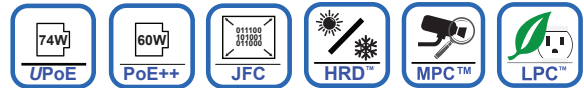


Vi50000A

Single Port 60W PoE 1G Ethernet Fiber Media Converter

Features

- Enables transmitting 1000Mbps Ethernet over fiber cables
- Provides up to 74W PoE to power PTZ domes, heaters, and blowers
- Uses Small Format Pluggable (SFP) to interface to a variety of fiber cables
- 74WUPoE
- Can interfaces directly to network switch connections.
- Depending on the type of fiber cable and SFPs distances of up to 80Km can be achieved
- Transmits Jumbo Frames up to 9600 bytes for handling the largest Megapixel cameras
- Complies with all network standards
- Complies with the Multi-Standards Agreement for SFP interface
- Extended temperature operation up to -30°C to +65°C.
- Auto bandwidth control 100/1000Mbps*



Applications

- Conversion of existing analog cameras over fiber system to IP devices
- Building-to-building communications
- Long distance connection of Megapixel cameras
- Provide safe connection for outdoor applications with high possibility of lightening
- Perimeter applications such as building, fence, and parking lots with the ability to use fiber as main transmission line

Vigtron's Vi50000A is a media converter that enables Ethernet signals to be transmitted over different types of 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 multi-mode fiber optics cables to achieve desired transmission distances depending on the type of cables and SFPs. The Vi50000A is powered from a local 12VDC or 48VDC power supply.

The Vi50000A provides up to 74W, UPoE, PoE to power PTZ domes with heaters and blowers, eliminating the need for high cost multiple power supplies, when it's connected to a 48VDC power supply.

The Vi50000A 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. Auto bandwidth sensing provides an efficient way to connect cameras to network switches and NVRs.

Technical Specification*

Electrical

Ethernet	100/1000Mbps for RJ45 1000Mbps for SFP fiber
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 1000Mbps
Connectors	Ethernet: RJ-45 Fiber: SFP socket compliant to MSA standards Power: Detachable Terminal block
Status LED	Power Ethernet: Link/Traffic, 100Mbps/1000Mbps Fiber
PoE Output Power	802.3af/802.3at, 74W UPoE
Power Supply	12VDC @ 3W with no PoE output 48-57VDC @ up to 74W with PoE output
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, IEEE 802.3z
Regulatory	CE, WEEE, RoHS
Jumbo Frame	Up to 9,600 bytes

Environmental

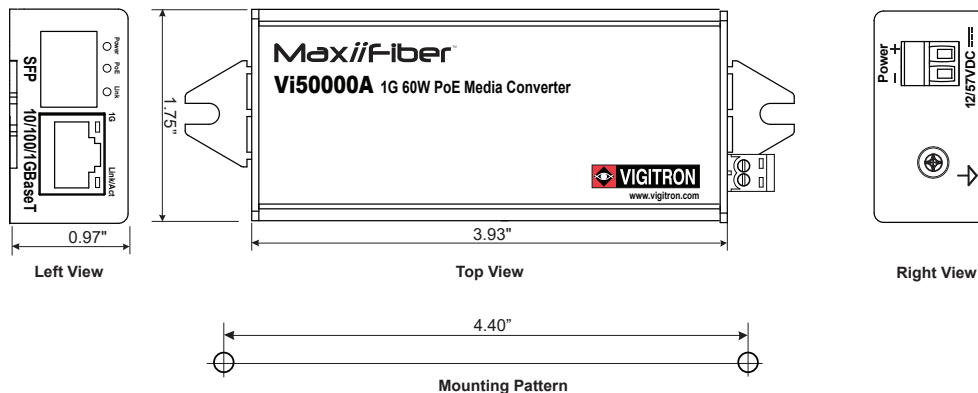
Humidity	0% to 95%, non-condensing
Temperature	Operating: -30°C to +65°C Storage: -40°C to +85°C

Mechanical

Dimensions	0.97x1.75x4.26 in., 2.46x4.45x10.8 cm (HxWxL)
Weight	0.235 lbs (107g)
Housing Material	Extruded Aluminum

*SFP port fixed at 1000Mbps

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



Ordering Information

PART No.	Description
Vi50000A	Single Port 1G Media Converter
Vi50001	Single Port PoE Powered 1G Media Converter
Vi0012	12VDC @ 1 Amp for non-PoE Applications
Vi0017	40W @ 48VDC Power Supply for 802.3at PoE Applications
Vi1120	Desktop Power Supply, 120W @ 56VDC
Vi00850MM-H	850nm MM SFP (multi-mode), Hardened
Vi01310SM-H	1310nm SM SFP (single-mode), Hardened

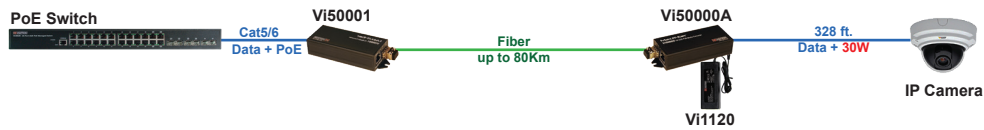
Status LEDs

LED Name	Color	Status	Function
Power	Green	OFF	Power is off
		ON	Power is on
PoE <i>(Vi50000A Only)</i>	Green	OFF	No PoE
		ON	PoE
Fiber Port	Yellow	OFF	Fiber link is off
		ON / FLASHING	Fiber activity
Ethernet Port	Green	OFF	10/100Mbps connect when linked
		ON	1000Mbps connection
Ethernet Port	Orange	OFF	No link
		ON	Link flashes with activity

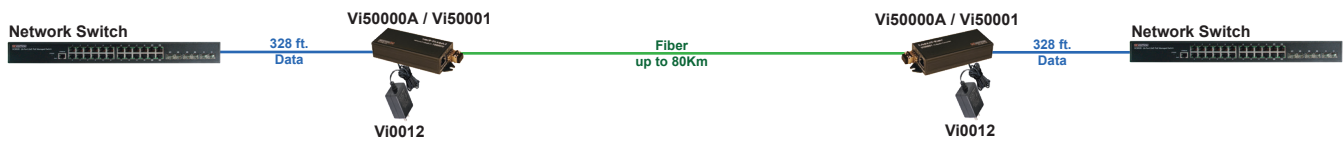


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Application Diagrams



By using the SFPs, the Vi50000A will be compatible with most installed fiber types and can be directly connected to SFP modules installed in network switches.



With 1000Mbps (1G) bandwidth, the Vi50000A / Vi50001 is the perfect solution for connecting network switches over long distances.