



GALGUS SWITCH G-SW-M8P2S

8xGbps PoE +2xSFP Gigabit L2+ Managed PoE Switch



The G-SW-M8P2S series is a full gigabit managed PoE. It has 8x10/100/1000Base-T RJ45 PoE ports and 2x100/1000Base-X 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 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 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-M8P2S has the layer two plus full Web 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 management mode.



FEATURES

■ Gigabit access, gigabit TP/SFP (combo port) uplink

- ◇ All series supports Gigabit Ethernet port and gigabit 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

- ◇ 8x10/100/1000Base-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 up to 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 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.
- ◇ Its 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

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

Interface	8x10/100/1000Base-T PoE ports (Data/Power) 2x100/1000Base-X uplink SFP ports (Data) 1xConsole 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 IEEE802.3x
PoE Standard	IEEE802.3af/at standard
Ethernet Port Features	10/100/1000BaseT(X) auto detect, full/half duplex MDI/MDI-X adaptive
Fiber Port Features	Gigabit 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	192Gbps (non-blocking)
Forwarding Rate@64byte	17.86Mpps
MAC	8K
Buffer Memory	4M
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 0~500M Single-mode:1310nm 0~40KM,1550nm 0~120KM.
Power Supply Pin	Default: 1/2(+),3/6(-)
Max / Average Power Per Port	30W/30W
Total PWR / Input Voltage	250W (AC100-240V)
Power Consumption	Standby<10W;Full Load<240W
LED Indicator	Power indicator: PWR(green); system indicator: SYS(green); Network indicator: Link/Act (yellow); PoE indicator: PoE (green); SFP fiber port : L/A(green)



Power Supply	Built-in switching power supply, AC 100~240V 50-60Hz 4.1A
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 Method	desktop type ,19 inch 1U cabinet installation
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;
Managed Series Feature	
Interfaces	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
Layer 3 Function	Support L2+ managed function, Support IPV4/IPV6 management Support layer3 soft routing (weak three tier) forwarding, Support different network segments, communication between different VLAN Support static routing / default routing 128, 1024 ARP software forwarding
VLAN	Support port based VLAN (4K), IEEE802.1q Support protocol based VLAN Support Access, Trunk, Hybrid three types of port configuration Support QinQ configuration
Port Aggregation	Support LACP



	<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>



	<ul style="list-style-type: none">Support port isolationSupport the speed limit function of ARP messageSupport IP source address protectionSupport ARP intrusion detection functionSupport against DoS attacksSupport port broadcast message suppressionSupport host data backup mechanismBinding capabilities of IP+MAC+VLAN+ ports
DHCP	<ul style="list-style-type: none">Support DHCP ClientSupport DHCP SnoopingSupport DHCP ServeSupport DHCP Relay
Management Maintenance	And <ul style="list-style-type: none">Support Console/AUX Modem/Telnet/SSH2.0 CLI command line configurationSupport WEB network management (HTTPS)Support FTP, TFTP, Xmodem, SFTP file download managementSupport SNMP V1/V2C/V3Support one bond reductionSupport NTP clockSupport system work logSupport Ping detectionSupport cable state detectionSupport CPU instant utilization status viewSupport link layer discovery protocol LLDPSupport ONV NMS intelligent management center
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> <p>TCP/ IP, network adapter and network operating system (Microsoft Windows, Linux or Mac OS X) installed on on every computer in the network.</p>