OVERVIEW

The **SI0822GP** series is a **10/100M** industrial PoE fiber switch independently developed by XENTINO. It has **8*10/100M PoE** ports and **2*gigabit RJ45/SFP ports** (Combo port). Port 1-8 can support **IEEE802.3af/at PoE** standard. Single-port PoE power up to 30W. 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 equipment such as wireless AP, webcam, VoIP phone, industrial sensor through network cable, and 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.

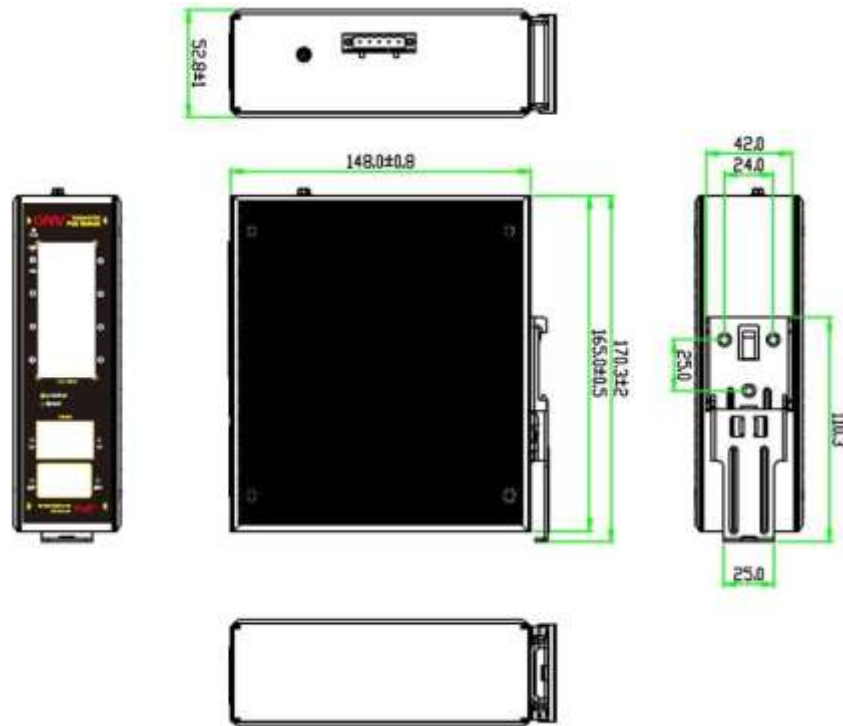Unmanaged model, plug and play, no configuration, easy to use.

FEATURES

❖ **100M access, gigabit (TP/SFP) combo port**
  o Supports 10/100M RJ45 port and gigabit (TP/SFP) combo port combination, which enables users to flexibly build networking to meet the needs of various scenarios.
  o Support non-blocking wire-speed forwarding.
  o Support full-duplex based on IEEE802.3x and half-duplex based on Backpressure.

❖ **Port lightning protection, wide voltage input**
  o Contact discharge 8KV, air discharge 15KV, port lightning protection common-mode 4KV, differential mode 2KV.
  o Industrial dual power input.
  o DC INPUT: 48V-57V.

❖ **Intelligent PoE power supply**
  o 8*10/100Base-TX RJ45 ports support PoE power supply to meet the needs of PoE power supply in various scenarios in the industrial field.
  o IEEE802.3af/at PoE standard, without damaging non-PoE devices.
  o 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**
  o Low power consumption, No fan, aluminum shell.
  o CE, FCC, RoHS.
  o The user-friendly panel can show the device status through the LED indicator of PWR, Link, PoE.

TECHNICAL SPECIFICATION

XENTINO SI0822GP	
Interface Characteristics	
Fixed Port	8*10/100Base-TX PoE ports (Data/Power) 2*10/100/1000Base-T uplink RJ45 ports (Data) 2*100/1000Base-X uplink SFP slot ports (Combo port)(Data) 2 group of V+, V- redundant DC power interface (5 Pin Phoenix terminal)
Ethernet Port	Port 1-8 support 10/100Base-TX, Port 9-10 support 10/100/1000Base-T(X) 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)
SFP Slot Port	Gigabit SFP optical fiber interface, default no include optical modules (optional order single-mode/multi-mode, single fiber / dual fiber optical module. LC)
Optical Cable/Distance	Multi-mode: 850nm/ 0~500M; 1310nm /0~2kM, Single-mode: 1310nm /0~40KM,1550nm/ 0-120KM.
Chip Parameter	
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	5.6Gbps (Non-blocking)
Forwarding Rate	4.17Mpps (@64byte)
MAC	16K
Buffer Memory	4M
Jumbo Frame	10K
LED Indicator	Power: PWR (Green), Network: Link,link/Act (Yellow), Rate: Speed (Green) , PoE: PoE (Green)
PoE & Power Supply	
PoE Port	Port 1 to port 8
Power Supply Pin	Default 1/2 (+), 3/6 (-)
Max Power Per Port	30W, IEEE802.3af/at
Total PWR / Input Voltage	120W/48VDC
Power Consumption	Standby<8W, Full load: af<120W,at<240W
Power Supply	No, optional 48V/120W or 48V/240W industrial power supply
Working Voltage	48-57VDC, 5 Pin 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	165*148*54mm (L*W*H)
Net /Gross Weight	<1.3kg / <1.8 kg
Form Factor	Desktop, 35mm DIN rail mounting

Certification & Warranty	
Lightning Protection / Protection Level	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 B IEC61000-6-2(Common Industrial Standard)
Mechanical Properties	IEC60068-2-6 (anti vibration), IEC60068-2-27 (anti shock) IEC60068-2-32 (free fall)
Certification	CCC; CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B;
Warranty	2 years, lifelong maintenance.
Security	IP-MAC-VLAN-Port binding ARP inspection, Anti-DoS attack AAA & RADIUS, MAC learning limit Mac black holes, IP source protection IEEE802.1X & MAC address authentication Broadcast storm control, Backup for host datum SSH 2.0, SSL, Port isolation, ARP message speed limit User hierarchical management and password protection
DHCP	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
Management	One-key recovery Cable Diagnose, LLDP Web Management (HTTPS) NTP, System work log, Ping Test CPU instant utilization status view Console/AUX Modem/Telnet/SSH2.0 CLI Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP V1/V2C/V3
System	Category 5 Ethernet network cable Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later; TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network

DIMENSION

ORDERING INFORMATION

Model	Description	Recommended Power Supply
SI0822GP	Unmanaged industrial PoE fiber switch with 8*10/100M PoE ports and 2*10/100/1000M uplink RJ45 ports and 2*100/1000M uplink SFP slot ports (Combo port). Port 1-8 can support IEEE802.3af/at PoE standard. It can support DC dual redundant power input and DIN rail mounting.	120W/240W
Note: The industrial PoE switch not including SFP optical module and power supply. and		

PACKAGE CONTENT

QTY	UNIT	CONTENT
1	SET	10-port gigabit uplink industrial PoE fiber switch
1	PC	User Guide
1	PC	Warranty Card