

Vi30406U

Hardened PoE Managed 6-Port, 2.5G Industrial 802.3bt 90W PoE Switch

Features

- 4 x 2.5G PoE copper, 2 x 1G/2.5/10G independent Fiber uplink ports
- Jumbo frame programming at all bandwidth settings
- Unique MPoE™ PoE management
- 90W 802.3bt PoE compliant ports w/ 380W total input power
- Operating temperature range -40°C to +70°C per NEMA-TS 2 standards
- Tested for critical transportation and traffic applications
- Dual power input
- Dual independent fiber Uplink ports
- Port Monitoring with automatic reconnect and PoE application
- Dual Watchdog monitors for Power and Internal communications
- Din Rail, wall and Desktop mounting
- Dual redundant power inputs



Applications

- Transit vehicles and stations
- Upgrading existing systems with newer cameras
- Schools and Offices building, manufacturing buildings
- IDF/MDF applications
- Wireless base stations or others requiring 2.5G bandwidth



Description

The Vigiton MPoE™ Vi30406U is a high-performance PoE switch engineered for robust power delivery and seamless network integration. It features four copper ports supporting IEEE 802.3af/at/bt (Class 0–8) PoE, delivering up to 90W per port with a total PoE power budget of 360W.

In addition to standard PoE, the switch supports select non-standard PoE devices up to 72W, making it an ideal solution for powering a wide variety of PoE cameras and network devices across multiple manufacturers. It is especially well-suited for upgrading existing systems to support devices that require higher or newer PoE standards.

The Vi30406U features Vigiton's exclusive Managed PoE (MPoE™) technology, delivering advanced and comprehensive PoE management and messaging in a user-friendly format. This enables powerful programming capabilities without requiring in-depth network expertise, making integration simple and efficient.

Equipped with two independent 1G/2.5G/10G fiber uplink ports, the Vi30406U offers flexible, high-speed connectivity to support robust system integration. Its high-performance switch fabric, large internal bandwidth, and advanced PoE management make it an ideal solution for Main Distribution Frame (MDF) applications where reliability, scalability, and power control are critical.

The Vi30406U provides maximum protection and reliability. In addition to monitoring if required resetting is providing PoE to individual ports, two separate Watchdogs monitor operating voltage and internal communications every 15 seconds providing protection and auto restart.

Upgrade your network infrastructure with the Vigiton Vi30406U PoE switch, a solution that delivers reliable power, outstanding performance, and flexible connectivity for your growing network needs.

The Vi30406U's high internal bandwidth and PoE is the perfect IDF solution to for MDF-IDF network applications.

Technical Specification*

Electrical

Ethernet Interface	4 x 100/1G/2.5G BaseT Copper Ports
Uplink	2 x Independent 1G/2.5G/10G Fiber
Data Ports	4 x 100/1G/2.5G BaseT Copper Ports
Packet Size	9600 @ 100Mbps/1000Mbps/2500Mbps
Bandwidth Sensing	MDI/MDIX
Surge Protection	TBD
Input Power	Dual Input, 52-57VDC @ 400W Max
PoE Output	Port 1-4, 802.3af/at/bt compliant up to 90W Max.per port, and most non-standard high power PoE up to 72W
PoE Budget Power Consumption	360W (external Power Supply) 6W Standby
Status LEDs	Power: Green Ethernet 100/1G link/act: Green Ethernet 100M/1G Ethernet: Orange PoE Active: Green
Connectors	Standard Ethernet : 4 x RJ-45 Connectors Fiber Optics : 2 x MSA compliant SFP Connector Power : 4-pin detachable terminal blocks
RFC	2544 TCP/IP Packet Transmission 768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet
Jumbo Frame	Up to 9,600 bytes

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 55024:1998+A1:2001+A2:2003
Safety	CE
Environmental	RoHS, WEEE

Environmental

Humidity	0 to 95%, non-condensing
Temperature	Operating: -40°C to +70°C Storage: -40°C to +85°

Mechanical

Dimensions	2x6.6x4.4 in., 5x16.8x11 cm (HxWxL)
Weight	1.9 lb, 862 g
Mounting	Desktop, DIN Rail
Material	Aluminum

Accessories

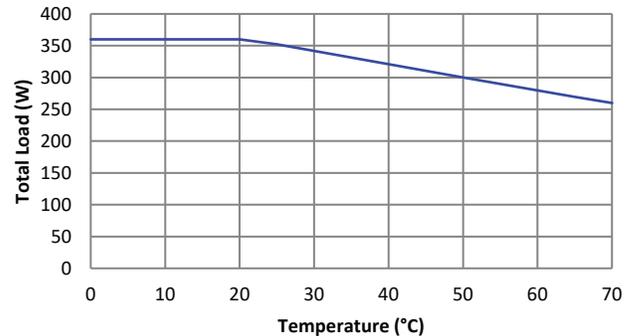
DIN Rail Adapter Mounting Adapter
Desk Mount Brackets

*Specifications subject to change without notice.

Optional Accessories

Vi1120	120W/56VDC Desktop Power Supply
Vi10120	120W/56VDC DIN Rail Power Supply
Vi10240	240W/56VDC DIN Rail Power Supply
Vi10480	480W/56VDC DIN Rail Power Supply

Vi30406U PoE Budget Derating Curve



Ordering Information

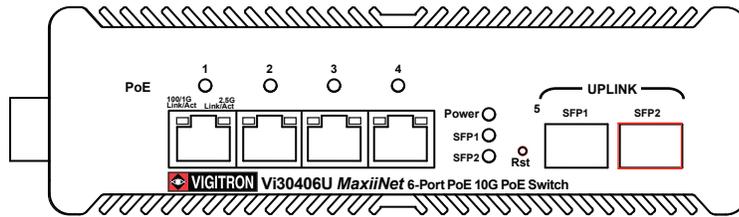
Part No.	Description
Vi30406U	Hardened 6-Port 2.5G Industrial 90W PoE Switch

Related Products

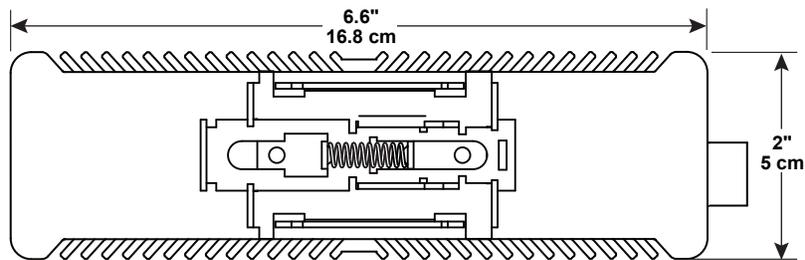
Part No.	Description
Vi10120	DIN Rail 120W/56VDC Power Supply
Vi10240	DIN Rail 240W/56VDC Power Supply
Vi10480	DIN Rail 480W/56VDC Power Supply



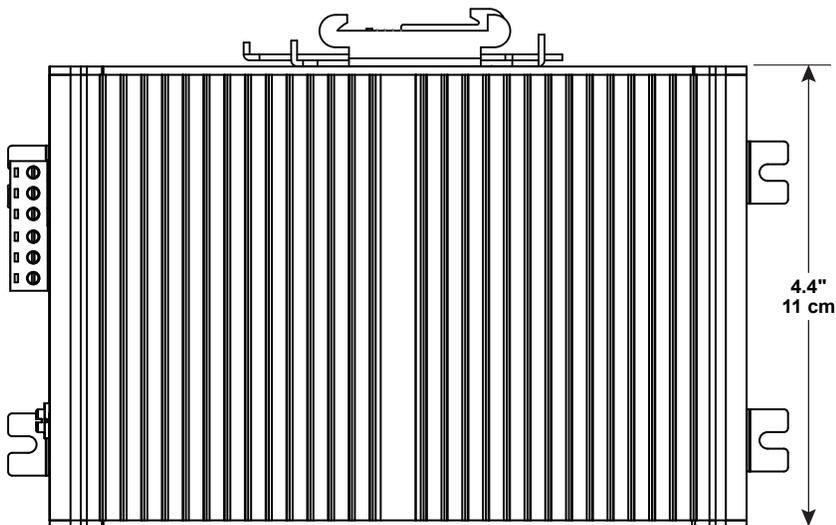
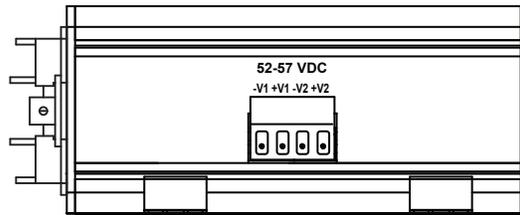
Mechanical Drawings



Front View



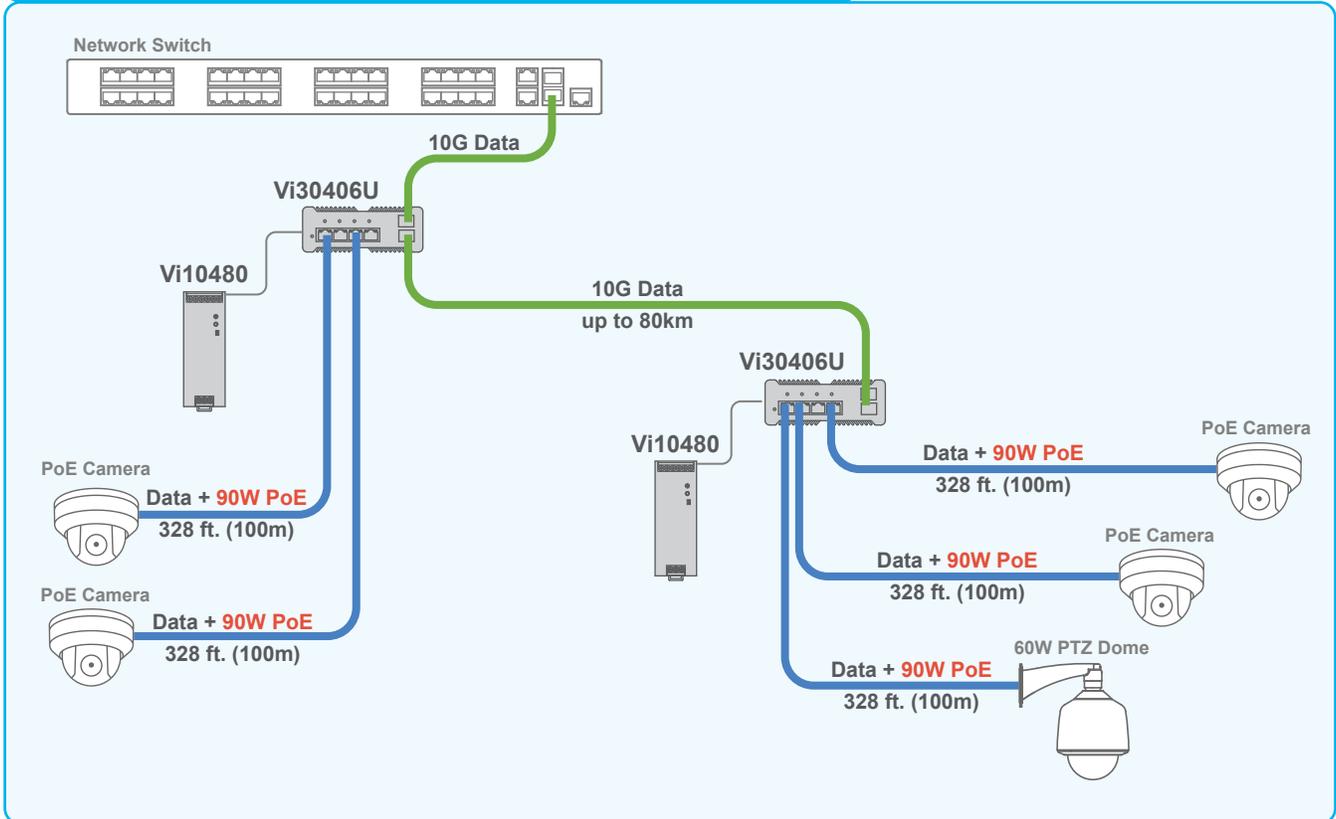
Rear View



Application Drawings



Connecting several Vi30406Us to make a large network



The Vi30406U can be used to connect to another Vi30406U or any IP device at distances up to 80Km over fiber optics.