Vi2804 / Vi2804P

MaxiiCollector[™] 4-port High-Speed Switch w/ Extended UTP and Coax Ethernet

Features

- Four port Fixed Managed network switch with Extended Ethernet outputs over UTP and Coax providing a single extended cable output for up to 4 cameras.
- Extends Ethernet beyond 328 (100m) limitation up to 3,000 feet (914m) over UTP cables or up to 5,000 feet (1,515m) over coax cables.
- Vi2804P supplies full 802.3/af/at to each port withouth power sharing using an external power supply.
- Can be powered using 12Volts DC, 24 Volts AC or PoE af/at (Vi2804 only).
- MegaPixel Certified (MPC™) high data rate, for virtual loss free transmission of cameras requiring Jumbo Frame transmission.
- Symmetric Bandwidth (SBW™) provides consistent upload and download with Virtual Zero Packet Loss (VZPL™) over total specified distance.
- Type tested to RFC 2544 TCP/IP network bandwidth packet transmission standards and Jumbo Frame Transmission.
- Supports one pair or four-pair UTP wires with built-in cable connectivity tester.
- Type tested for -10 C° to +75C° operating temperature range conforming to NEMA-TS2 testing standards.
- Complies with major IEEE standards and RFC network protocols for UCP, TCP/IP, HTTP/HTTPS.
- USA Designed and Manufactured.
- Limited lifetime warranty

Applications

- Upgrading analog CCTV installations into Digital systems
- Expanding Networks in industrial environment
- CCTV System for Casinos, Airports, School Campuses, and many more.



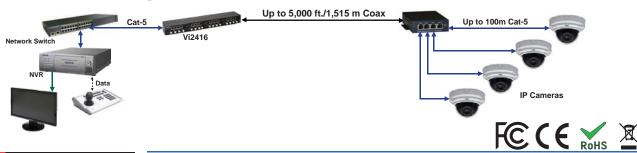
Vigitron's MaxiiCollector™ Vi2804 Fixed Managed four port network switch and network data extender brings new performance standards to the growing need for high speed transmission of high speed Ethernet over extended distances. Its unique Symmetric Bandwidth(SBW™) assures full bandwidth transmission is maintained over the entire operational distance for both uploads and downloads with Virtual Zero Packet Loss (VZPL™). Bandwidth assurance provides the ability to transmit multiple cameras on single camera runs with no information loss. Combined with the Vi2300 or Vi2400 series multi-port extenders, up to 64 cameras can be transmitted to a central location on just 16 cables.

The Vi2804 can be powered using standard camera 12 VDC, 24 VAC power supplies, or PoE eliminating the costs and complications of remote site power supplies. The Vi2804P provides 802.3af/at POE up to 30W to up to 4 cameras while maintaining all safety features to protect your network powered devices.

Type tested under NEMA-TS2 environmental standards for extended temperature operation from -10C° to +75C°, the Vi2804 is the perfect solution for extended distance data and power transmission for warehouses, parking lots, campuses, casinos, and many more. Best of all, the Vi2804 is MegaPixel Certified (MPC™), type tested to network packet performance standards, and major manufacturer compatibility tested to assure you error free, quality operations. Fixed managed L2 functions include 802.1p Qos, support of 2k MAC addressing, learning, aging, and a non-blocking switch fabric

Installation cost savings, proven performance, and major camera manufacturer compatibility all go into making Vigitron's MaxiiCopper™ Vi2804 your best choice for extended distance data and power transmission.

Application Diagram





The Smart Choice for Transmission Solutions

Technical Specification¹

Electrical

Ethernet Interface Standard 10/100BaseT

Ethernet Rate Dip switch selectable 10/100 Mb/s

Full speed / full duplex at maximum rated distance

Coax² 75 Ohm, 5000 feet (1,515m) at 10BaseT

1800 feet (548 m) at 100BaseT

UTP² 100 Ohm +/- 20%, 3,000 feet (914 m) at 10BaseT

2,100 feet (640 m) at 100BaseT

Power Supply Vi2804: 12 VDC, 24 VAC or POE @ 250 mA max.

> Vi2804P: 48VDC @ 1.5A min. for 802.3 af 15.4W / port 56VDC @ 2A min. for 802.3 at 25.5W / port

Status LEDs

Standard Ethernet: Traffic, Link

Extended Ethernet: Traffic, 10/100BaseT

Connectors Ethernet Interface: 4 x RJ-45 Connector

Extended Interface: Female BNC, RJ-45 Connector

Power: Pluggable Terminal Block

RFC 2544 TCP/IP Packet Transmission Compatible with IEEE 802.3af PoE, IEEE 802.3at PoE

768 UDP, 2068 HTTP, 793 TCP **RFC**

791 IP, 1783 TFTP, 894 IP over Ethernet

PoE Compatibility 802.3af Class 0,1,2,3

802.3at

Class 4

Jumbo Frame Support

Yes

Regulatory

FCC Part 15, Subpart B, Class B 2010

Emissions EN 5502:2006+A1:2007

EN 61000-3-2:2006+A1:2009+A2:2009

EN 61000-3-3:2008

EN 55024:1998+A1:2001+A2:2003

Rohs CE

Environmental

Humidity 0 to 95%, non-condensing Temperature Operating: -10°C to +75°C

Storage: -40°C to +75°C

Mechanical

Dimensions 1.2x3.75x4.97 in., 3.0x9.53x12.6 cm (HxWxL)

Weight 0.64 lb (290 g) Material Aluminum

Accessories

12 VDC wall-mount power supply (optional)

Mounting brackets

Ordering Information

| Part No. | | Description |
|----------|---------|--|
| | Vi2804 | 4-port Extended Distance Eth. Switch |
| | Vi2804P | 4-port PoE Extended Distance Eth. Switch |
| | Vi0012 | 12VDC, 1A Wall-mount Power Supply |

System Configuration



Data and PoE Distance²

Extended Ethernet over UTP (Cat-5)

| Data Rate | 4-Pair ⁴ (data + poe class 2) | 1-Pair (data only) |
|-----------|---|-----------------------|
| 10BaseT | 3,000 ft. (909 m) | 3,000 ft. (909 m) |
| 100BaseT | 2,100 ft. (636 m) | 1,000 ft. (303 m) |

Extended Ethernet over Coax (RG59U)

| Data Rate | Distance ³ (without POE) | Distance ⁴ (with POE) |
|-----------|--|----------------------------------|
| 10BaseT | 5,000 ft. (1,515m) | 3,000 ft. (909m) |
| 100BaseT | 1,800 ft. (546m) | 1,800 ft. (546m) |

- Specifications subject to change without notice.
 Distance figures are obtained using in house testing mirroring installations. Factors such as cabling, connections, use of power and environmental conditions may affect actual distances and should be taken into consideration.
- 3. Distance figures are based on RG59U Coax or Cat-5 cable and external power supply for extender
- Distance reflects Vi2804 powered by PTP[™] from a single source using either Vi2301 or Vi2401

