

GALGUS Switch G-SW-M8P24S4+3

36-Port 10G Uplink Layer Three Managed PoE Fiber Switch



The G-SW-M8P24S4+3 series is a 10G uplink layer three managed PoE fiber switch. It has 8*10/100/1000Base-T RJ45 ports and 24*100/1000M SFP fiber slot ports and 4*1/10G SFP+ fiber slot ports. Port 1-8 can support IEEE 802.3af/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, etc. through a network cable to meet the network environment that needs high-density PoE power supply. It is suitable for hotel, campus, factory dormitory and small and medium-sized enterprise.

The G-SW-M8P24S4+3 has the layer three full network management function, supports IPV4/IPV6 management, supports static route full line rate forwarding, supports complete 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.

Main Features

Gigabit multi fiber port access, 10G uplink

All series supports "Gigabit Ethernet port + Gigabit SFP port+10G SFP+ uplink 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 function

8*10/100/1000Base-T RJ45 ports support PoE power supply, which meets the requirements of PoE power supply in security monitoring, teleconferencing systems, and wireless coverage.

It complies with the IEEE 802.3af/at PoE power supply standard and automatically recognizes PoE devices for power supply without damaging non-PoE devices. The maximum PoE output power is 130W(at-250W), and the maximum PoE output power of a single port is 30W.

The PoE port supports the priority mechanism. When the remaining power is insufficient, the power supply of the high-priority port is preferentially guaranteed to prevent the device from being overloaded.

Supports the POE network management function, which can be configured through the network management system to implement power allocation, priority setting, port power status check, and time scheduling of PoE ports.

Strong business processing capability

Support IEEE 802.1Q VLAN, users can flexibly divide VLAN according to needs, and support QinQ configuration.

Support QoS, support port based, 802.1P based and DSCP based three priority modes and Equ, SP, WRR, SP+WRR four queue scheduling algorithms.

ACL supports the filtering of data packets by configuring matching rules, processing operations and time permissions, and provides a flexible access control strategy.

Support IGMP V1/V2 multicast protocol and support IGMP Snooping to meet the multi terminal HD video surveillance and video conference access requirements.

Support STP/RSTP/MSTP production tree protocol, eliminates two layers of loops, and realizes link backup.

Support G.8032 industrial fast Ring network ERPS Protocol network convergence time $\leq 20\text{ms}$

Support static convergence and dynamic convergence, effectively increases link bandwidth, achieves load balancing, link backup, and improves link reliability.

Complete safety protection mechanism

Support 802.1X authentication, provide authentication function for LAN computer, and control the authorized status of controlled port according to the result of authentication.

Support port isolation

Support port broadcast storm suppression

Support port +MAC binding, IP+MAC+ port binding function

The equipment is stable and reliable

The host has low power consumption, no fan mute design, aluminum alloy metal shell, excellent heat dissipation, and ensure stable operation of products.

The equipment meets the national CCC standard, fully meets the requirements of CE, FCC and RoHS safety regulations, and is safe and reliable.

Developed power supply, high redundancy design, provides long-term stable PoE power

The user can easily understand the working status of the device through the power indicator (PWR), system status indicator (SYS) ,and port status indicator (Link,L/A) operation indicator.

Easy operation and maintenance management

Support various management and maintenance methods such as Web management, CLI command line (Console, Telnet), SNMP (V1/V2/V3).

Support encryption methods such as HTTPS, SSLV3, and SSHV1/V2 for more secure management.

Support RMON, system log, port traffic statistics, easy network optimization and transformation.

Support LLDP, which is convenient for the network management system to query and judge the communication status of the link.

Support CPU monitoring, memory monitoring, ping detection, cable length detection.

Technical Specification

Model	G-SW-M8P24S4+3	G-SW-M8P24S4+3-at
Interface	8*10/100/1000Base-T PoE ports (Data/Power) 24*100/1000Base-X uplink SFP fiber slot ports (Data) 4*1/10G uplink SFP+ fiber slot ports (Data) 1*Console RS232 port (115200,N,8,1)	
POE Port	Port 1-8 can support IEEE 802.3af/at PoE standard	
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3ae 10GBase-SR/LR IEEE802.3x	
PoE Standard	IEEE802.3af/at international standard	
Ethernet Port Feature	Port 1-8 can support 10/100/1000BaseT(X) auto detect, full/half duplex MDI/MDI-X adaptive	
Fiber Port Feature	Gigabit SFP /10G SFP+ fiber interface (Fiber module is not included, need to order separately, module options include single/multi mode, single/dual fiber, LC)	
Forwarding Mode	Store and Forward(Full Wire Speed)	
Switching Capacity	598Gbps (non-blocking)	
Forwarding Rate@64byte	107.14Mpps	
MAC	32K	
Buffer Memory	32M	
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)	
Optical Fiber Cable	Multi-mode:850nm 0~300M(10G) ,850nm 0~500M (1.25G); Single-mode:1310nm 0~40KM,1550nm 0~120KM.	
Power Supply Pin	Default: 1/2(+),3/6(-)	
Max / Average Power Per Port	30W/15.4W	30W/30W
Total PWR / Input Voltage	130W (AC100-240V)	250W (AC100-240V)

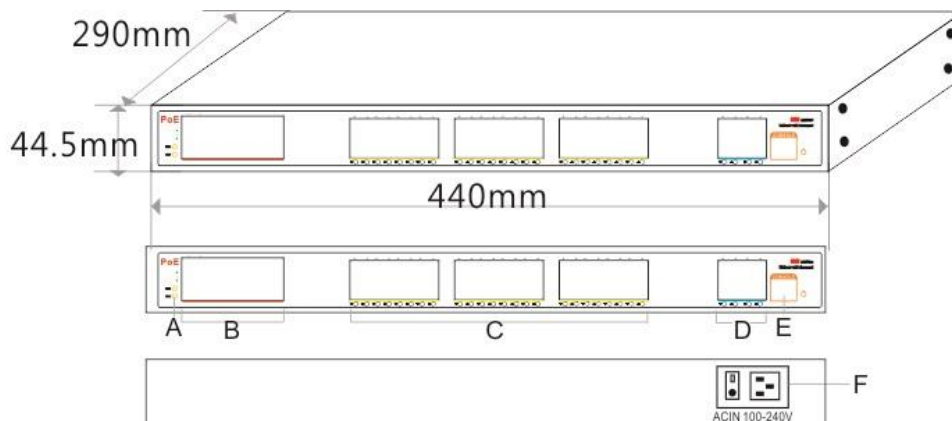
Power Consumption	Standby<20W; Full Load<130W	Standby<25W;Full Load<250W
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 2.3A	Built-in power supply, AC 100~240V 50-60Hz 4.1A
LED Indicator	Power indicator:PWR(yellow); system indicator:SYS(yellow); network indicator;Link(yellow); PoE indicator: PoE (green); Fiber port indicator L/A(green)	
Reset Button	Support one key to restore factory settings	
Operation TEMP/Humidity	-20~+55°C;5%~90% RH Non condensing	
Storage TEMP /Humidity	-40~+80°C;5%~95% RH Non condensing	
Dimension (L*W*H)	440*290*44.5mm	
Net /Gross Weight	<4.0kg / <4.8kg	<4.5kg / <5.2kg
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.	
Managed Series Feature		
Interface	IEEE802.3x flow control (full duplex) Broadcast storm suppression for port rate support speed limit for incoming and offline message traffic, with a minimum particle size of 64Kbps. Temperature protection setting Energy saving configuration of port IEEE Ethernet	
PoE Management	Total power limit of PoE power supply PoE output power allocation per port, close /af/at PoE output priority configuration for each port PoE working state display per port Power delay start PoE work and time scheduling	
Layer3 Function	Support L3 managed function Support IPV4/IPV6 management Support layer 3 of software line speed forwarding.Support different network segments, communication between different VLAN	

	<p>Static routing/default routing,128 maximum entries</p> <p>ARP protocol, 1024 maximum entries</p>
VLAN	<p>Support port based VLAN (4K), IEEE802.1q</p> <p>Support protocol based VLAN</p> <p>Support Access, Trunk, Hybrid three types of port configuration</p> <p>Support QinQ configuration</p>
Port Aggregation	<p>Support LACP</p> <p>Support static polymerization</p> <p>Support the largest 8 aggregation groups, each aggregation group supports 8 ports.</p>
Spanning Tree	<p>STP (IEEE802.1d)</p> <p>RSTP (IEEE802.1w)</p> <p>MSTP (IEEE802.1s)</p>
Industrial Ring Network Protocol	<p>Support G.8032 (ERPS), support 255 loops at most, and supports 1024 devices per ring.</p> <p>The self healing time of the ring network is less than 20ms</p>
Multicast	<p>Support IGMP Snooping V1/V2 and support 1024 multicast groups at most.</p> <p>Support the user's quick departure mechanism</p> <p>Support MLD Snooping V1/V2</p> <p>Support multicast VLAN</p>
Image	<p>Bi-directional traffic mirroring supporting the basic port</p>
QoS	<p>Diff-Serv QoS</p> <p>Each port supports 8 output queues</p> <p>Support 802.1p/DSCP priority mapping</p> <p>Support queue scheduling mechanism (SP, WRR, SP+WRR)</p> <p>priority tag Mark/Remark</p> <p>stream based packet filtering</p> <p>Support for stream based redirection</p> <p>Support flow based speed limit</p>
ACL	<p>Support L2 to L4 packet filtering function, can match the first 80 bytes of the message, provide based on the source MAC address, destination MAC address, source IP address, destination IP address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN and other definition ACL.</p> <p>Support ACL based on port and VLAN</p>
Safety Characteristics	<p>Support user grading management and password protection</p>

	<p>Support IEEE802.1X authentication / centralized MAC address authentication</p> <p>Support AAA&RADIUS authentication</p> <p>Support the number of MAC address learning restrictions</p> <p>Support MAC address black hole</p> <p>Support SSH 2 to provide secure passwords for user login.</p> <p>Support SSL to ensure data transmission security</p> <p>Support port isolation</p> <p>Support the speed limit function of ARP message</p> <p>Support IP source address protection</p> <p>Support ARP intrusion detection function</p> <p>Support against DoS attacks</p> <p>Support port broadcast message suppression</p> <p>Support host data backup mechanism</p> <p>Binding capabilities of IP+MAC+VLAN+ ports</p>
DHCP	<p>Support DHCP Client</p> <p>Support DHCP Snooping</p> <p>Support DHCP Serve</p> <p>Support DHCP Relay</p>
Management And Maintenance	<p>Support Console/AUX Modem/Telnet/SSH2.0 CLI command line configuration</p> <p>Support WEB network management (HTTPS)</p> <p>Support FTP, TFTP, Xmodem, SFTP file download management</p> <p>Support SNMP V1/V2C/V3</p> <p>Support one bond reduction</p> <p>Support NTP clock</p> <p>Support system work log</p> <p>Support Ping detection</p> <p>Support cable state detection</p> <p>Support CPU instant utilization status view</p> <p>Support link layer discovery protocol LLDP</p> <p>Support NMS intelligent management center</p>
System Requirements	<p>Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later;</p> <p>Cat5e or later Ethernet cable;</p>

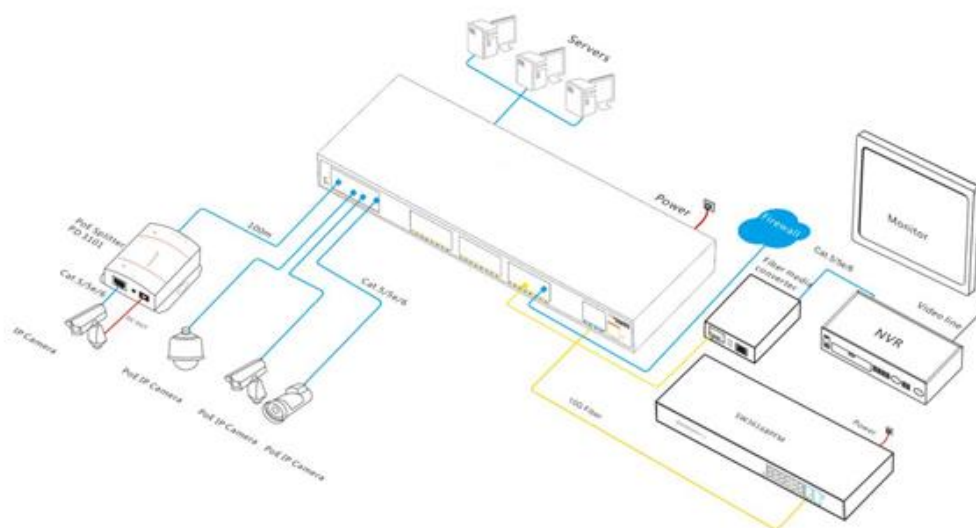
	TCP/ IP, network adapter and network operating system (Microsoft Windows, Linux or Mac OS X) installed on every computer in the network.
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Dimension



- A. Working indicator
- B. 8*10/100/1000M PoE ports
- C. 24*100/1000M uplink SFP fiber slot ports
- D. 4*1/10G uplink SFP+ fiber slot ports
- E. Console port
- F. Power input port AC100-240V, 50/60Hz

Application



Packing List

Packing List	CONTENT	QTY	UNIT
	36-Port 10G uplink layer three managed PoE fiber switch (G-SW-M8P24S4+3)	1	SET
	Power Cable	1	PC
	Mounting Kits	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

Note: PoE switch does not match the power supply by default. If you need to purchase it, please refer to the accessory product information.