Vi50101 Single Port Mini PoE Powered 1G Fiber Media Converter Installation Manual

MaxiiFiber™

The Vigitron MaxiiFiber Vi50101 is a compact, PoE-powered mini fiber media converter that seamlessly connects copper and fiber optic networks for Ethernet transmission up to 80 km. It is designed for demanding applications and supports multiple installation methods (in-line, wall-mounted, DIN Rail) and includes all necessary adapters.

Built for harsh environments, it operates in a wide temperature range (-10°C to +70°C) and supports jumbo frames (9000 bytes), making it ideal for MegaPixel IP cameras, bandwidth-heavy applications, and long-distance connections. Whether upgrading legacy systems, linking buildings, or enhancing security, the Vi50101 offers a cost-effective, reliable, and future-proof solution.

Important Safety Warning

- Read these instructions.
- 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 tempera ture exceeds 70°C.
- Make sure that the PoE source is 802.3 af/at compliant.
- 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 plugs, 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 and does not operate normally.
- The RJ45 connector is used as the disconnect device.

⚠ 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.

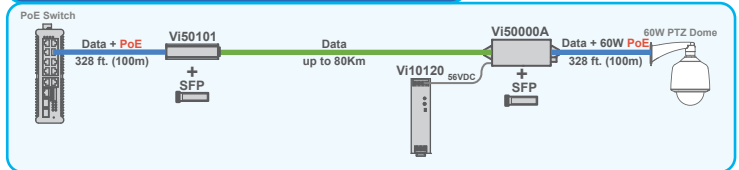| ⚡	**CAUTION**	⚠
	RISK OF ELECTRIC SHOCK **DO NOT OPEN**	

CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
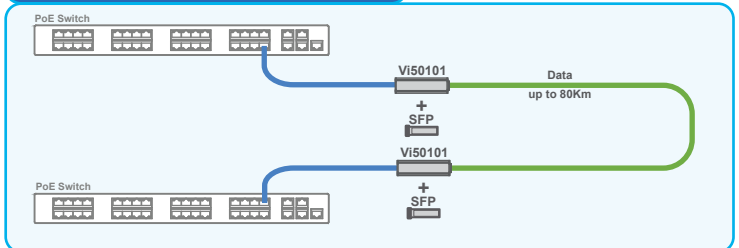
Application Drawing

Cat 5/6
Fiber Optics

Connecting High Power PoE Cameras over Fiber cables

The Vi50000A is used with the Vi50101 for long distance high bandwidth applications. The Vi50000A provides up to 60W PoE power to meet the highest PTZ dome power requirements.

Connecting Network Switches at long Distances

With 1000Mbps (1G) bandwidth, the Vi50101 is the perfect solution for connecting PoE switches without fiber ports over long distances.

Mounting Configuration

There are 3 ways to mount the Vi50101 based on your installtion requirement:
- **Inline Configuration:** Suitable for direct network connections.
- **Wall Mount Configuration:** Attach the wall brackets for wall installation.
- **DIN Rail Configuration:** Attach the DIN Rail adapter for rack mounting.

IP Camera-end Installation

- Insert a suitable 1000Mbps SFP into the SFP socket of the Vi50000A. The SFP needs to match the specification of the fiber optics cable.
- Connect the fiber connector of the optical wire to the SFP.
- If the IP Camera is non-PoE use an approved 12VDC power adapter to power the Vi50000A.
- If the IP Camera is a PoE enabled use the Vi0017, Vi1120, or another approved 48VDC power adapter to power the Vi50000A.
- Connect the IP camera's RJ45 connector to the "10/100/1G BaseT Ethernet" port of the Vi50000A using a standard Cat5/6 cable of maximum 100m in length.

PoE Switch-rnd Installation

- Insert a SFP module to the SFP socket of Vi50101.
- Connect one end of the long fiber optic cable to the SFP module.
- Connect the RJ45 connector of the Ethernet PoE switch to the RJ45 connector of Vi50101 using a standard Cat5/6 cable of maximum 328 feet (100 m) in length.

The Ethernet link, Fiber link, activity LEDs should be "ON" and "Blink" to indicate the status of each port.

VIGITRON **The Smart Choice for Transmission Solutions** www.vigitron.com

Electrical

Ethernet	Ethernet:10/100/1000Base-T Fiber: 1000Mbps
Fiber Compatibility	Depends on cable and SFP type
Distance	Depends on cable and SFP type
Connectors	Ethernet: RJ-45 Fiber: SFP socket compliant to MSA standards
Status LEDs	Ethernet: Link/Traffic (Orange) Fiber: Link/Traffic (Green)
PoE Compatibility	IEEE 802.3af/at
Power Consumption	1.4W
Data Interface	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
Standards	IEEE 802.3 10/100/1000 Base-T IEEE 802.3u 100Base-TX IEEE 802.3af, IEEE 802.3at
Regulatory	CE, WEEE, RoHS
Jumbo Frame	Up to 9,000 bytes

Environmental

Humidity	0% to 95%, non-condensing
Temperature	Operating: -10°C to +70°C Storage: -40°C to +85°C

Mechanical

Dimensions	1x1x3.3 in., 2.6x2.5x8.4 cm (HxWxL)
Weight	0.152 lbs (70g)
Housing Material	Extruded Aluminum

Accesories

Wallmount Adapter

DIN Rail Adapter

* Specifications subject to change without notice.
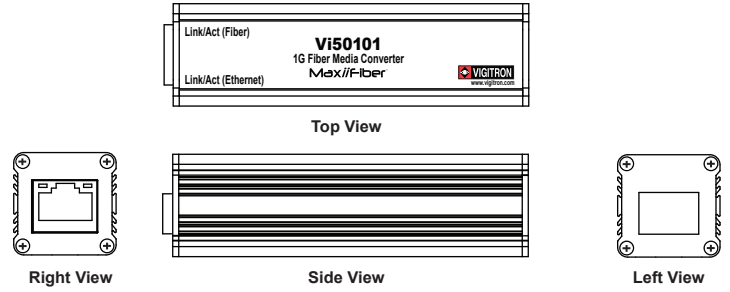
Status LEDs

Status LEDs

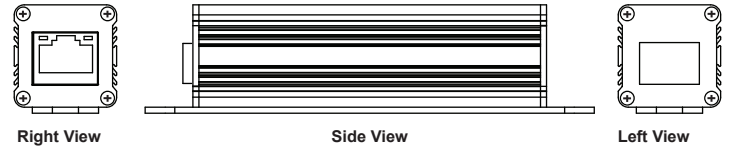| LED Name	Color	Status	Function
Fiber Port	**Green**	**OFF**	Fiber link is off
		ON /FLASHING	Fiber activity
Ethernet Port	**Orange**	**OFF**	No link
		ON /FLASHING	Link flashes with activity

Important Notes:

- The SFP port is fixed at 1000Mbps

- There is no standard method for reading SFP bandwidth. Different SFPs may not sense the difference between 100Mbps and 1000Mbps. We suggest using the SFP designed for the primary ports bandwidth.
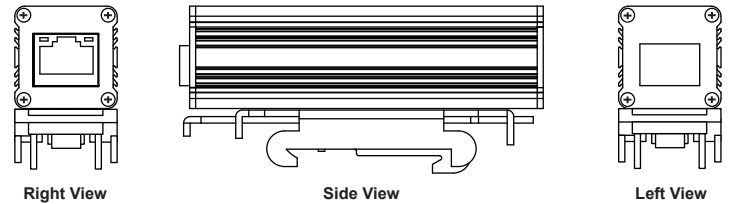
Installation Configurations

Inline Configuration

Vi50101
1G Fiber Media Converter
Max//Fiber

Link/Act (Fiber)
Link/Act (Ethernet)

Top View

Right View — **Side View** — **Left View**

Wall Mount Configuration

Right View — **Side View** — **Left View**

DIN Rail Configuration

Right View — **Side View** — **Left View**
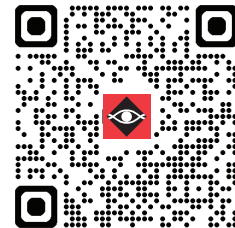
Ordering Information

Ordering Information

Part No.	Description
Vi50101	1-Port PoE Powered Mini Fiber Media Converter

Related Products

Part No.	Description
Vi50000A	1-Port 100/1G Ethernet Media Converter, af/at 60W PSE
Vi50000U	1-Port 100/1G Ethernet Media Converter, af/at/bt 60W PSE
Vi50001	1-Port 100/1G Ethernet Media Converter powered by PoE/12VDC
Vi50004	4-Port 100/1G Ethernet Media Converter, Powered by PoE/12VDC

Limited Lifetime Warranty

Scan the QR code to view the warranty details.

VIGITRON

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