



OVERVIEW

The **SI420PB** is a full gigabit unmanaged industrial PoE switch independently developed by XENTINO. It has **6*10/100/1000M RJ45** ports **Port 1-4** can support **71W PoE** super high power output and backward compatible with the **IEEE802.3af/at PoE** standard. Single-port PoE power output is 95W. As a PoE power supply device, it can automatically detect and recognize the power-receiving equipment that meets the standard and supply power through the network cable. It provides stable and safe terminals for PTZ network domes, high-power wireless AP, high-power network multimedia speakers, and high-power POE lighting, etc. through a network cable to meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, electric power, mining, metallurgy and green energy. Industrial scenes such as construction set up a cost-effective and stable communication network.

Unmanaged model, plug and play, no configuration, easy to use.

FEATURES

❖ Gigabit wire speed forwarding

- All series supports full gigabit Ethernet ports, high speed and high bandwidth connection to meet the needs of various scenarios.
- Support non-blocking wire-speed forwarding.
- Support full-duplex based on IEEE802.3x and half-duplex based on backpressure.

❖ Smart PoE power supply function

- 4*10/100/1000Base-T RJ45 ports can support PoE power supply, meeting the demand for super high power PoE power supply in various scenarios.
- The maximum output power of single-port POE is 95W, and the backwards compatibility IEEE802.3af/at PoE power supply standard automatically identifies PoE devices for power supply without damaging non-PoE devices.
- Priority system for PoE port, it will supply power to the high priority level port first when the power budget is insufficient and avoid overwork of the device.

❖ Stable and reliable

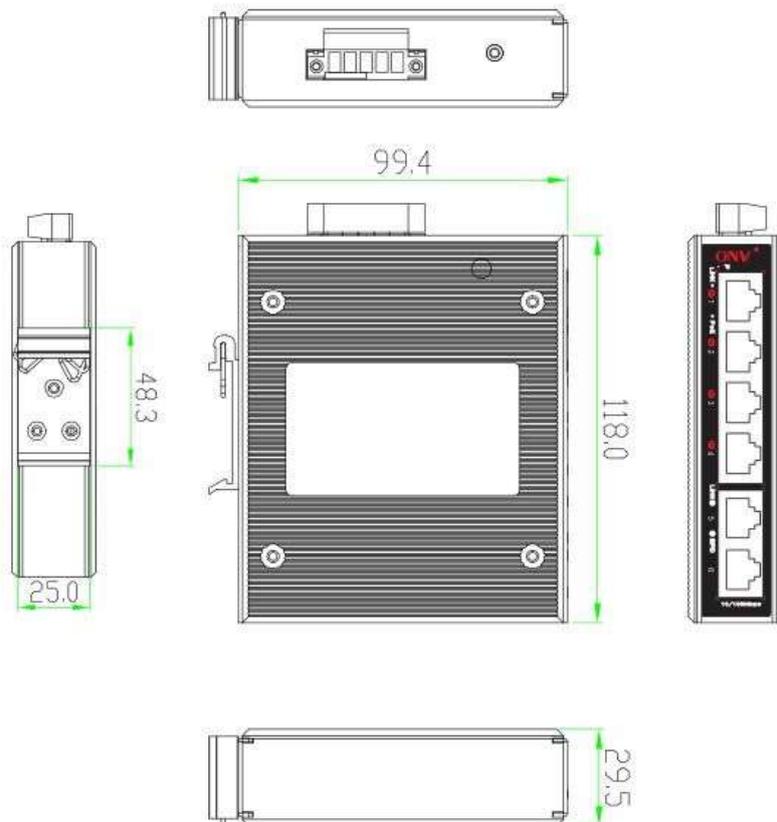
- CCC, CE, FCC, RoHS.
- Low power consumption, aluminum alloy casing, No fan.
- The user-friendly panel, it can show the device status through the LED indicator of PWR, Link, PoE.

TECHNICAL SPECIFICATION

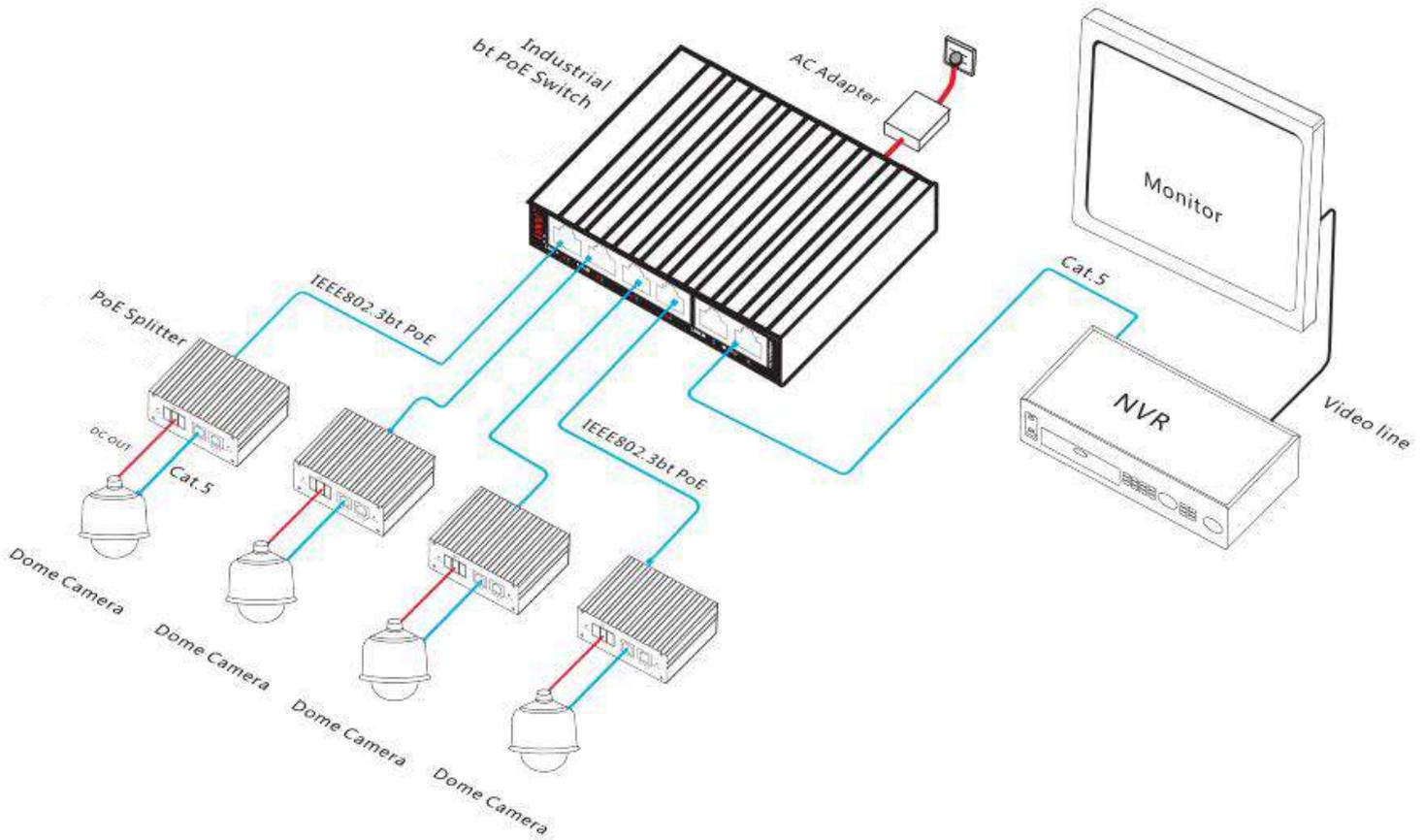
XENTINO SI420PB	
Interface Characteristics	
Fixed Port	4*10/100/1000Base-T PoE ports (Data/Power) 2*10/100/1000Base-T uplink RJ45 ports(Data) 2 set of V+, V- redundant DC power interface (5P Phoenix terminal)
Ethernet Port	Port 1-6 support 10/100Base-TX,auto-sensing, Full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤100 meter) 1000BASE-T: Cat5e or later UTP(≤100 meter)
Chip Parameter	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX,IEEE802.3ab 1000Base-T IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	12Gbps (Non-blocking)
Forwarding Rate	8.93Mpps (@64byte)
MAC	2K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (green), network: Link (yellow), PoE: PoE (green)
PoE & Power Supply	
PoE Port	Port 1 to 4 IEEE802.3af/at @ POE
Power Supply Pin	Default :1/2 (+), 3/6 (-),optional:4/5 (+), 7/8 (-)
Max Power Per Port	95W; IEEE802.3af/at/bt
Total PWR / Input Voltage	240W / (DC48-57V)
Power Consumption	Standby:<6W;Full load:<240W
Power Supply	No, optional 48V/60W or 48V/120W industrial power supply
Working Voltage	48-57VDC, 5P industrial phoenix terminal, anti-reverse protection
Physical Parameter	
Operation TEMP / Humidity	-20~+55°C, 5%~90% RH Non condensing
Storage TEMP / Humidity	-40~+75°C, 5%~95% RH Non condensing
Dimension	119*100*30mm (L*W*H)
Net /Gross Weight	<0.5kg /<1.2kg
Form Factor	Desktop, 35mm DIN rail mounting
Certification & Warranty	

Lightning Protection / Protection Level	<p>Lightning protection: 6KV 8/20us; Protection level: IP40 IEC61000-4-2(ESD): ±8kV contact discharge, ±15kV air discharge IEC61000-4-3(RS):10V/m(80~1000MHz) IEC61000-4-4(EFT): power cable: ±4kV; data cable: ±2kV IEC61000-4-5(Surge): power cable:CM±4kV/DM±2kV; data cable: ±4kV IEC61000-4-6(radio frequency transmission):10V(150kHz~80MHz) IEC61000-4-8(power frequency magnetic field):100A/m;1000A/m ,1s to 3s IEC61000-4-9(pulsed magnet field):1000A/m IEC61000-4-10(damped oscillation):30A/m 1MHz IEC61000-4-12/18(shockwave):CM 2.5kV, DM 1kV IEC61000-4-16(common-mode transmission):30V; 300V,1s FCC Part 15/CISPR22(EN55022): Class A IEC61000-6-2(Common Industrial Standard)</p>
Mechanical Properties	<p>IEC60068-2-6 (anti vibration) IEC60068-2-27 (anti shock) IEC60068-2-32 (free fall)</p>
Certification	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B;
Warranty	2 years, lifelong maintenance.

DIMENSION



APPLICATION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
SI420PB	Unmanaged bt industrial PoE switch with 6*10/100/1000M RJ45 ports. Port 1-4 can support 71W super high power out and backward compatible with POE@IEEE802.3af/at. It can support dual DC redundant power input and DIN rail mounting.	240W

Note: bt industrial PoE switch does not match the power supply.

PACKAGE CONTENT

QTY	UNIT	CONTENT
1	SET	6-port full gigabit bt industrial PoE switch
1	PC	User Guide
1	PC	Warranty Card