

Vi3004

4-Port Fiber to Ethernet Layer 2 Network PoE Media Converter

PRELIMINARY

Features

- 4-port layer 2 network switch media converter
- 2-port fiber to 2-port Ethernet copper media converter
- Mix single cable runs from fiber to copper wiring as single transmission cable runs
- Designed for easy conversion of analog to IP
- Use existing 120VAC or 240VAC to provide up to 60W PoE for powering PTZ domes with heaters and blowers
- Single channel PoE up to 60W or 2 channels of PoE up to 30W each
- Provides MSA compliant SFP fiber output port for integration to existing fiber infrastructures and extreme long distance up to 80Km
- Jumbo Frame support Megapixel packet transmission to 10K bytes
- Intelligent power sensing automatically allocates port power based on the number of connected ports and individual camera power requirements
- Automatic PoE port priority allocation
- Over current shutdown protection if allocated PoE budget is exceeded
- Certified (MPC™) high data rate for virtual loss free transmission of cameras
- Type tested to RFC 2544 TCP/IP network bandwidth packet transmission standards
- Type tested for 0°C to +70°C operating temperature range
- Complies with major IEEE standards and RFC network protocols for UTP, TCP/IP, HTTP/HTTPS



Applications

- Upgrading existing analog CCTV installations to digital
- Cost effectively expanding networks by mixing fiber and copper wire runs
- CCTV system for casinos, airports, school campuses, and many more

Vigitron's MaxiiNet™ Vi3004 provides solutions for upgrading existing analog system to fiber, converting or adding Ethernet UTP cabling to existing fiber runs, or both. With full layer 2 network switching, up to 60 watts PoE and 1G bandwidth, the Vi3004 is a cost effective and reliable solution for any security application.

The Vi3004 is a 4 port layer 2 network switch and fiber to copper media convertor design for multiple applications and providing significant installation cost reduction. Powered by either 120 VAC or 240 VAC, the Vi3004 can be used in most existing CCTV applications without the need of replacing existing power supplies especially for parking lot and perimeter applications. It offers unique ability to install or upgrade any combination of single transmission lines with fiber, copper, or both and connect individual drops of fiber, copper or both along with providing PoE up to 60 watts.

The Vi3004 is MegaPixel Certified (MPC™), type tested to network packet performance standards, and major manufacturer compatibility tested to assure you error free, quality operations with the highest megapixel cameras. Fixed managed L2 functions include 802.1p Qos, support of 2k MAC addressing, learning, aging, and a non-blocking switch fabric making the Vi3004 the perfect solution for connecting multiple network switches over fiber, copper, or both. Installation cost savings, proven performance, and major camera manufacturer compatibility all go into making Vigitron's MaxiiNet™ Vi3004 an ideal solution for standard distance data and power transmission.



The Smart Choice for Transmission Solutions



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Technical Specification*

Electrical

Electrical Interface	Standard 100BaseT/1000BaseT/1000BaseFX
Fiber	MSA compliant SFP sockets
Power Source	120VAC/240VAC, 50-60Hz
Status LEDES	Power: Ethernet: Link: Traffic: Bandwidth 10Mbps: 100Mbps: 1000Mbps:
Connectors	Fiber (x2): MSA compliant SFP socket Ethernet (x2): RJ45 connector Power: IEC 320-C14 Inlet
PoE Standards	IEEE 802.3af IEEE 802.3at 74W compliant to 802.3 PoE standards
Network Switch Standards	Layer 2
Jumbo Frames	10,000 Bytes

Regulatory

FCC	Part 15, Subpart B, Class B 2010
RFC	2544 TCP/IP Packet Transmission 768 UPD, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet
Emission	EN 5502:2006+A1:2007 EN 61000-3-2:2006+A1:2009_A2:2009 EN 50024:1998+A1:2001+A2:2003
Safety	CE
Environmental	RoHS, WEEE

Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: 0°C to +40°C (tested under NEMA-TS2 testing) Storage: -30°C to +85°C

Mechanical

Dimensions	1.9 x 3.45 x 7.7 in., 4.83 x 8.76 x 19.56 cm (HxWxL)
Weight	1.75lb (794g)
Housing	Aluminum

Ordering Information

Part No.	Description
Vi3004	4-port Layer Network Switch 2 port Fiber, 2 port Copper Media Convertor
Vi00850MM-H	850nm MM SFP (multi-mode), Hardened
Vi01310SM-H	1310SM SFP (single-mode), Hardened



Application Diagrams

