

GALGUS Switch G-SW-M4P4S

8-port Full Gigabit Managed Fiber PoE Switch



The G-SW-M4P4S series is a layer two plus managed PoE fiber switch. It has 4*10/100/1000Base-T RJ45 ports and 4*100/1000Base-X SFP fiber slot ports . Port 1-4 can support IEEE 802.3af/at standard PoE power supply. single port PoE power reaches 30W, and the maximum PoE output power is 65W(at-130W). 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 hotels, campuses, parks, shopping malls, scenic spots, hospitals, factory dormitory and small and medium-sized enterprise.

The G-SW-M4P4S has the layer two plus 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 access, gigabit (TP/SFP) combo uplink

All series supports "10/100/1000M RJ45 port + Gigabit TP/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 functions

4*10/100/1000Base-T RJ45 ports support PoE power supply to meet the needs of PoE power supply in security monitoring, teleconferencing systems, and wireless coverage.

Conforms to the IEEE 802.3af/at PoE power supply standard, automatically recognizes PoE devices for power supply, without damaging non-POE devices. The maximum POE output power of the entire device reaches 65W, and the maximum POE output power of a single port is 30 W.

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.

Support 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 ERPS industrial fast V-Ring and STP/RSTP/MSTP production tree protocol, eliminates two layers of loops, and realizes link backup.

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.

Self-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), port status indicator (Link)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-M4P4S
Interface	4*10/100/1000Base-T POE ports (Data /Power);
	4*100/1000Base-X SFP ports (Data)
	1*Console RS232 port (115200,N,8,1)
POE Port	Port 1 - 4 support PoE @ IEEE802.3af/at
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T;
	IEEE802.3u 100Base-TX;
	IEEE802.3ab 1000Base-T
	IEEE802.3z 1000Base-X



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	IEEE802.3x			
PoE Standard	IEEE802.3af/at			
Ethernet Port Feature	10/100/1000Base-T,Auto-sensing,Full/half duplex MDI/MDI-X self-adaption			
Fiber Port Feature	Gigabit SFP 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	128Gbps (Non-blocking)			
Forwarding Rate@64byte	11.90Mpps			
MAC	8K			
Buffer Memory	4M			
Jumbo frames	9.6K			
	10BASE-T: Cat3,4,5 UTP(≤100 r	neter);		
Twisted Pair	100BASE-TX: Cat5 or later UTP(≤100 meter);			
Transmission	1000BASE-X: Cat5e or later UTP(≤100 meter)			
		le Mode: 1310nm 0-40KM , 1550nm 0-		
Optical Cable	120KM.	ie Mode. 131011111 0-40KM, 133011111 0-		
Power Supply Pin	Default: 1/2(+), 3/6(-);			
MAX / Average Power Per Port	30W/15.4W	30W/30W		
Total PWR / Input Voltage	65W (AC100-240V)	130W (AC100-240V)		
Power Consumption	Standby:<9W; Full Load:<60W	Standby:<12W; Full Load:<120W		
LED	Power indicator: PWR (green); system indicator: SYS (green); network indicator: Link (yellow); SFP fiber port: L/A (green); POE indicator: PoE (green);			
Dawas Comple	Built in power supply ,	Built in power supply, AC100~240V		
Power Supply	AC100~240V 50-60Hz 1A	50-60Hz 2.3A		
Operation TEMP / Humidity	-20~+55°C; 5%~90% RH Non-condensing			
Storage TEMP / Humidity	-40~+75°C; 5%~95% RH Non-condensing			
Dimension	270*181*44.5mm			
Net /Gross Weight	<1.5kg / <2.0kg			
Installation Method	desktop type ,19 inch 1U cabinet installation			



Port lightning	Port lightning protection : 4KV 8/20us;				
protection / protection level	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 EEE Ethernet				
	Total power limit of PoE power supply				
	PoE output power allocation per port, close /af/at				
	PoE output priority configuration for each port				
PoE Management	PoE working state display per port				
	Power delay start				
	PoE work and time scheduling				
	Support L2+ managed function,				
	Support IPV4/IPV6 management				
	Support layer3 soft routing (weak three tier) forwarding,				
Layer 3 Function	Support different network segments, communication between different VLAN				
	Support static routing / default routing 128, 1024 ARP software forwarding				
	Support port based VLAN (4K), IEEE802.1q				
	Support protocol based VLAN				
VLAN	Support Access, Trunk, Hybrid three types of port configuration				
	Support QinQ configuration				
	Support LACP				
	Support static polymerization				
Port Aggregation	Support the largest 8 aggregation groups, each aggregation group supports 8 ports.				
	STP (IEEE802.1d)				
Spanning Tree	RSTP (IEEE802.1w)				
	MSTP (IEEE802.1s)				

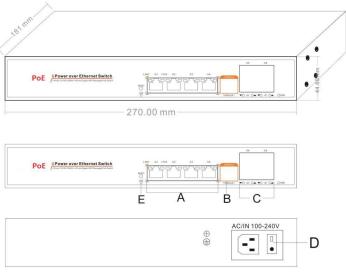


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Industrial Ring	Support G.8032 (ERPS), support 255 loops at most, and supports 1024 devices per ring.
Network Protocol	The self healing time of the ring network is less than 20ms
	Support IGMP Snooping V1/V2 and support 1024 multicast groups at most.
Multicast	Support the user's quick departure mechanism
	Support MLD Snooping V1/V2
	Support multicast VLAN
Image	Bi-directional traffic mirroring supporting the basic port
ge	Diff-Serv QoS
	Each port supports 8 output queues
	Support 802.1p/DSCP priority mapping
	Support queue scheduling mechanism (SP, WRR, SP+WRR)
QoS	priority tag Mark/Remark
	stream based packet filtering
	Support for stream based redirection
	Support flow based speed limit
ACL	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.
	Support ACL based on port and VLAN
	Support user grading management and password protection
	Support IEEE802.1X authentication / centralized MAC address authentication
	Support AAA&RADIUS authentication
	Support the number of MAC address learning restrictions
	Support MAC address black hole
	Support SSH 2 to provide secure passwords for user login.
Safety Characteristics	Support SSL to ensure data transmission security
Ondracteristics	Support port isolation
	Support the speed limit function of ARP message
	Support IP source address protection
	Support ARP intrusion detection function
	Support against DoS attacks
	Support port broadcast message suppression
	Support host data backup mechanism
	Binding capabilities of IP+MAC+VLAN+ ports



DHCP	Support DHCP Client
	Support DHCP Snooping
	Suport DHCP Serve
	Suport DHCP Relay
	Support Console/AUX Modem/Telnet/SSH2.0 CLI command line configuration
	Support WEB network management (HTTPS)
	Support FTP, TFTP, Xmodem, SFTP file download management
	Support SNMP V1/V2C/V3
Management	Support one bond reduction
And Maintenance	Support NTP clock
	Support system work log
	Support Ping detection
	Support cable state detection
	Support CPU instant utilization status view
	Support link layer discovery protocol LLDP
	Support NMS intelligent management center
System Requirements	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later;
	Cat5e or later Ethernet cable;
	TCP/ IP, network adapter and network operating system (Microsoft Windows, Linux or Mac OS X) installed on on every computer in the network.

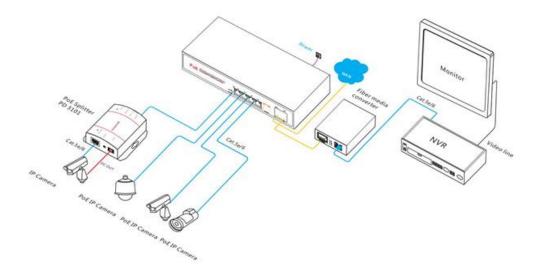
Dimension



A. 4*10/100/1000M PoE ports B. Console ports
C. 4*100/1000M SFP ports D. Power input port AC100-240V 50/60Hz
E. working indicator



Application



Packing List

	CONTENT	QTY	UNIT
Packing List	8-port full gigabit managed fiber PoE switch (G-SW-M4P4S)	1	SET
	AC Power Cable	1	PC
	RJ45-DB9 Line	1	PC
	Mounting Kits(Hanging Ear)	1	SET
	User Guide	1	PC
	Warranty Card	1	PC

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