

Vi50101

Single Port Mini PoE Powered 1G Fiber Media Converter

Features

- Supports 10/100/1G Base-T Ethernet over long-distance fiber cables with auto bandwidth control
- Compatible with SFP modules for various fiber types and distances
- Powered by PoE, ensuring a simple and efficient installation process
- Seamlessly integrates with existing PoE network switches
- Achieves transmission distances of up to 80 km, depending on the fiber cable and SFP type
- Transmits Jumbo Frames up to 9000 bytes, ideal for large Megapixel camera data
- Fully compliant with industry networking standards
- Reliable operation at extended temperatures from -10°C to +70°C
- Flexible mounting options: In-line, Wall-Mount, or DIN Rail (adapters included)



Applications

- Extend network connectivity between buildings or remote locations where copper is impractical
- Establish long-distance links for high-bandwidth devices like Megapixel cameras
- Provides a safe connection for outdoor applications with a high risk of lightning.
- Support perimeter security in areas such as buildings, fences, and parking lots.

The Vigitron MaxiiFiber Vi50101 is a compact yet powerful mini fiber media converter that seamlessly bridges between copper and fiber optic networks. Engineered for demanding network applications, it enables Ethernet data transmission over fiber cables for distances of up to 80 km, ensuring reliable connectivity for long-range installations.

The Vi50101 fiber media converter is PoE-powered, simplifying installation and making it an ideal choice for connecting IP devices in remote locations, harsh environments, or areas with existing fiber infrastructure. Its versatility allows for multiple installation methods, including in-line, wall-mounted, or DIN Rail setups, with all necessary mounting adapters included.

Built to withstand challenging conditions, the Vi50101 features a robust design, operates in a wide temperature range (-10°C to +70°C), and supports jumbo frames up to 9000 bytes. This makes it perfect for high-resolution IP camera deployments, bandwidth-intensive applications, and long-distance building-to-building connections.

Whether you need to migrate legacy systems, connect buildings, or enhance perimeter security, the Vi50101 mini fiber media converter offers a cost-effective, reliable, and future-proof networking solution.

Technical Specification*

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

Accessories

- Wallmount Adapter (included)
- DIN Rail Adapter (included)

* Specifications subject to change without notice.

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.

Ordering Information

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

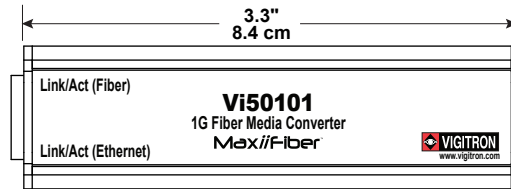
Related Products

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

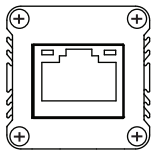


Mechanical Drawings

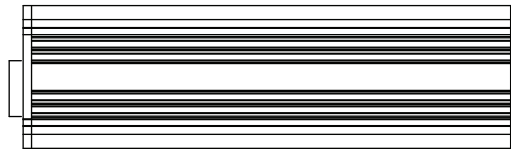
Inline Configuration



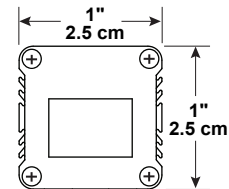
Top View



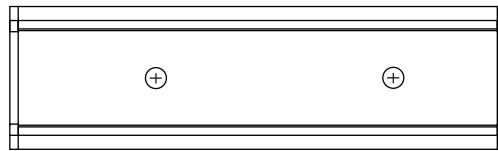
Right View



Side View

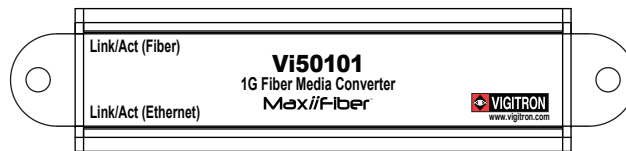


Left View

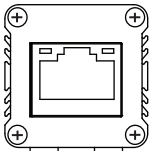


Bottom View

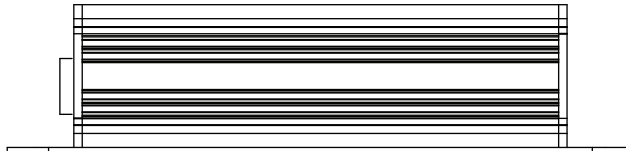
Wall Mount Configuration



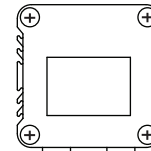
Top View



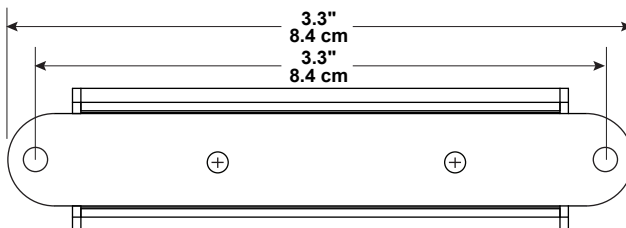
Right View



Side View



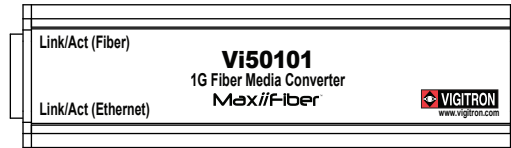
Left View



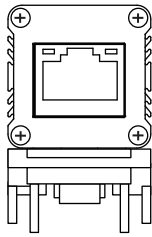
Bottom View

Mechanical Drawings

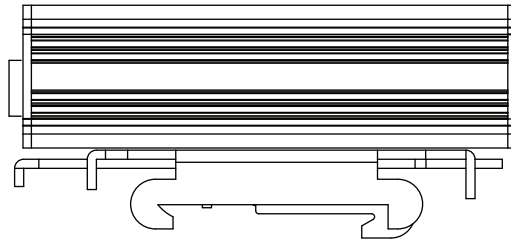
DIN Rail Configuration



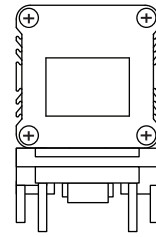
Top View



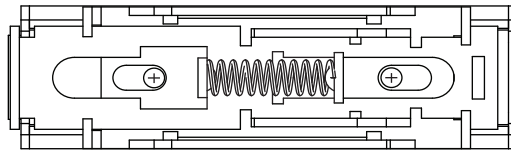
Right View



Side View



Left View

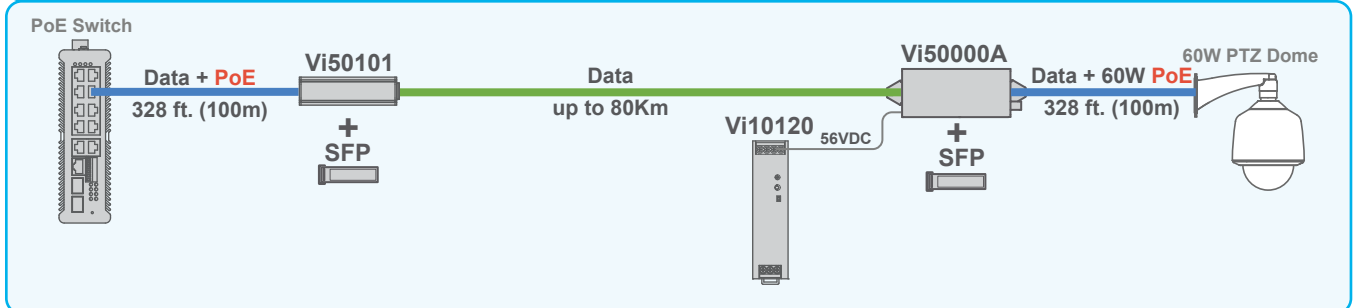


Bottom View

Application Drawings

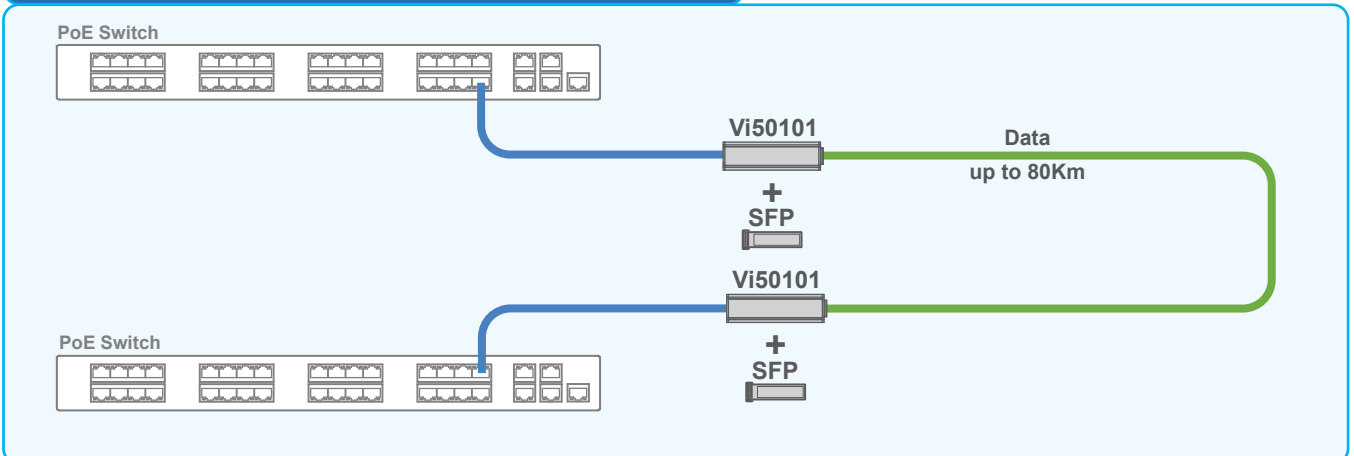
— Cat 5/6
— Fiber Optics

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.