



## OVERVIEW

The **S0822GP/S0822GPB** is a L2+ managed PoE fiber switch independently developed by Xentino. It has 10\*10/100/1000Base-T RJ45 ports and 4\*100/1000Base-X SFP fiber slot ports. Port 1-8 can support IEEE802.3af/at standard PoE power supply. Single port PoE power is 30W, and the maximum PoE output power is 130W (**S0822GP**) 250W(**S0822GPB**). 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 **S0822GP/S0822GPB** has L2+ full network management, support IPV4/IPV6 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) and (ITU-T G.8032) ERPS 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

- ◇ IEEE802.1Q VLAN, flexible VLAN division, Voice VLAN 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.
- ◇ ERPS/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, galvanized steel casing, The Fan active cooling.
- ◇ Self-developed power supply, high redundancy design, providing a long term and stable PoE power output.
- ◇ CCC, CE, FCC, RoHS.
- ◇ The user-friendly panel, it can show the device status through the LED indicator of PWR, Link, PoE.

### Easy operation and maintenance 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.
- ◇ Support CPU monitoring, memory monitoring, ping detection, cable length detection.

## TECHNICAL SPECIFICATIONS

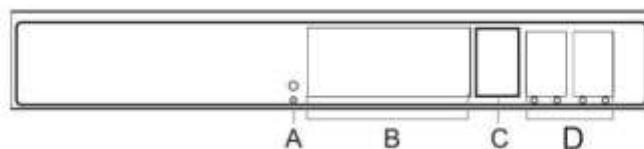
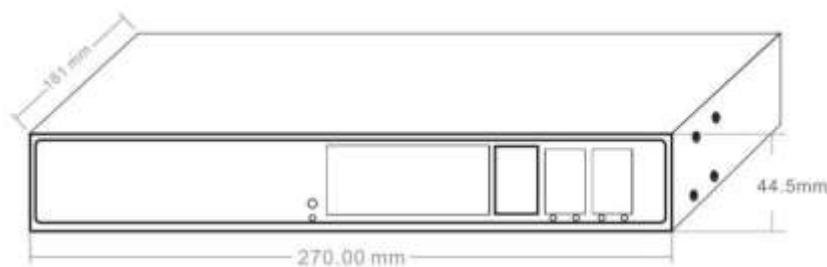
| Model                            | S0822GP  | S0822GPB |
|----------------------------------|--|----------|
| <b>Interface Characteristics</b> |  |          |
| Fixed Port                       | 8*10/100/1000Base-T POE ports (Data /Power)<br>2*10/100/1000Base-T RJ45 ports (Data)<br>4*100/1000Base-X uplink SFP ports (Data)<br>1*Console RS232 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)<br>100BASE-TX: Cat5 or later UTP(≤100 meter)<br>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                    | Multi mode: 850nm 0 ~ 550M, Single mode: 1310nm 0 ~ 40KM, 1550nm 0 ~ 120KM.  |          |
| <b>Chip Parameter</b>            |  |          |
| Network Management Type          | L2+  |          |
| Network Protocol                 | IEEE802.3 10BASE-T, IEEE802.3i 10Base-T, IEEE802.3u 100Base-TX<br>IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X, IEEE802.3x  |          |

|                                     |   |   |
|-------------------------------------|---|---|
| Forwarding Mode                     | Store and Forward(Full Wire Speed)  |   |
| Switching Capacity                  | 256Gbps (Non-blocking)  |   |
| Forwarding                          | 20.83Mpps (Rate@64byte)   |   |
| MAC                                 | 8K  |   |
| Buffer Memory                       | 4M  |   |
| Jumbo Frame                         | 9.6K  |   |
| CPU(Hz)                             | 416M  |   |
| DRAM                                | 1G  |   |
| FLASH                               | 128M  |   |
| LED Indicator                       | System: SYS ( green), Network: Link(yellow), Fiber port: L/A (green), PoE: PoE (green)  |   |
| Reset Switch                        | Yes, One-button factory reset   |   |
| <b>PoE &amp; Power</b>              |   |   |
| PoE Port                            | Port 1 to 8   |   |
| PoE Management                      | PoE working status<br>Delay start of power supply<br>Total power limit of PoE power supply<br>PoE output power allocation, off& af &at<br>PoE output priority configuration<br>Scheduling of PoE operation and time |   |
| 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<10W, Full Load<120W   | Standby<13W, Full Load<240W                               |
| Power Supply                        | Built-in switching power supply, AC 100~240V 50-60Hz 2.3A   | Built-in switching power supply, AC 100~240V 50-60Hz 4.1A |
| <b>Physical Parameter</b>           |   |   |
| 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                   | <2.7kg / <3.4kg   |   |
| Installation                        | desktop type ,wall mounted , 19 inch 1U cabinet installation  |   |
| <b>Certification &amp; Warranty</b> |   |   |

|   |   |
|---|---|
| Lightning Protection / Protection Level | 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.  |
| <b>Network Management Features</b>      |   |
| Interface                               | IEEE802.3X (Full-duplex)<br>Port temperature protection setting<br>Port green Ethernet Energy-saving setting<br>Broadcast storm control based on port speed<br>The speed limit of the message flow in the access port.<br>The minimum particle size is 64Kbps.    |
| Layer 3 Features                        | L2+ network management ,IPV4/IPV6 management<br>L3 soft routing forwarding, Static route, Default route @ 128 pcs, APR @ 1024 pcs   |
| VLAN                                    | 4K VLAN based on port, IEEE802.1q<br>VLAN based on the protocol<br>VLAN based on MAC<br>Voice VLAN, QinQ configuration<br>Port configuration of Access, Trunk, Hybrid   |
| Port Aggregation                        | LACP, Static aggregation<br>Max 7 aggregation groups and 8 ports per group.   |
| Spanning Tree                           | STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)  |
| Industrial Ring Network Protocol        | G.8032 (ERPS),Recovery time less than 20ms<br>250 Ring at most, Max 254 devices per ring.   |
| Multicast                               | MLD Snooping v1/v2,Multicast VLAN<br>IGMP Snooping v1/v2, Max 250 multicast groups, Fast log out  |
| Port Mirroring                          | Bidirectional data mirroring based on port  |
| QoS                                     | Flow-based Rate Limiting<br>Flow-based Packet Filtering<br>8*Output queues of each port<br>802.1p/DSCP priority mapping<br>Diff-Serv QoS,Priority Mark/Remark<br>Queue Scheduling Algorithm (SP, WRR, SP+WRR)   |
| ACL                                     | Port-based Issuing ACL,ACL based on port and VLAN<br>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. |

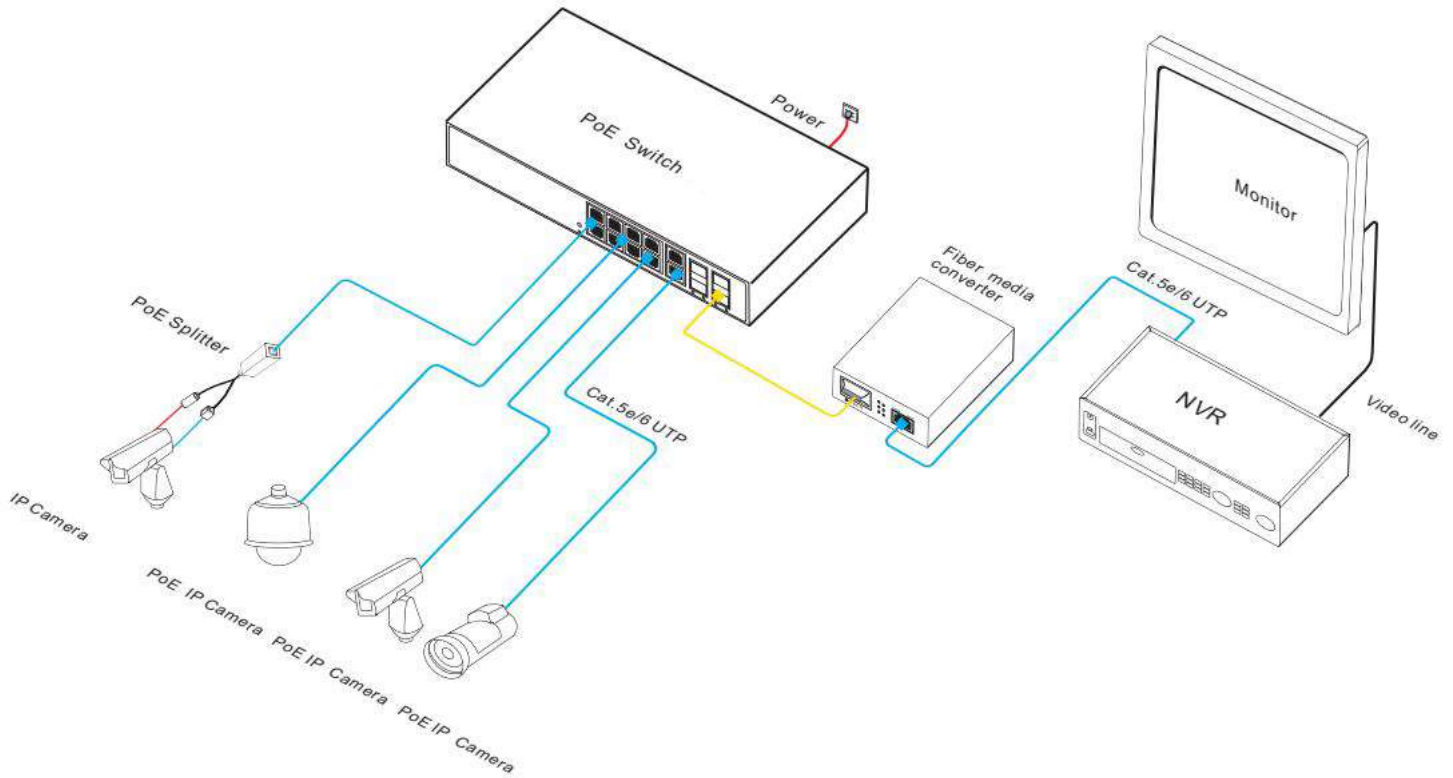
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|------------|---|
| Security   | <p>IP-MAC-VLAN-Port binding</p> <p>ARP inspection, Anti-DoS attack</p> <p>AAA &amp; RADIUS, MAC learning limit</p> <p>Mac black holes, IP source protection</p> <p>IEEE802.1X &amp; MAC address authentication</p> <p>Broadcast storm control, Backup for host datum</p> <p>SSH 2.0, SSL, Port isolation, ARP message speed limit</p> <p>User hierarchical management and password protection</p> |
| DHCP       | <p>DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay</p>  |
| Management | <p>One-key recovery</p> <p>Cable Diagnose, LLDP</p> <p>Web Management (HTTPS)</p> <p>NTP, System work log, Ping Test</p> <p>CPU instant utilization status view</p> <p>Console/AUX Modem/Telnet/SSH2.0 CLI</p> <p>Download &amp; Management on FTP, TFTP, Xmodem, SFTP, SNMP V1/V2C/V3</p> <p>Xentino NMS - smart network management system platform (LLDP+SNMP)</p>                              |
| System     | <p>Category 5 Ethernet network cable</p> <p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer 10 or later;</p> <p>TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network</p>  |

## DIMENSION



- A. Working indicator
- B. 8\*10/100/1000M PoE ports
- C. 2\*10/100/1000M uplink R45 ports
- D. 4\* 100/1000M SFP uplink ports
- E. Power input port AC100-240V, 50/60Hz

## APPLICATION



## ORDERING INFORMATION

| Model           | Description  |
|-----------------|--|
| <b>S0822GP</b>  | L2+ managed PoE fiber switch with 10* 10/100/1000M RJ45 ports and 4*100/1000M SFP fiber slot ports. Port 1-8 can support IEEE802.3af/at PoE standard. Built-in <b>130W</b> power supply. Support 1U/19 inch rack installation. |
| <b>S0822GPB</b> | L2+ managed PoE fiber switch with 10* 10/100/1000M RJ45 ports and 4*100/1000M SFP fiber slot ports. Port 1-8 can support IEEE802.3af/at PoE standard. Built-in <b>250W</b> power supply. Support 1U/19 inch rack installation. |

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

## PACKAGE CONTENT

| QTY | UNIT | CONTENT                           |
|-----|------|-----------------------------------|
| 1   | SET  | 14Port Gigabit Managed POE Switch |
| 1   | PC   | AC Power Cable                    |
| 1   | SET  | Mounting Kits(Hanging Ear)        |
| 1   | PC   | User Guide                        |
| 1   | PC   | Warranty Card                     |
| 1   | PC   | RJ45-DB9 Line                     |