Vi30208

Managed Hardened 4+2+2-Port, L2+, 90W PoE, 1G Industrial Ring Switch

Features

- 4+2+2 ports with 10/100/1000/2500Mbps** data rate
- Jumbo frame programing at all bandwidth settings
- 90W 802.3bt PoE compliant ports w/ 495W total input power
- Operating temperature range -40ºC to +70ºC per NEMA-TS 2 standards
- Tested for critical transportation and traffic applications
- G.8032 V1/V2 Rapid Ring protocol compliant
- Dual Copper uplink ports with programmable PoE plus
- Dual independent fiber Uplink ports
- Over current protection w/6kv built in surge protection
- 20Gb switch fabric for highest MP camera handling
- NTP and Real Time Clock (RTC)
- Dual power input for back up power supply
- Dual programmable Form C alarm outputs
- Din Rail and Desktop mounting
- Programmable Port Temperature monitoring
- Detailed Syslog with Health status messaging

Applications

- Transit vehicles and stations
- On board vehicles
- Highways
- Parking lots, Garages
- Loading docks

Description

Vigitron's Vi30208 sets a new standard for Industrial Network Switches (INS) with the ability to independently program data for fiber and copper ports and PoE for copper ports providing flexibility in meeting application requirements for 6 independent PoE ports. The Vi30208 operates in temperatures ranging from -40ºC to +70ºC and able to monitor and report individual port temperature.

The Vi30208 accepts DC power up to 495W provides IEEE 802.3bt compliant 90W PoE power on all 6 copper ports for up to a maximum total power of 480W that enables it to power the most demanding PoE applications for PTZ domes, LED lighting and wireless products. Up to six ports can be programmed to provide PoE for maximum installation flexibility.

The Vi30208 is tested for critical transportation and traffic applications. It's intelligent PoE management allocates the maximum power priority starting from port 1. Dual copper and fiber uplinks enable drop and insert for Ring Network configurations to be used for roads and perimeter security applications. Dual copper and fiber uplinks enable drop and insert for Ring Network configurations for roads and perimeter security applications.

The Vi30208 is uniquely designed for outdoor enclosure applications with, a ribbed temperature disbursement chassis, 6KV surge protection and user programmable port thermal protection of over temperature shut down to prevent damage to the Vi30208 from excessive heat.

The Vi30208 is an ideal solution for a wide veraiety of projects specially for IDF to MDF applications.

†2.5Gbps limited to Fiber ports only

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Technical Specification*

Electrical

Ethernet Interface	Standard: 10/100/1000BaseT Uplink: 100/1000/2500*BaseT- SFP
Data Ports	6 Copper ports, 2 MSA Fiber Combo ports
Packet Size	9600@ 100Mbps/1000Mbps/2500Mbps
Bandwidth Sensing	MDI/MDIX
Switch Fabric	20GB
Surge Protection	6KV
Power Source	48-57VDC
Input Power	495W Maximum
PoE Output	802.3af/at/bt complaint, 90W Max.per port
PoE Budget	480W
Power Consumption	12.3W
Status LEDs	Power : Red LED System : Red LED Link/Activity: Green LED Data rate : Orange LED (ON for 1G) PoE : Green Active Fiber Link : Green LED Alarm: Red Flashing
Connectors	Standard Ethernet : 6 x RJ-45 Connectors Console : 1 x RJ45 Fiber Optics : 2 x MSA compliant SFP Connector Power : Detachable terminal blocks Alarm Output : 6-pin Terminal block
RFC	2544 TCP/IP Packet Transmission 768 UDP, 2068 HTTP, 793 TCP 791 IP, 1783 TFTP, 894 IP over Ethernet
PoE Compatibility	IEEE 802.3af/at/bt

Regulatory

FCC Emmissions	Part 15, Subpart B, Class B 2010 EN 5502:2006+A1:2007 EN 61000-3 EN55032 EN55035 EN50121 EN50155 2:2006+A1:2009+A2:2009
Safety	CE EN 62368 (Replacing EN60950-1)
Environmental	RoHS IEC60068-2-32 (Free Fall) IEC60068-2-27 (Shock) IEC60068-2-6 (Vibration) WEEE, Article 11 – Anex V Directive 2012 2012/19/EU

Environmental

Temperature	Operating: -40°C to +70°C (at 240W PoE Output) -40°C to +55°C (at 480W PoE Output) Storage: -40°C to +85°C
Humidity	0 to 95%, non-condensing

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
Desk Mount Brackets

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

* Specifications subject to change without notice.

Ordering Information

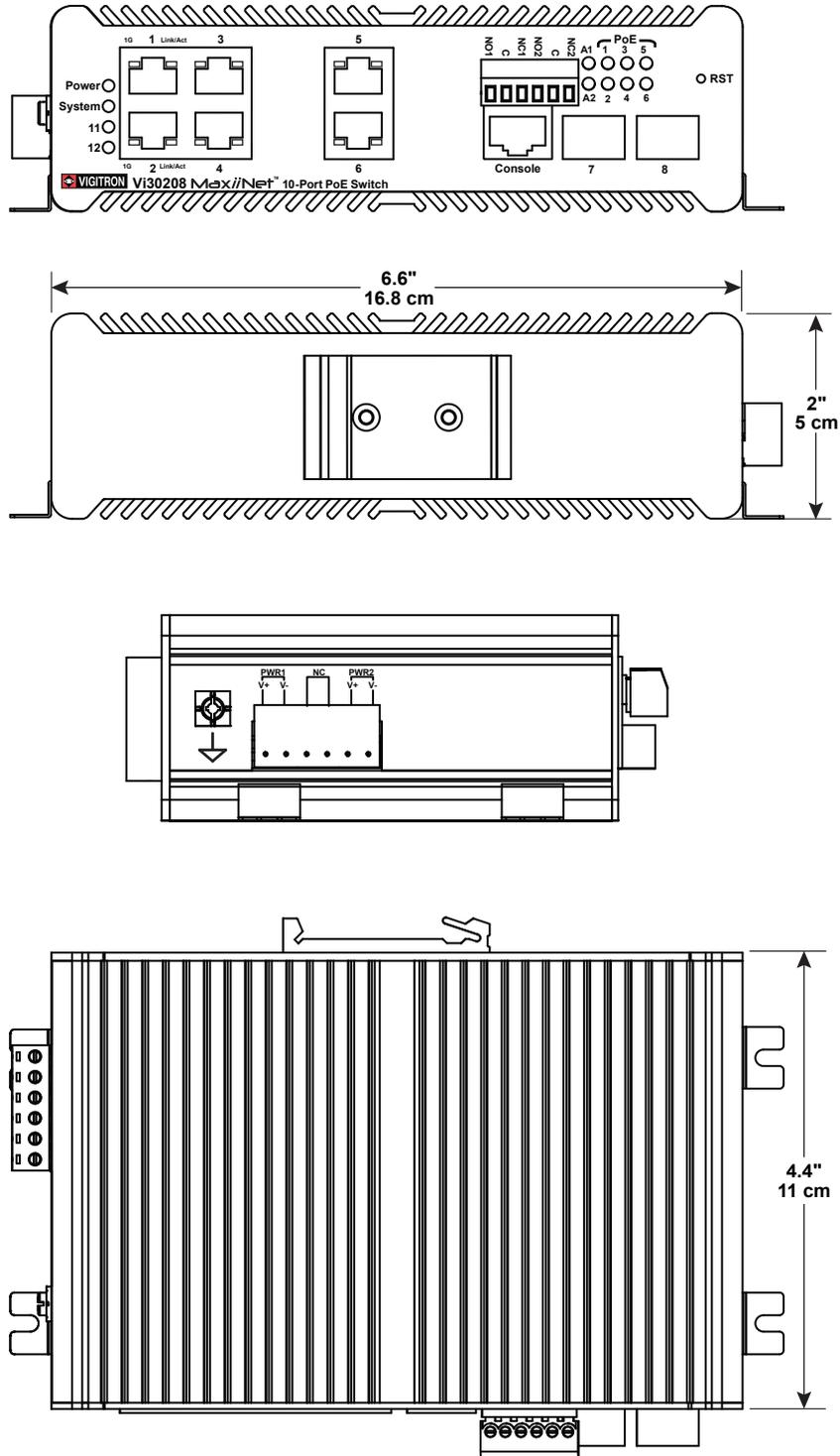| Part No.	Description
Vi30208	Hardened 4+2+2 Port, 90W PoE IndustrialRing Switch

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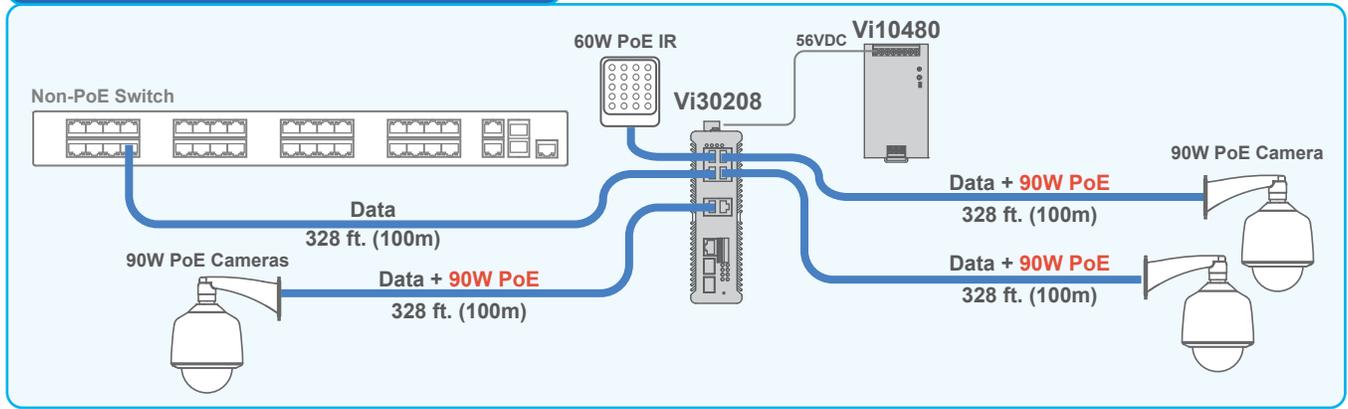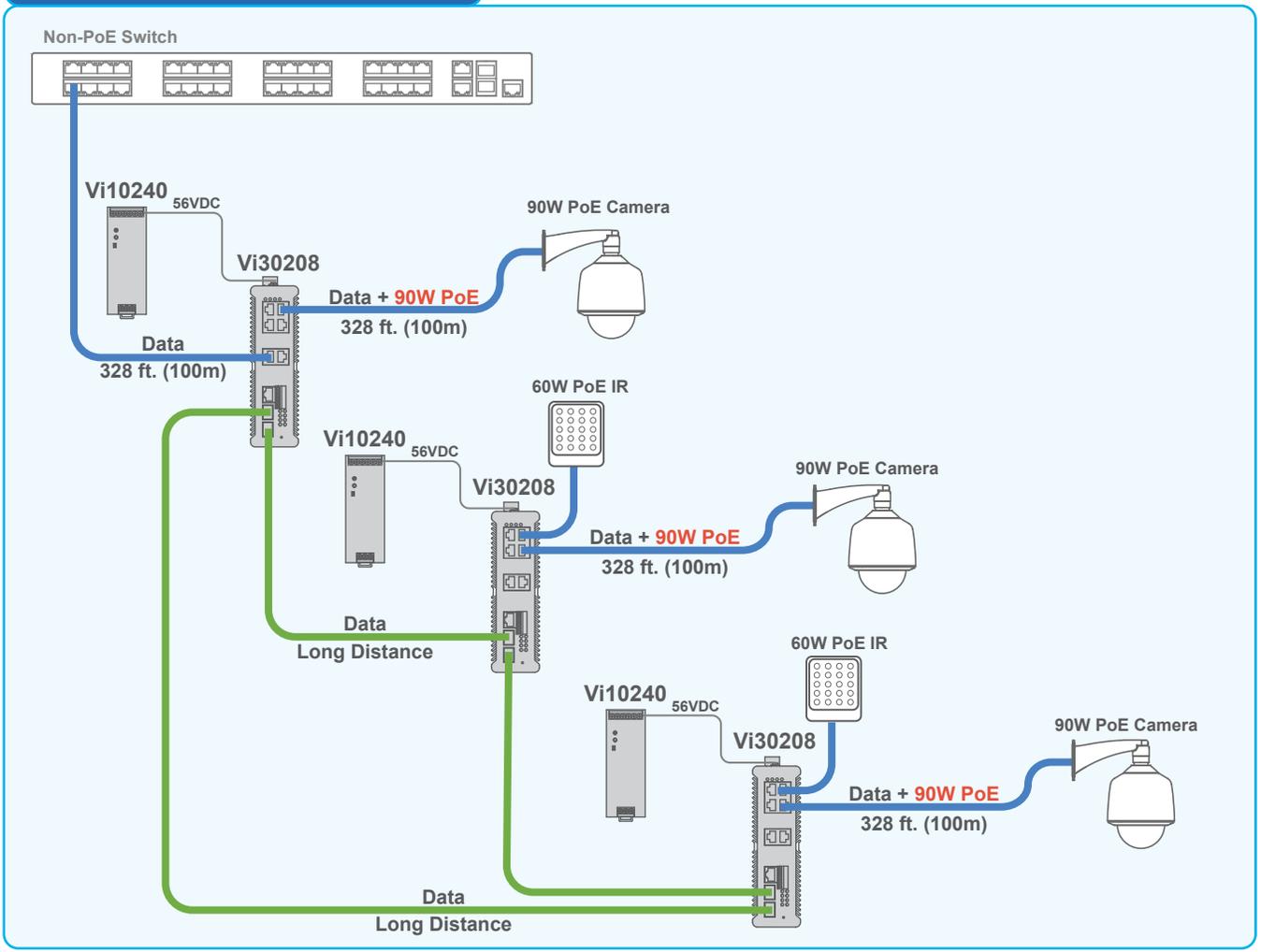
Mechanical Drawings

Application Diagrams

Powering High Power PoE Cameras

60W PoE IR

56VDC **Vi10480**

Non-PoE Switch

Vi30208

90W PoE Camera

Data + 90W PoE
328 ft. (100m)

90W PoE Cameras

Data
328 ft. (100m)

Data + 90W PoE
328 ft. (100m)

Data + 90W PoE
328 ft. (100m)

The Vi30208 and Vigitron Hardened power supplies can power multiple high power PoE PTZ Cameras up to 90W.

The Ring Network Configuration

Non-PoE Switch

Vi10240 56VDC

90W PoE Camera

Vi30208

Data + 90W PoE
328 ft. (100m)

Data
328 ft. (100m)

60W PoE IR

Vi10240 56VDC

90W PoE Camera

Vi30208

Data + 90W PoE
328 ft. (100m)

Data
Long Distance

60W PoE IR

Vi10240 56VDC

90W PoE Camera

Vi30208

Data + 90W PoE
328 ft. (100m)

Data
Long Distance

Multiple Vi30208s can be used in a Ring Network configuration to increase ther eliability of the network.