



OVERVIEW

SI0402GP is a full Gigabit managed industrial PoE switch independently developed by XENTINO. It has **4*10/100/1000M PoE** ports and **2*100/1000M SFP** fiber ports. Port 1-4 can support IEEE802.3af/at standard POE, single port POE power up to 30W, and the maximum POE output power is 60W (at-120W). As a POE power supply device, it can automatically detect and identify the electrical equipment that meets the standard and supply power through the cable. It can supply the POE terminal equipment, such as wireless AP, network camera, network telephone, industrial sensor and so on, to meet the demand for high density PoE power supply network environment. 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.

The **SI0402GP** has L2+ network management function, support IPV4 management, static route full line rate forwarding, security protection mechanism, ACL/QoS policy and VLAN, and is easy to manage and maintain. Support multiple network redundancy protocols STP/RSTP/MSTP (<50ms) to improve link backup and network reliability. When one-way network fails, communication can be quickly restored to ensure important Uninterrupted communication for applications. According to the actual application requirements, you can configure multiple application services such as PoE power management, port traffic control, VLAN division, and SNMP through the Web network management mode.

FEATURES

❖ Gigabit access, SFP fiber port uplink

- Support Gigabit Ethernet port and Gigabit SFP port combination, which enables users to flexibly build networking 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, ultra-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

❖ Intelligent PoE power supply

- 4*10/100/1000Base-T RJ45 ports, meeting the needs of security monitoring, teleconferencing system, wireless coverage, and other scenarios.
- IEEE802.3af/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.
- PoE network management, realize PoE port power allocation, priority setting, port power status viewing, time scheduling, etc.

❖ PoE network management and fast Ring function

- IEEE802.1Q VLAN, flexible VLAN division and QinQ configuration.
- QoS, Priority mode based on 802.1P, Port & DSCP, queue scheduling algorithm including EQU, SP, WRR & SP+WRR.
- ALC, filter data packet through configuring matching rules, processing operation & time permission, and provide flexible and safe access control.
- IGMP V1/V2 and IGMP Snooping.
- STP/RSTP/MSTP.
- Static and dynamic aggregation.

❖ Security

- 802.1X authentication.
- Port isolation, Storm control.
- IP-MAC-VLAN-Port binding.

❖ Stable and reliable

- Low power consumption, aluminum shell. No fan.
- 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.

❖ One-stop remote control and management

- Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).
- HTTPS, SSLV3, and SSHV1/V2.
- RMON, system log, LLDP, and port traffic statistics.
- CPU monitoring, memory monitoring, Ping test, and cable diagnose.

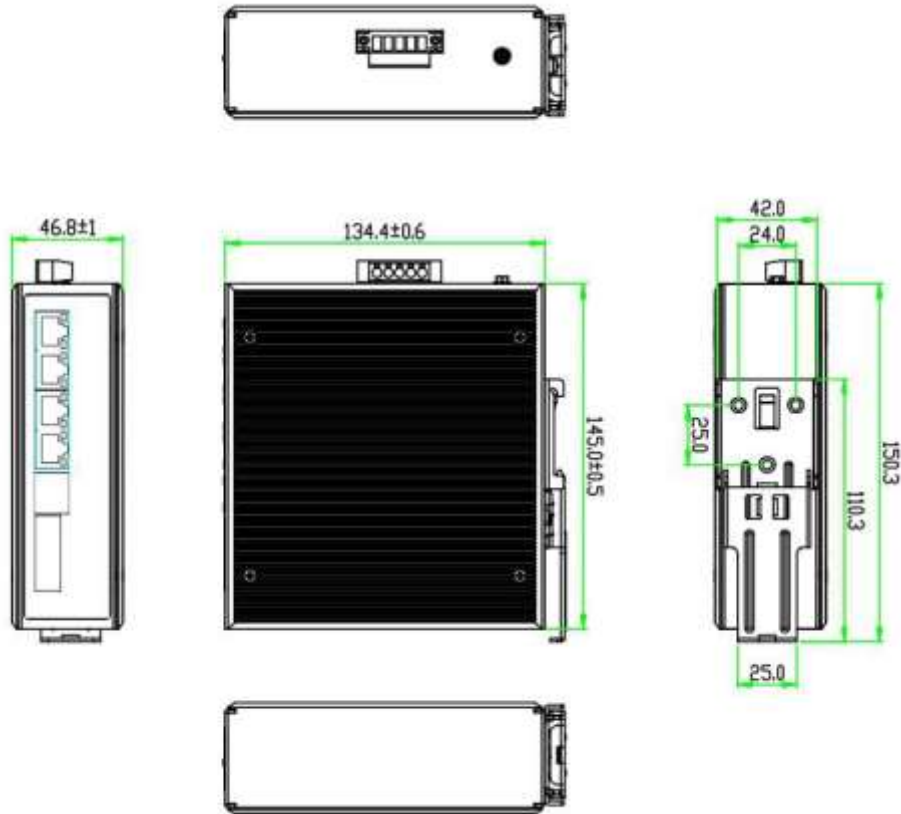
TECHNICAL SPECIFICATION

XENTINO SI0402GP	
Interface Characteristics	
Fixed Port	4*10/100/1000Base-T PoE ports (Data/Power) 2*100/1000Base-X uplink SFP slot ports (Data) 1 * RS232 console port(115200, N, 8, 1) 2 set of V+, V- redundant DC power interface (5 Pin Phoenix terminal)
Ethernet Port	Port 1-4 support 10/100/1000Base-T, 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 matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)

Optical Cable/Distance	Multi-mode: 850nm 0 ~ 550M, single-mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.
Chip Parameter	
Network	L2+
Network Protocol	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T IEEE802.3u 100Base-TX, IEEE802.3ab 1000Base-TX IEEE802.3z 1000Base-X, IEEE802.3x
Forwarding Mode	Store and Forward(Full Wire Speed)
Switching Capacity	64Gbps (Non-blocking)
Forwarding Rate	8.93Mpps (@64byte)
MAC	8K
Buffer Memory	4.1M
Jumbo Frame	10K
CPU(HZ)	500M
DRAM	1G
FLASH	128M
LED Indicator	Power: PWR(yellow), System: SYS(yellow), Network: Link/Act(yellow), Fiber port: L/A(green)
Reset Switch	Yes, One-button factory reset
PoE & Power Supply	
PoE Port	Port 1 to port 4
PoE Management	PoE working status Delay start of power supply PoE output priority configuration Scheduling of PoE operation and time Total power limit of PoE power supply PoE output power allocation, off& af &at
Power Supply Pin	Default:1/2 (+), 3/6 (-)
Max Power Per Port	30W, IEEE802.3af/at
Input Voltage	48-57VDC
Total PWR / Input Voltage	60W /(AC100-240V)
Power Consumption	Standby<18W, Full Load<35W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 1.0A
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	145*134.5*47.5mm (L*W*H)
Net /Gross Weight	<0.6kg / <0.8kg
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 B IEC61000-6-2(Common Industrial Standard)</p>
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; RoHS
Warranty	2 years, lifelong maintenance.
Network Management Features	
Interface	<p>IEEE802.3X (Full-duplex) Port temperature protection setting Port green Ethernet Energy-saving setting Broadcast storm control based on port speed The speed limit of the message flow in the access port. The minimum particle size is 64Kbps.</p>
Layer 3 Features	L2+ network management, IPV4 management Static route, Default route @ 128 pcs, APR @ 1024 pcs
VLAN	4K VLAN based on port, IEEE802.1q, VLAN based on the protocol, VLAN based on MAC QinQ configuration, Port configuration of Access, Trunk, Hybrid
Port Aggregation	LACP, Static aggregation Max 10/14 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)
Industrial Ring Network Protocol	250 Ring at most, Max 250 devices per ring.
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out MLD Snooping v1/v2,Multicast VLAN
Port Mirroring	Bidirectional data mirroring based on port
QoS	<p>Flow-based Rate Limiting, Flow-based Packet Filtering 8*Output queues of each port, 802.1p/DSCP priority mapping Diff-Serv QoS, Priority Mark/Remark Queue Scheduling Algorithm (SP, WRR, SP+WRR)</p>
ACL	<p>Port-based Issuing ACL, ACL based on port and VLAN L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.</p>
Security	<p>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</p>

DIMENSION



ORDERING INFORMATION

Model	Description	Recommended Power Supply
SI0402GP	L2+ managed industrial PoE fiber switch with 4*10/100/1000M RJ45 ports and 2*100/1000M SFP ports, Port 1-4 can support IEEE802.3af/at PoE. Support dual DC power supply input and DIN rail mounting.	60W

Note: The SFP optical module is not included by default and needs to be purchased separately.

PACKAGE CONTENT

QTY	UNIT	CONTENT
1	SET	6-port full gigabit managed industrial PoE switch
1	PC	User Guide
1	PC	Warranty Card
1	PC	RJ45-DB9 Line