

Vi5001

Single Channel Ethernet to Fiber Media convertor with PoE PSE

Features

- Converts Fiber connections to Ethernet
- Uses Small Format Pluggable (SFP) to interface to a variety of fiber cables
- Provides up to 30W PoE power to the IP cameras
- Can interfaces directly to network switch connections.
- Depending on the type of fiber cable and SFPs distances of up to 80Km can be achieved
- Complies with all network standards
- Complies with the Multi-Standards Agreement for SFP interface
- Extended temperature operation up to -20°C to +70°C.



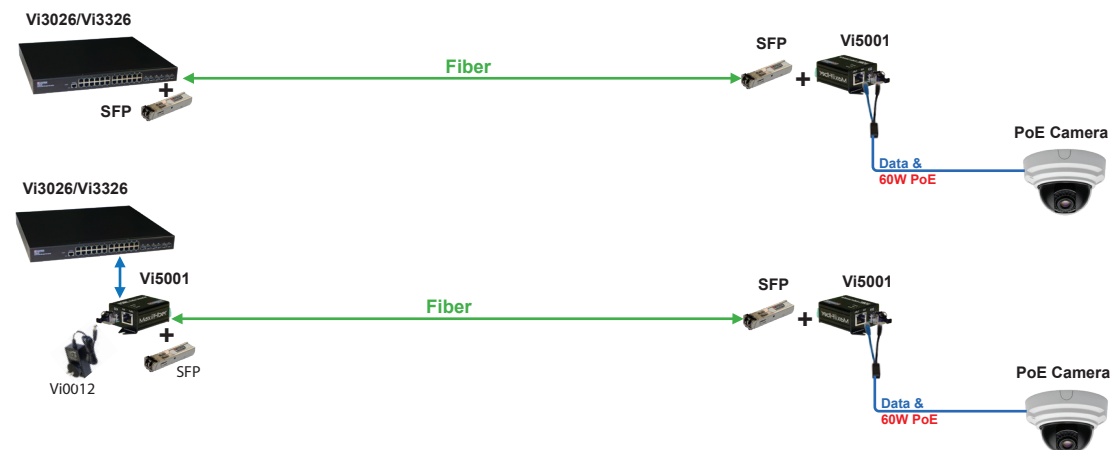
Applications

- 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 media convertor that enables Ethernet signals to be transmitted over different fiber optic cables. UTP connections with fiber to meet long distance transmission requirement and those where fiber is already installed. The use of SFP fiber modules results in compatibility with all major single and multimode fiber optics 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.

Application Diagrams



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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	Based on input power supply 802.3af/802.3at
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
Regulatory	CE, WEEE, RoHS

Power Requirements

Input Power	12W @ 1 amp (non-PoE operation) 15W or higher @ 48V in compliance for 802.3af
Output Power	15.4W (802.3af) Depending on power supply 30W (802.3at) Depending on power supply

Environmental

Humidity	0% to 95%, non-condensing
Temperature	Operating: -20°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

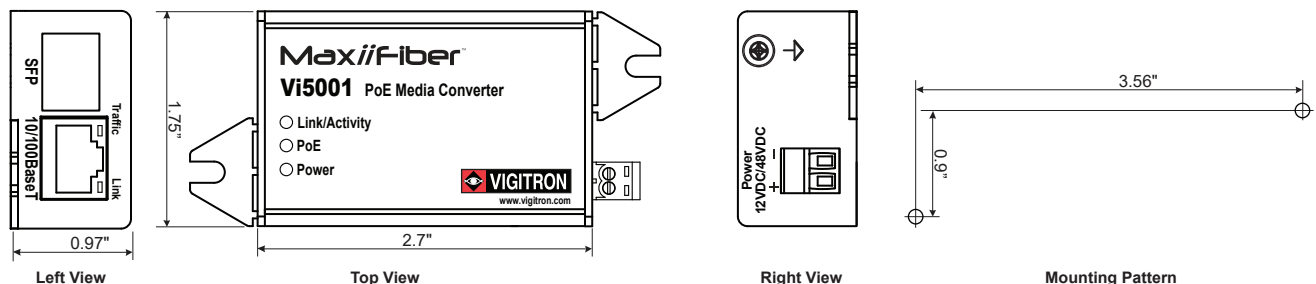
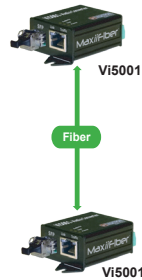
Ordering Information

Part No.	Description
Vi5001	Single Port Media Convertor with PoE Source
Vi0012	12W/12V/1A Power Supply
Vi0015	Combiner Cable for 60W PoE
Vi01310MM-H	1310nm Multi-Mode SX SFP Hardened Fiber Transceiver

Vigatron Model Applications

Model No.	Description
Vi3010	10-port Managed PoE Network Switch
Vi3026	26-port Managed PoE Network Switch
Vi3326	26-port Managed Network Switch
Vi3005	5-port PoE Hardened PoE Switch
Vi3305	5-port Extended UTP Hardened PoE Switch
Vi3405	5-port Extended Coax Hardened PoE Switch

System Configuration



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