OVERVIEW

The **S0802GP** is a full gigabit L2+ managed PoE fiber switch independently developed by Xentino. It has **8*10/100/1000Base-T RJ45** ports and **2*100/1000Base-X SFP** fiber slot ports. Port 1-8 can support **IEEE802.3af/at** standard PoE power supply. Single-port PoE power reaches **30W**, and the maximum PoE output power is 130W(at-250W). 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, building visual access control intercom through network cable, to meet the network environment that needs high-density PoE power supply, suitable for hotels, campuses, parks, supermarkets, scenic spots, Factory quarters and SMB small and medium-sized enterprises form a cost-effective network.

The **S0802GP** has **L2+** full network management, support IPV4 management, static route full line rate forwarding, security protection mechanism, complete ACL/QoS policy and rich VLAN functions, and is easy to manage and maintain. Supports 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, Gigabit 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.

Intelligent PoE power supply
◇ 8*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.

Strong business processing capability
◇ STP/RSTP/MSTP.
◇ Static and dynamic aggregation.
◇ IGMP V1/V2 and IGMP Snooping.
◇ IEEE802.1Q VLAN, flexible VLAN division.

◇ 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.

Security

◇ 802.1X authentication.

◇ Port isolation,Storm control.

◇ IP-MAC-VLAN-Port binding.

Stable and reliable

◇ CCC,CE, FCC, RoHS.

◇ Low power consumption, galvanized steel casing, The fan active cooling.

◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, Link, PoE.

◇ Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.

Easy operation and maintenance management

◇ HTTPS, SSLV3, and SSHV1/V2.

◇ RMON, system log, LLDP, and port traffic statistics.

◇ CPU monitoring, memory monitoring, Ping test, and cable diagnose.

◇ Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).

TECHNICAL SPECIFICATIONS

Model	S0802GP	S0802GP2
Interface Characteristics		
Fixed Port	8*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)	
Ethernet Port	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 matching optical modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)	
Optical Cable/ Distance	Multi-mode: 850nm/ 0-500M, Single-mode: 1310nm/ 0- 40KM, 1550nm /0-120KM.	
Chip Parameter		
Network Management Type	L2+	
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	128Gbps	

Forwarding Rate@64byte	14.88Mpps	
MAC	8K	
Buffer Memory	4.1M	
Jumbo Frame	10K	
CPU(Hz)	500M	
DRAM	1G	
Flash	128M	
LED Indicator	Power:PWR (Yellow), System :SYS (Green), Network:Link (Yellow), POE: PoE (Green), Fiber port: L/A(Green)	
Reset Switch	Yes, One-button factory reset	
PoE & Power		
PoE Port	Port 1 to 8 IEEE802.3af/at @ POE	
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/on & af/at	
Power Supply Pin	Default 1/2 (+) 3/6 (-)	
Max Power Per Port	30W, IEEE802.3af/at	
Total PWR / Input Voltage	**130W** (AC100-240V)	**250W** (AC100-240V)
Power Consumption	Standby:<8W, Full load:<120W	Standby:<10W, Full load:<240W
Power Supply	Built-in power supply, AC100~240V 50-60Hz 2.3A	Built-in power supply, AC100~240V 50-60Hz 4.1A
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 (L*W*H)	270*181*44.5mm	
Net /Gross Weight	<1.7kg / <2.2kg	
Installation	Desktop, Wall-mounted, 19 inch 1U cabinet	
Certification & Warranty		
Lightning Protection	Lightning protection: 4KV 8/20us, Protection level: IP30	

Certification	CCC, CE mark, commercial, CE/LVD EN60950, FCC Part 15 Class B, RoHS
Warranty	3 years, lifelong maintenance.
Network Management Features	
Interface	IEEE802.3X (Full-duplex) Broadcast storm control based on port speed Port real-time traffic management (Flow Interval) The speed limit of the message flow in the access port. The minimum particle size is 1Gbps.
Layer 3 Features	L2+ Network management, IPV4 management Static route, Default route @ 128 pcs, APR @ 1024 pcs
VLAN	VLAN based on the protocol 4K VLAN based on port, IEEE802.1q Port configuration of Access, Trunk, Hybrid
Port Aggregation	LACP, Static aggregation Max 5 aggregation groups and 8 ports per group.
Spanning Tree	STP (IEEE802.1d), RSTP (IEEE802.1w), MSTP (IEEE802.1s)
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out Multicast VLAN
Port Mirroring	Bidirectional data mirroring based on port
QoS	Flow-based redirection 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)
ACL	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.
Security	IP-MAC-VLAN-Port binding ARP inspection,Anti-DoS attack AAA & RADIUS,MAC learning limit Mac black holes,IP source protection 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
Management	CPU instant utilization status view
	Console/AUX Modem/Telnet/SSH2.0 CLI
	One-key recovery, Cable Diagnose, LLDP
	Web Management (HTTPS), NTP, System work log, Ping Test
	Xentino-NMS - Smart Network Management System Platform (LLDP+SNMP)
	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
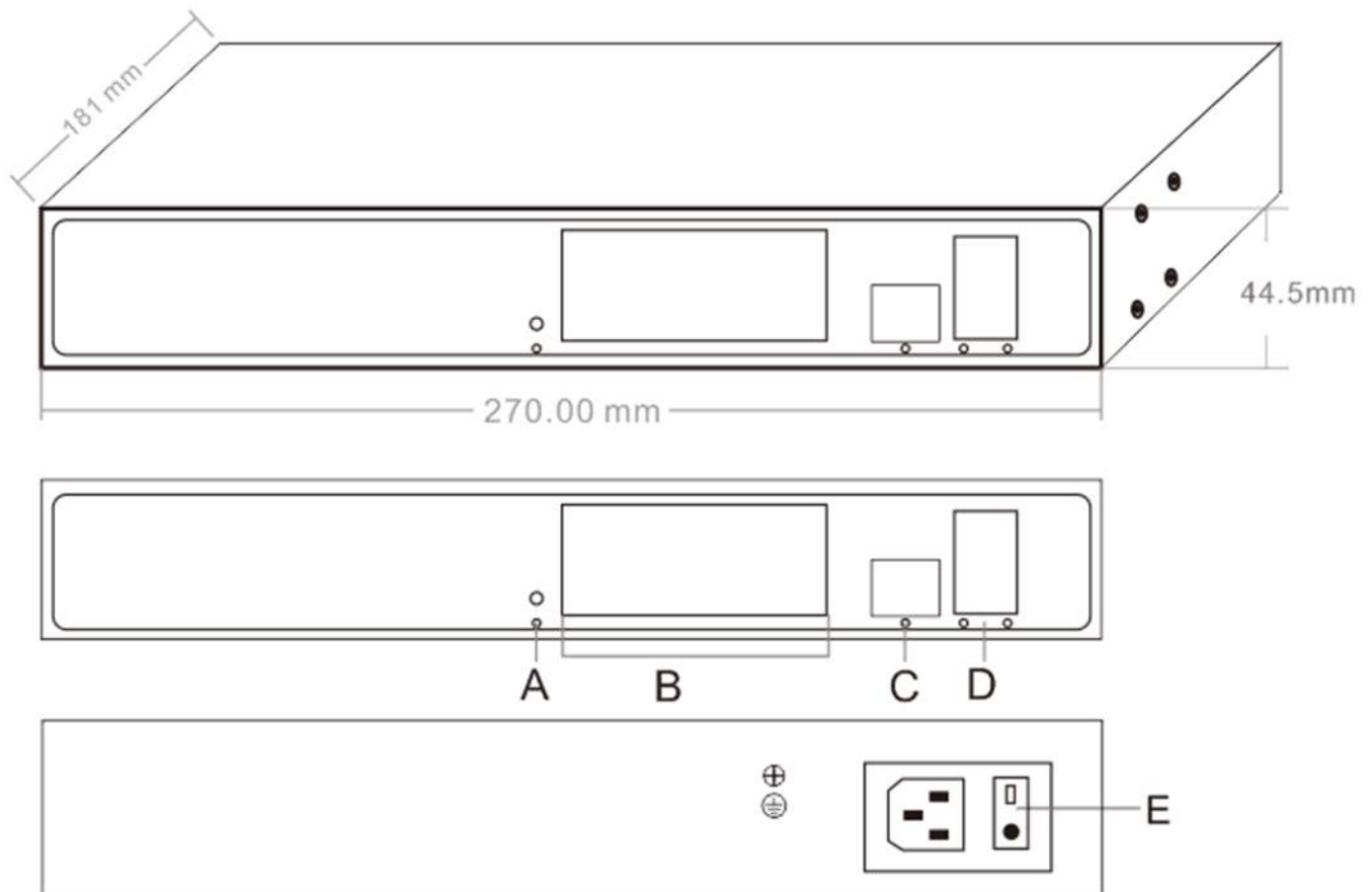
A. Working indicator

B. 8*10/100/1000M PoE ports

C. Console port

D. 2*100/1000M SFP ports

E. Power input port AC100-240V,50/60Hz

APPLICATION
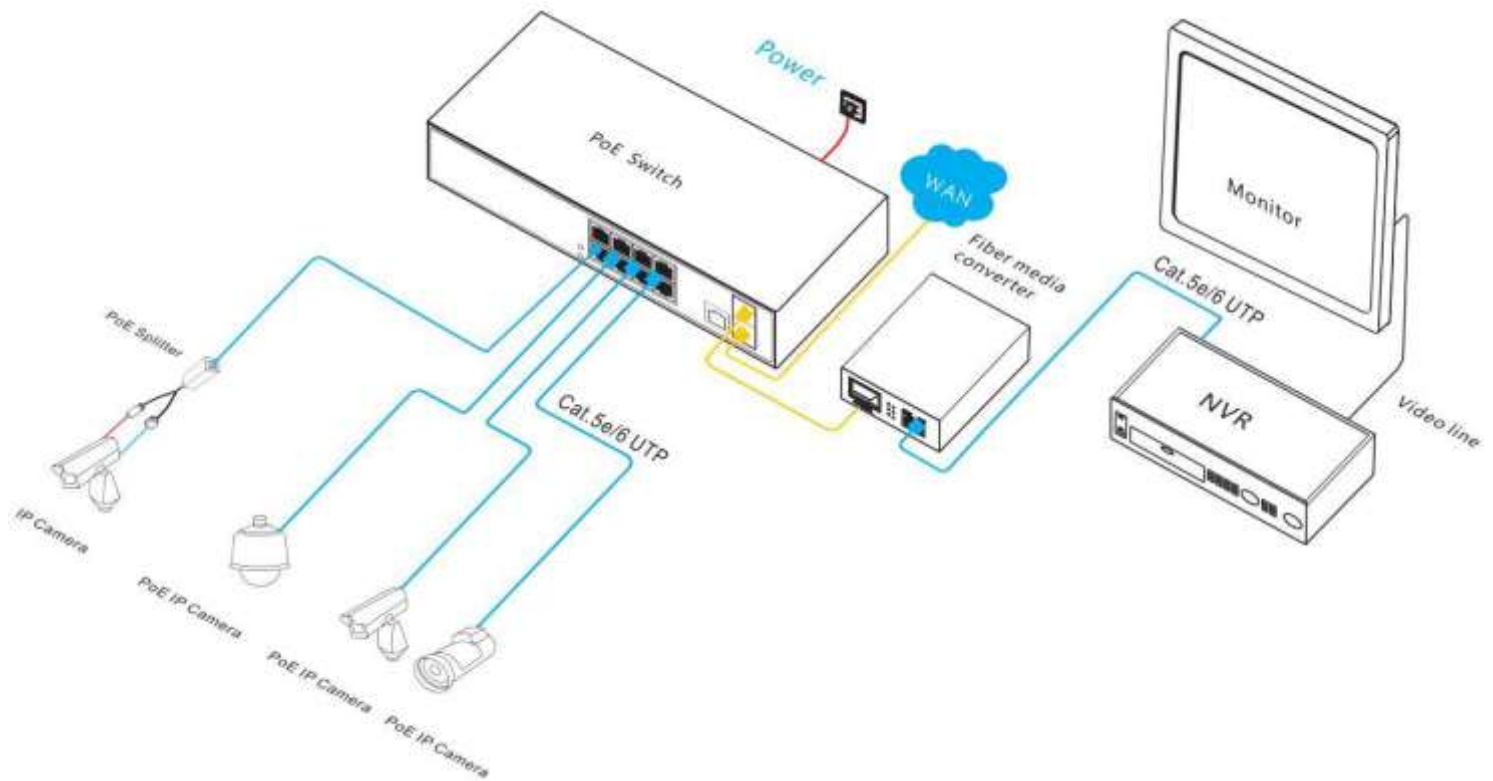
ORDERING INFORMATION

Model	Description
S0802GP	L2+ managed PoE fiber switch with 8*10/100/1000M RJ45 ports and 2*100/1000M SFP fiber ports. Port 1-8 can support IEEE802.3af/at PoE standard. Built-in **130W** power supply.
S0802GP2	L2+ managed PoE fiber switch with 8*10/100/1000M RJ45 ports and 2*100/1000M SFP fiber ports. Port 1-8 can support IEEE802.3af/at PoE standard. Built-in **250W** power supply.

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

PACKAGE CONTENT

QTY	UNIT	CONTENT
1	SET	10Port Gigabit Managed POE Switch
1	PC	AC Power Cable +Power Adapter
1	SET	Mounting Kits(Hanging Ear)
1	PC	User Guide
1	PC	Warranty Card
1	PC	RJ45-DB9 Line