midspan.

Technical Specifications*

Electrical

Ethernet Interface	Standard 10/100/1000BaseT
Fiber Optics	1G, SFP socket, depends on the SFP & fiber type
Power Supply	48-57VDC @ 2A min. for 802.3 at 37W max. / port
Connectors	Ethernet Interface: 5 x RJ-45 Waterproof Connectors Power: Waterproof Round Power Connector
RFC	2544 TCP/IP Packet Transmission
Compatible with	IEEE 802.3af PoE, IEEE 802.3at PoE
RFC	768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet

Environmental

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

Mechanical

Dimensions	1.84x5.42x10.5 in., 4.6x13.8x26.7 cm (HxWxL)
Weight	0.70 lb (317.5 g)
Material	ABS, IP67

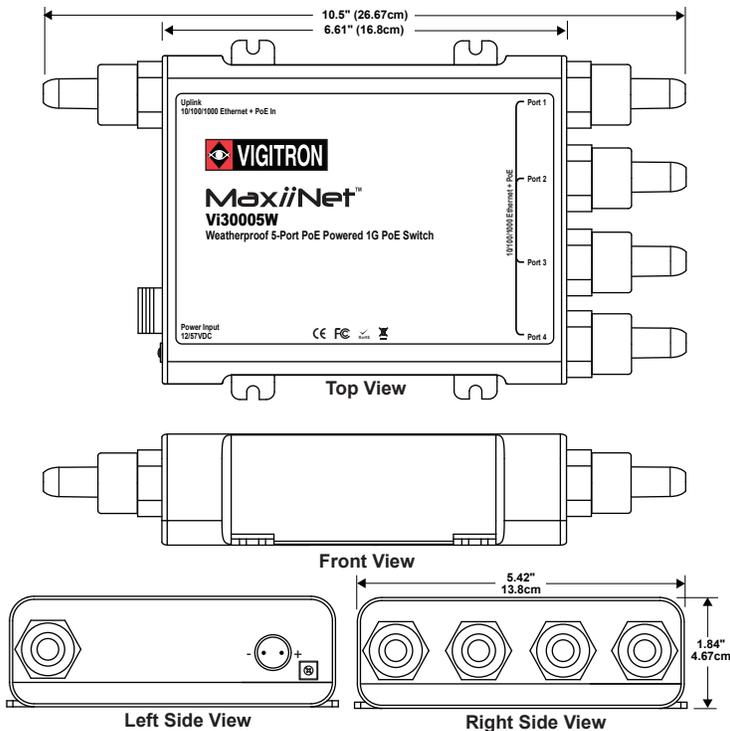
Accessories

56VDC, 120W External power supply (optional)

*Specifications subject to change without notice.

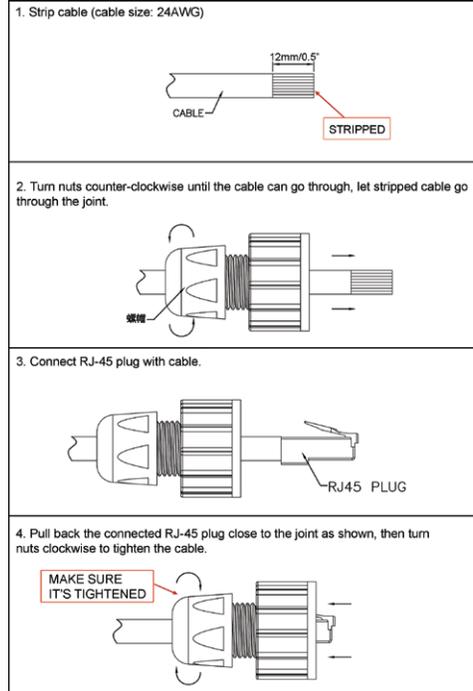
**Vigtron "W" are designed as self contained to comply with specific environmental standard. Operating in conditions other than free air with proper ventilation will affect performance and may void warranty.

Drawings



RJ-45 Installation Instruction

Installing cable and connector is critical for maintaining the IP 67 performance of this product. Please follow instructions carefully.



Ordering Information

Part No.	Description
Vi30005W	5-Port IP67 PoE Powered PoE Switch
Vi1120	56VDC, 120W Power Supply

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.



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