

# GALGUS Switch G-SW-M4G2S

## 6-port Full Gigabit Managed Ethernet Switch



The G-SW-M4G2S is a full gigabit L2+ managed Ethernet fiber switch. It has 4\*10/100/1000Base-T RJ45 ports and 2\*100/1000Base-X SFP fiber slot ports. Each port can support wire-speed forwarding.

The G-SW-M4G2S 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(<20ms) 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 port traffic control, VLAN division, and SNMP through the Web network management mode. It satisfies high-density network application environment and is suitable for medium, large-scale scenes such as hotel, campus, park, shopping mall, scenic spot, hospital, bank to form an economical, efficient and reliable communication network.

## Main Features

### Gigabit access, Gigabit SFP fiber port uplink

All series 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.

### Security

802.1X authentication.

Port isolation, Storm control.

IP-MAC-VLAN-Port binding.

### 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.

### Stable and reliable

CCC, CE, FCC, RoHS.

Low power consumption, galvanized steel casing, The fan active cooling.

Self-developed power supply, high redundancy design, providing a long term and stable power output.

The user-friendly panel, it can show the device status through the LED indicator of PWR, Link.

### 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.

# Technical Specifications

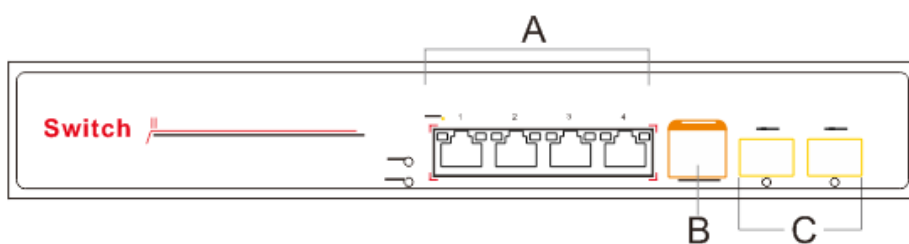
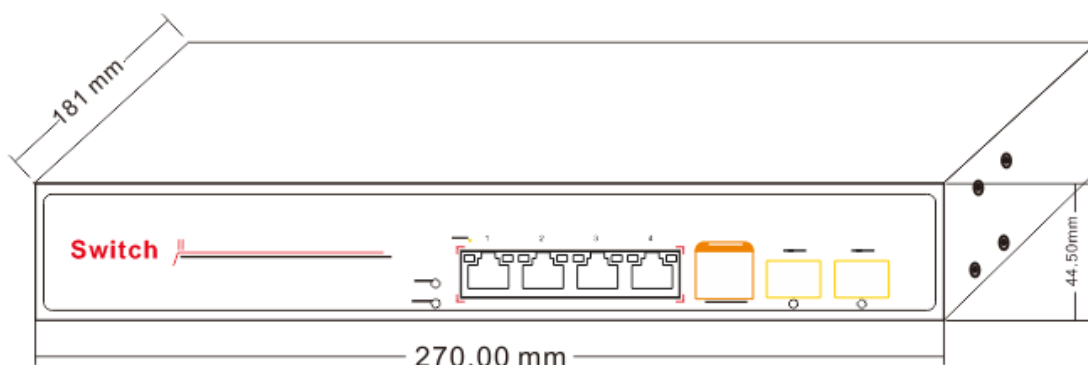
Model	G-SW-M4G2S
Interface Characteristics	
Fixed Port	<p>4*10/100/1000Base-T RJ45 ports (Data)</p> <p>2*100/1000Base-X uplink SFP slot ports (Data)</p> <p>1 * RS232 console port(115200,N,8,1)</p>
Ethernet Port	Port 1-4 support 10/100/1000Base-T auto-sensing, full/half duplex MDI/MDI-X self-adaption
Twisted Pair Transmission	<p>10BASE-T: Cat3,4,5 UTP(≤100 meter)</p> <p>100BASE-TX: Cat5 or later UTP(≤100 meter)</p> <p>1000BASE-T: Cat5e or later UTP(≤100 meter)</p>
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.
Chip Parameter	
Network Management Type	L2+
Network Protocol	<p>IEEE802.3 10BASE-T; IEEE802.3i 10Base-T;</p> <p>IEEE802.3u 100Base-TX;</p> <p>IEEE802.3ab 1000Base-T</p> <p>IEEE802.3z 1000Base-X</p> <p>IEEE802.3x</p>
Forwarding Mode	Store and Forward(Full Wire Speed)

Switching Capacity	128Gbps	
Forwarding Rate@64byte	5.95Mpps	
MAC	8K	
Buffer Memory	4M	
Jumbo Frame	9.6K	
LED Indicator	Power:PWR(green), system :SYS(green), network ;Link (yellow),Fiber port: L/A(green)	
Reset Switch	Yes, One-button factory reset	
Power		
Total PWR / Input Voltage	30W/ (AC100-240V)	
Power Consumption	Standby<6W, Full load<10W	
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 0.65A	
Physical Parameter		
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	<1.2kg / <1.7kg	
Installation	Desktop, wall-mounted,19 inch 1U cabinet	
Certification & Warranty		
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.	
Network Management Features		
Interface	IEEE802.3X (Full-duplex)	

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

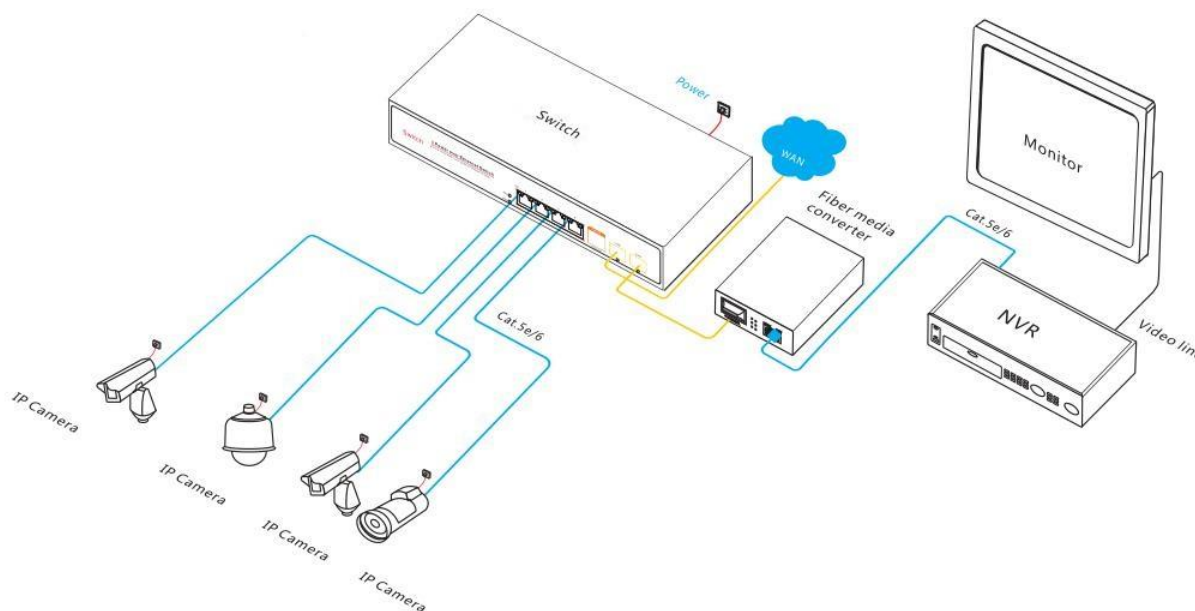
	L2 to L4 packet filtering, matching first 80 bytes message. Provide ACL based on MAC, Destination MAC address, IP Source, Destination IP, IP Protocol Type, TCP/UDP Port, TCP/UDP Port Range, and VLAN, etc.
Security	<p>IP-MAC-VLAN-Port binding</p> <p>ARP inspection, Anti-DoS attack</p> <p>AAA &amp; RADIUS, 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	DHCP Client, DHCP Snooping, DHCP Server, DHCP Relay
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>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. 4\* 10/100/1000M RJ45 ports
- B. Console port
- C. 2\*Gigabit SFP ports
- D. Power input port AC100-240V,50/60Hz

# Application



## Packing List

	CONTENT	QTY	UNIT
PACKING LIST	6-port full gigabit managed Ethernet switch	1	SET
	RJ45-DB9 Line	1	PC
	AC Power Cable	1	PC
	Mounting Kits(Hanging Ear)	1	SET
	User Guide	1	PC
	Warranty Card	1	PC