28 Port 10G Uplink 24 Port Gigabit L3 Managed Ethernet POE Switch

# 【Description】

SY-24G410G4SMP is 28 Port 10G Uplink 24 Port Gigabit L3 Managed Ethernet POE Switch, which provide 24\*10/100/1000 adaptive POE electrical port, 4\*10G SFP+ Port,1\*Console port, 1\*USB series port. Used the high quality high speed network IC and the most stable POE chips, POE port satisified IEEE 802.3 af/at standard, this series POE Switch can provide no gap link for 10/100/1000M ethernet, and the PoE power supply port can automatically detect and supply power to the power receiving device that meets the standard, intelligent detection of non-PoE devices does not supply power, only transmits data.

Completed security control strategy and CPU protect policy improve fault tolerance, ensure stable network operation and link load balance; equipment supports automatic DoS attack prevention and SNMP, IEEE 802.1, spanning tree and rapid spanning tree protocol, link aggregation and other functions . With advanced security functions and quality of service (QoS)

, it can be used as core layer, distribution layer ,and access layer switch with high density port and easy management, is an ideal choice for various business network applications.

# 【Main Features】

* Compatible with IEEE 802.1d、IEEE 802.1w、IEEE 802.1s、IEEE 802.1p、IEEE 802.3、IEEE 802.3u、IEEE 802.3x、IEEE 802.3z、IEEE 802.3ab、IEEE 802.3ae standard;
* L3 Management，support DHCP Server, QoS, ACL control, support SNMP V1/V2/V3, support IGMP Snooping v1/v2；
* Support Spanning Tree Protocol STP/RSTP/MSTP （ERPS), Support loop detection and self-healing, support remote loopback monitoring and control (802.3ah OAM);
* Support multiple VLAN divisions, mac VLAN, protocol VLAN, private VLAN;
* Support IP address + MAC address + VLAN + port binding, support DHCP Snooping, support IP source and DAI protection;
* Support IPV4/IPV6,RIP,OSPF
* Compatible with IEEE802.3at (30W) and IEEE802.3af (15.4w) power supply standards
* Support PoE management, PoE watchdog

# 【Application Environments】

* Metropolitan fiber broadband network: telecommunications, cable television, network system integration, etc., data network operators
* Broadband private network: applicable to private networks in finance, government, petroleum, electric power, public security, education and other industries
* Multimedia transmission: Image, Voice, Data transmission, for distance learning, conference television, video phones and other applications
* Real-time monitoring: real-time control signal, image and data transmission at the same time

# 【Specification】

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| **I/O Interface** | |
| Power | AC100-240V/50-60Hz |
| Ethernet | 24\*10/100/1000Mbps POE Port  4\*10G SFP + Port 1\*RJ45 Console Port  1\*USB Port |
| **Performance** | |
| Capacity | 128Gbps |

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| Packet Forwaring Rate | 95.23Mpps |
| DDR SDRAM | 128MB |
| Flash Memory | 16MB |
| Packet Buffer Memory | 12Mbit |
| MAC Address | 16K |
| Jumbo Frame | 12Kbytes |
| VLANs | 4096 |
| MTBF | 100000 hours |
| **Standard** | |
| Network Protocol | IEEE 802.3: Ethernet MAC Protocol IEEE 802.3i: 10BASE-T Ethernet  IEEE 802.3u: 100BASE-TX Fast Ethernet IEEE 802.3ab: 1000BASE-T Gigabit Ethernet  IEEE 802.3z: 1000BASE-X Gigabit Ethernet (optical fiber) IEEE 802.3ae: 10G Ethernet（optical fiber）  IEEE 802.3az: Energy-efficient Ethernet  IEEE 802.3ad: Standard method of performing link aggregation IEEE 802.3x: flow control  IEEE 802.1ab: LLDP/LLDP-MED（Link Layer Discovery Protocol）  IEEE 802.1p: LAN Layer 2 Qos/Cos protocol (multicast filtering function) related to traffic priority IEEE 802.1q: VLAN Bridge Operation  IEEE 802.[1x: Client/Server](https://baike.baidu.com/item/Client/Server) Access Control and Authentication Protocol IEEE 802.1d: STP  IEEE 802.1s: MSTP  IEEE 802.1w: RSTP |
| PoE Protocol | IEEE802.3af（15.4W）  IEEE802.3at （30W） |
| Industry Standard | EMI: FCC Part 15 CISPR (EN55032)  class A EMS: EN61000-4-2 (ESD) |
| Network Medium | 10Base-T: Cat3, 4, 5 or above UTP/STP(≤100m) 100Base-TX: Cat5 or above UTP/STP(≤100m) 1000Base-TX: Cat5 or above UTP/STP(≤100m) Multi-mode Fiber: 50/125, 62.5/125, 100/140um  Single-mode Fiber: 8/125、8.7/125、9/125、10/125um |
| **Certification** | |
| Safety Certificate | CE、RoHS |
| **Environment** | |
| Working Environment | Working Temperature: -10~50°C Storage Temperature: -40~70°C  Working Humidity ：10%~90%，non-condensing  Storage Temperature：5%~90%，non-condensing |
| **Function Indication** | |

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| PWR (Power Indicator) | Lighting：Powered Un-Light：No Power |
| SYS (System Indicator) | Flashing: not start or fail Lighting: System Running |
| Link（Link Indicator） | Lighting: Link connection Flashing: Data transmission  Un-Light: Link disconnect |
| PoE/ACT  （PoE Indicator） | Lighting：PoE on Un-Light：PoE off |
| ACT（Data light） | Steady on: Link connected Flashing: data transmission  No light: The link is unreachable |
| **Physical Specification** | |
| Structure Size | Product Dimensions: 440\*280\*44mm Packing Dimensions: 503\*385.5\*91mm Product N.W: 4.03KG  Product G.W: 5.15KG |
| Packing Info | Carton Dimensions: 520\*380\*405mm Packing quantity: 4 sets  Packing weight: 21.4KG |
| Power Voltage | Input voltage: AC100-240V/50-60Hz Power supply: 52V 7.5A 12V4A |
| Power Consumption | Product Consumption：33W PoE Budget：390W  Total Power Consumption: 440W |
| Package List | Ethernet switch 1 set, Instruction manual 1 pcs, Certificate1 pcs, Power cord 1 pcs Serial cable 1 pcs, Brackets 1 pair |
| **Order Info** | |
| SY-24G410G4SMP | 28 Port 10G Uplink 24 Port Gigabit L3 Managed Ethernet POE Switch |

**【Software Function】**

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| Basic Function | Support hardware watchdog, factory reset, system and port LED |
| Support global information, statistical information, log information |
| Support User management, alarm management, configuration management |
| Support Port rate, duplex, flow control, max frame length configuration |
| Support Port mirroring, port speed limit, port energy saving |
| Layer 3 interface | Support three-layer interface |
| Support IPv4, IPv6 address configuration |
| Support ARP configuration |
| Support ND configuration |
| Layer 3 routing | Support IPv4 static routing |
| Support IPv6 static routing |
| Support RIP V1/V2 |
| Support OSPF |
| DHCP | Support DHCP server |
| Support DHCP relay |
| Support DHCP Snooping |
| VLAN | Support 4K VLAN |
| Support 802.1Q VLAN, port-based VLAN |
| Support Access, Trunk, Hybrid VLAN mode |
| Support GVRP (VLAN Registration Protocol) |
| Support MAC VLAN, IP VLAN |
| Support Voice VLANN |
| MAC address | Support MAC address automatic learning and aging |
| Support Static, dynamic, filtered address table |
| Security Features | Password protection |
| Support Restrict user access based on port number, IP address, MAC address |
| Support HTTPS, SSH V1/V2 |
| Support VLAN-IP-MAC-PORT binding |
| Support ARP detection, IP source protection, DoS protection |
| Support DHCP Snooping、DHCP Attack protection |
| Support 802.1X certification |
| Support AAA (Authentication, Authorization, Accounting), Support RADIUS+ |
| Support Port security, port isolation |
| Access Control | Support L2(Layer 2)～L4(Layer 4) Packet filtering function |
| Support Port mirroring, flow rate limiting, QoS remarking |
|  | Support 8 port queues |
| Support Port priority, 802.1P priority, DSCP priority |

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| QOS | Support SP, WRR Priority scheduling algorithm |
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| QOS | Support 8 port queues |
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| Support SP, WRR Priority scheduling algorithm |
| Spanning Tree | Support STP(IEEE 802.1d), RSTP(IEEE 802.1w) & MSTP(IEEE 802.1s) protocol |
| Support Multi-instance, Support Aggregate interface |
| Support BPDU Protection |
| Multicast | Support IGMP v1/v2/v3 Snooping |
| Support MLD v1/v2 Snooping |
| Support Layer 2 multicast fast leave mechanism, querier |
| Support Layer 2 IPv4 static multicast |
| Support Layer 2 IPv6 static multicast |
| Support IGMP v1/v2/v3 Layer 3 multicast |
| Storm Suppression | Support multicast suppression |
| Support broadcast storm suppression |
| Support unknown uni-cast suppression |
| Ring Protection | Support Ring protection |
| Link Aggregation | Support Static Aggregation |
| Support LACP Dynamic Aggregation |
| Support based on IP, MAC, mixed load-balancing modes |
| Maximum support 8 aggregation groups (8 ports per aggregation group) |
| IPv6 | Support IPv6 Ping、IPv6 Traceroute、IPv6 Telnet |
| Support IPv6 SSH |
| Support IPv6 HTTP, IPv6 HTTPS |
| Management & Maintenance | Support WEB Management（HTTP, HTTPS） |
| Support CLI (Telnet, SSH V1/V2, Local serial port) |
| Support SNMP V1/V2/V3 |
| Support RMON V2 |
| Support LLDP Device discovery |
| Support SNTP Time synchronization |
| Support CPU Monitoring, Memory Monitoring |
| Support System log, classification warning |
| Support Ping, Traceroute detection, cable detection |

# 【Picture】



**【Picture Structure 】**

