Vi3004LV

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 12/24VDC to provide up to 60W for power PTZ domes with heaters and blowers
- Combination of up to 60W and 30W for both copper ports
- 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™ Vi3004LV 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 Vi3004LV is a cost effective and reliable solution for any security application.

The Vi3004LV 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 24VDC/24VAC, the Vi3004LV 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 60W and a combination of 60W + 30W for power both PTZ and spot cameras.

The Vi3004LV 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 Vi3004LV 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™Vi3004LV an ideal solution for distance data and power transmission.

VIGITRON **The Smart Choice for Transmission Solutions** www.vigitron.com

DSVi3004LV_0317

Technical Specification*

Electrical

Electrical Interface	Fiber MSA Ports: 1000Mbps Fixed Copper Ports: 10/100/1000Mbps Auto sensing
Fiber	MSA compliant SFP sockets
Power Source	24VDC/24VAC, 1-6 Amps*

Status LEDS	Power:
	Ethernet:
	Link:
	Traffic:
	Bandwidth
	     10Mbps:
	     100Mbps:
	     1000Mbps:

Connectors	Fiber (x2): MSA compliant SFP socket Ethernet (x2): RJ45 connector Power: 2 Wire Terminal Strip
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: -30°C to +70°C (tested under NEMA-TS2 testing) Storage: -30°C to +85°C

Mechanical

Dimensions	1.9 x 3.45 x 5.6 in., 4.83 x 8.76 x 14.22 cm (HxWxL)
Weight	0.99lb (450g)
Housing	Aluminum

*Specifications subject to change without notice.

Ordering Information

Part No.	Description
Vi3004LV	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

*Output PoE will depend on input Voltage and Amperage

Application Diagrams

Network Switch — Fiber up to 80Km — Vi3004LV — Fiber up to 80Km — Vi3004LV — Fiber up to 80Km — Vi3004LV

Cat5/6 328 ft. Data + PoE

24VDC/24VAC

NVR — 328 Feet — Vi3004LV — 328 Feet — Vi3026 — Vi30005

24VDC/24VAC

328 Feet

60W PTZ Dome

Vi1120

328 Feet

328 Feet

Axis Q3709-PVE

NVR — 328 Feet — Vi50001 — Fiber up to 80Km — Vi3004LV — Fiber up to 80Km — Vi3004LV — Fiber up to 80Km — Vi3004LV

24VDC/24VAC

328 Feet

NVR

60W PTZ Dome

NVR

60W PTZ Dome

NVR

Vi30005

328 Feet

IP Cameras