



OVERVIEW

The **SI420P** series is a full gigabit industrial PoE switch independently developed by XENTINO. It has **6*10/100/1000Base-T RJ45** ports. **Port 1-4** can support **IEEE 802.3af/at PoE** standard, single-port PoE power up to 30W, and the maximum PoE output power of the host is 60W (at-120W). 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 can supply power to PoE terminal device such as wireless AP, IP camera, industrial sensor through the network cable, and meet the network environment that needs high-density PoE power supply. It is suitable for intelligent transportation, rail transit, power industry, mining, petroleum, sea transportation. Industrial scenes such as metallurgy and green energy construction form a cost-effective, stable and reliable communication network.

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.

❖ Powerful port lightning protection, wide voltage input

- Contact discharge 8KV, air discharge 15KV; port lightning protection common-mode 4KV, differential mode 2KV;
- Industrial dual power input
- DC INPUT: 48V-57V, non-PoE DC INPUT: 12-48V.

❖ Intelligent PoE power supply

- 4*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- IEEE 802.3af/at PoE standard, 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

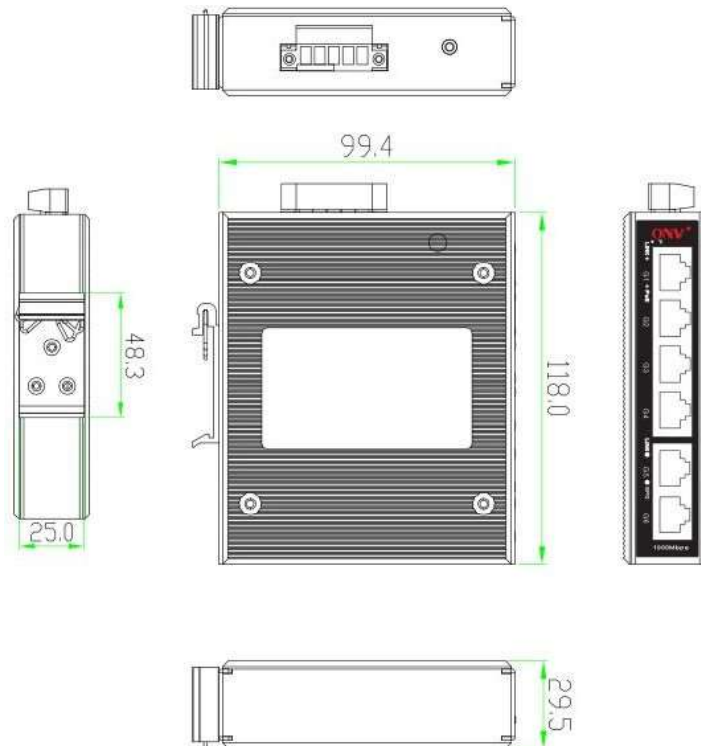
- Low power consumption, No fan, aluminum casing.
- CCC, CE, FCC, RoHS.
- The user-friendly panel, it can show the device status through the LED indicator of PWR, SYS, Link, L/A, PoE.

TECHNICAL SPECIFICATION

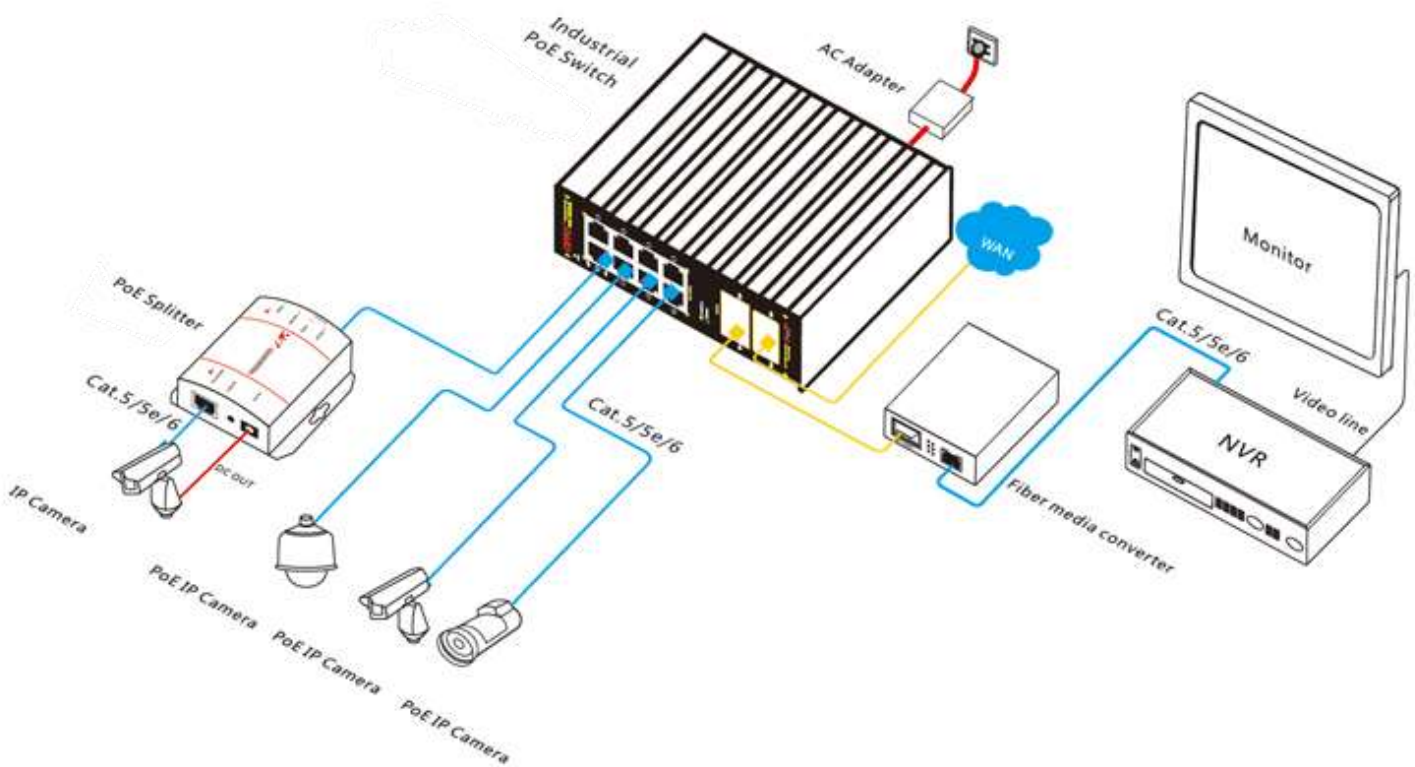
XENTINO SI420P	
Interface Characteristics	
Fixed Port	4*10/100/1000Base-T PoE ports (Data/Power) 2*10/100/1000Base-T uplink RJ45 ports(Data) 2 set of V+, V- redundant DC power interface (5P Phoenix terminal)
Ethernet Port	Port 1-6 support 10/100Base-TX,auto-sensing, Full/half duplex MDI/MDI-X self-adaption
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	16Gbps (Non-blocking)
Forwarding Rate	8.93Mpps (@64byte)
MAC	8K
Buffer Memory	2M
Jumbo Frame	9.2K
LED Indicator	Power: PWR (green), network ;Link, Link/A ct (yellow), POE: PoE (green), speed: SPD (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	30W; IEEE802.3af/at
Total PWR / Input Voltage	60W/48VDC
Power Consumption	Standby:<5W;Full load:<60W
Power Supply	No, optional 48V/60W or 48V/120W industrial power supply
Working Voltage	48-57VDC; 5P industrial Phoenix terminal, support 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	<0.6kg / <0.8 kg
Form Factor	Desktop, DIN rail
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
SI420P	Unmanaged industrial PoE switch with 6*10/100/1000M RJ45 ports, Port 1-4 can support IEEE802.3af/at PoE standard. Support dual DC power supply input and DIN rail mounting.	60W

Note: Industrial PoE switch does not match the power supply.

PACKAGE CONTENT

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