

Vi5001

Fiber Media convertor with 30W PoE

Features

- Transmits Ethernet over Fiber Optic cables
- Uses Small Format Pluggable (SFP) to interface to a variety of fiber cables
- Able to provides up to 30W PoE power to the IP cameras
- Can interface directly to network switch fiber connections
- Depending on the type of fiber cable and SFPs, distances of up to 80Km can be achieved
- Compliant to all network standards
- Compliant to the Multi-Standards Agreement for SFP interface
- Extended temperature operation up to 0°C to +70°C



Applications

- Upgrading analog CCTV installations into digital systems
- Expanding networks in industrial environment
- CCTV system for casinos, airports, school campuses, and many more

Vigtron's Vi5001 is a single port media convertor that enables Ethernet signals to be transmitted over fiber optic cables. It enable UTP Ethernet to connect to fiber to meet long distance transmission requirement or where fiber is already installed. The use of SFP fiber modules results in compatibility with all major single and multimode fiber optic cables to achieve transmission distances depending on the cable and SFP. The Vi5001 also provides IEEE 802.3af/at PoE up to 30W to the connected IP camera when used with appropriate power supplies.

The Vi5001 is an ideal solution for converting existing analog fiber infrastructures to IP systems. It provides a unique, reliable, and cost effective solution to combine a variety of transmission methods to meet any application requirement.

Technical Specification*

Electrical

Ethernet	Standard 10/100Base, Auto-Negotiation, Auto MDI/MDI-X
Fiber Compatibility	Multimode Fiber Optical Cable: 50/125um Multimode Fiber Optical Cable: 62.5/125um Single Mode Fiber Optical Cable: 9/125um Wave Division Multiplexing
Distance	Based on cable and SFP
Fiber Connection	LC based on SFP
Connectors	Ethernet: RJ-45 Fiber: SFP socket compliant to MSA standards Power: Detachable Terminal block
Status LED	Power Ethernet: Link/Traffic, 10Mbps/100Mbps Fiber:
PoE Compatibility	IEEE 802.3af/802.3at up to 30W
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 10Base-T IEEE 802.3u 100Base-TX IEEE 802.3af, IEEE 802.3at
Power supply	12W @ 200mA for non-PoE operation 48-57V for PoE operation

Regulatory

Safety	CE, FCC
Environmental	RoHS, WEEE

Environmental

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

Mechanical

Dimensions	0.97x1.75x2.7 in., 2.5x4.5x6.8 cm (HxWxL)
Weight	0.17 lbs (78g)
Housing Material	Extruded Aluminum

*Specifications subject to change without notice.

Ordering Information

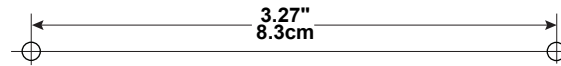
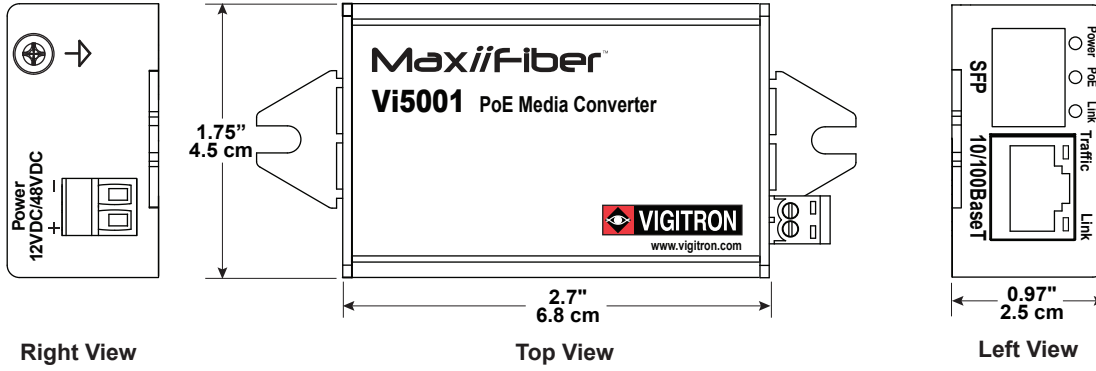
Part No.	Description
Vi5001	Single Port Media Converter with PoE Source

Related Products

Part No.	Description
Vi5004	4-Port Media Converter with PoE Source

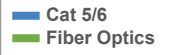


Mechanical Drawings

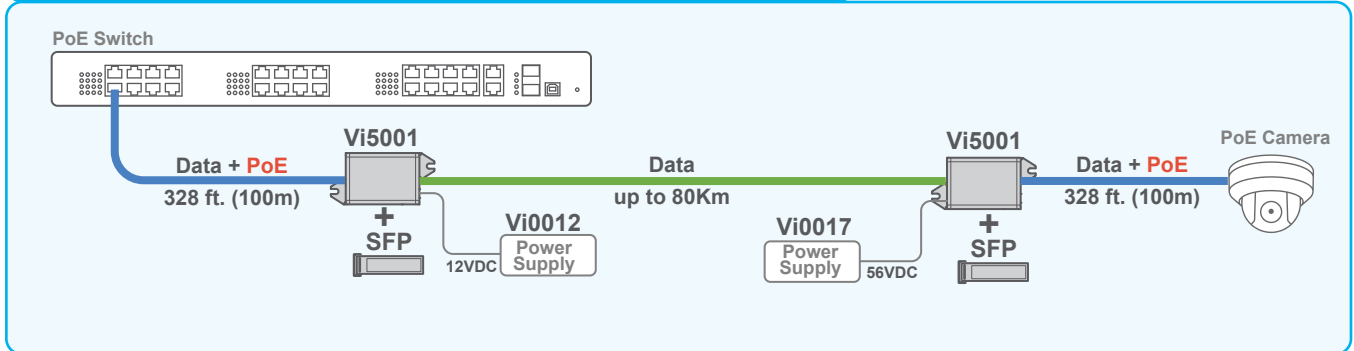


Mounting Pattern

Application Drawings

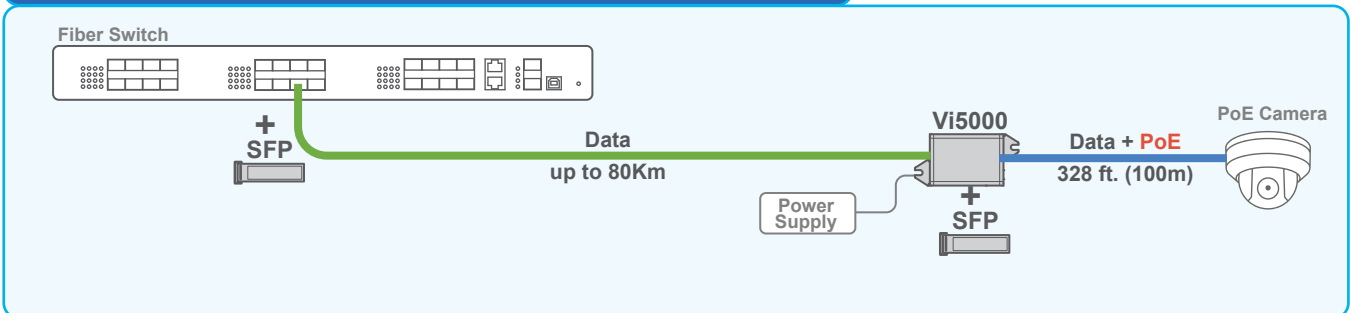


Connecting and powering IP Cameras over Fiber cables



The Vi5001s are used for long distance high bandwidth transmission applications. The Vi5001 provides up to 30W PoE power to meet the high power requirements of PoE cameras.

Connecting and powering IP Cameras over Fiber cables



By using the SFPs, the Vi5001 will be compatible with most installed fiber types and can be directly connected to SFP modules installed in network switches.