

GALGUS Switch G-SW-M2G12S

14-Port Full Gigabit Managed Ethernet Fiber Switch



G-SW-M2G12S series is a full gigabit managed Ethernet fiber switch. It has 2*10/100/1000Base-T RJ45 ports and 12*100/1000Base-X SFP fiber slot ports. Each port can support wire-speed forwarding.

The G-SW-M2G12S has L2+ full network management function, supports IPV4/IPV6 management, static route full line rate forwarding, 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(<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 multi-optical port access, wire-speed forwarding

All series supports "Gigabit Ethernet port and Gigabit SFP fiber slot 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.



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.

Security

802.1X authentication.

Port isolation, Storm control.

IP-MAC-VLAN-Port binding.

Stable and reliable

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

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

CCC,CE, FCC, RoHS.

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

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-M2G12S			
Interface Characteristics				
Fixed Port	2*10/100/1000Base-T RJ45 ports (Data)			
	12*100/1000Base-X SFP ports (Data)			
	1*Console RS232 port (115200,N,8,1)			
Ethernet Port	Port 1-2 support 10/100/1000Base-T,auto-sensing,Full/half duplex			
	MDI/MDI-X self-adaption			
Twisted Pair	10BASE-T: Cat3,4,5 UTP(≤100 meter)			
Transmission	100BASE-TX: Cat5 or later UTP(≤100 meter)			
	1000BASE-T: Cat5e or later UTP(≤100 meter)			
SFP Slot Port	Gigabit SFP optical fiber interface, default not matching optical			
	modules (optional order single-mode / multi-mode, single fiber / dual fiber optical module. LC)			
SFP Port Expansion	Turbo overclocking 2.5G optical module and ring			
·	Multi mode: 850nm 0 ~ 550M, single mode: 1310nm 0 ~ 40KM,			
Optical Cable	1550nm 0 ~ 120KM.			
Chip Parameter				
Network	L2+			
Management Type				
	IEEE802.3 10BASE-T, IEEE802.3i 10Base-T			
Network Protocol	IEEE802.3u 100Base-TX, IEEE802.3u 100Base-FX,			
	IEEE802.3ab 1000Base-T, IEEE802.3z 1000Base-X			
	IEEE802.3x			
Forwarding Mode	Store and Forward(Full Wire Speed)			
Switching Capacity	256Gbps			
Forwarding	20.83Mpps			
Rate@64byte				
MAC	8K			



Buffer Memory	6M			
Jumbo Frame	9.6K			
LED Indicator	Power: PWR (yellow), System: SYS(yellow), Network: Link (yellow), fiber port: L/A (green)			
Reset Switch	yes, support one key to restore factory settings			
Power				
Total PWR / Input Voltage	30W (AC100-240V)			
Power Consumption	Standby<8W, Full Load<15W			
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 1A			
Physical Parameter				
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)	270*181*44.5mm			
Net /Gross Weight	<1.5kg / <2kg			
Net /Gross Weight Installation	<1.5kg / <2kg Desktop, wall mounted,19 inch 1U cabinet installation			
	Desktop, wall mounted,19 inch 1U cabinet installation			
Installation	Desktop, wall mounted,19 inch 1U cabinet installation			
Installation Certification & Warro Lightning protection /	Desktop, wall mounted,19 inch 1U cabinet installation			
Installation Certification & Warro Lightning protection / protection level	Desktop, wall mounted,19 inch 1U cabinet installation Inty Lightning protection: 6KV 8/20us; Protection level: IP30 CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B;			
Installation Certification & Warro Lightning protection / protection level Certification	Desktop, wall mounted,19 inch 1U cabinet installation Inty Lightning protection: 6KV 8/20us; Protection level: IP30 CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS; 3 years, lifelong maintenance.			
Installation Certification & Warro Lightning protection / protection level Certification Warranty	Desktop, wall mounted,19 inch 1U cabinet installation Inty Lightning protection: 6KV 8/20us; Protection level: IP30 CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS; 3 years, lifelong maintenance.			
Installation Certification & Warro Lightning protection / protection level Certification Warranty Network Managemen	Desktop, wall mounted,19 inch 1U cabinet installation Inty Lightning protection: 6KV 8/20us; Protection level: IP30 CCC;CE mark, commercial; CE/LVD EN60950;FCC Part 15 Class B; RoHS; 3 years, lifelong maintenance. t Features IEEE802.3X (Full-duplex)			



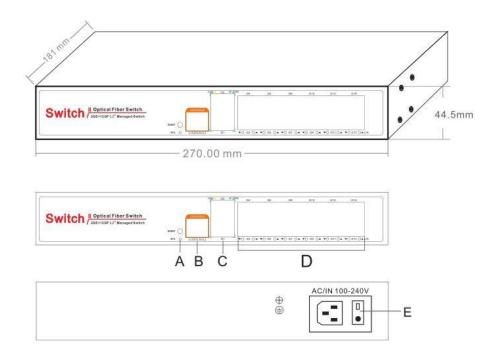
	The speed limit of the message flow in the access port.		
	The minimum particle size is 64Kbps.		
Layer 3 Features	L2+ network management ,IPV4/IPV6 management		
	L3 soft routing forwarding,		
	Static route, Default route @ 128 pcs, APR @ 1024 pcs		
	VLAN based on MAC		
	VLAN based on the protocol		
VLAN	Voice VLAN, QinQ configuration		
	4K VLAN based on port, IEEE802.1q		
	Port configuration of Access, Trunk, Hybrid		
D 1 A 11	LACP, Static aggregation		
Port Aggregation	Max 7 aggregation groups and 8 ports per group.		
Spanning Tree	STP (IEEE802.1d),RSTP (IEEE802.1w),MSTP (IEEE802.1s)		
Industrial Ring	G.8032 (ERPS),Recovery time less than 20ms		
Network Protocol	250 Ring at most, Max 250 devices per ring.		
M. Ili's mat	MLD Snooping v1/v2,Multicast VLAN		
Multicast	IGMP Snooping v1/v2, Max 1024 multicast groups, Fast log out		
Port Mirroring	Bidirectional data mirroring based on port		
	Flow-based Rate Limiting		
	Flow-based Packet Filtering		
	8*Output queues of each port		
QoS	802.1p/DSCP priority mapping		
	Diff-Serv QoS,Priority Mark/Remark		
	Queue Scheduling Algorithm (SP, WRR, SP+WRR)		
	Port-based Issuing ACL,ACL based on port and VLAN		
ACL	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	IP-MAC-VLAN-Port binding
	ARP inspection,Anti-DoS attack
	AAA & RADIUS,MAC learning limit
	Mac black holes,IP source protection
	IEEE802.1X & MAC address authentication
	Broadcast storm control,Backup for host datum
	SSH 2.0,SSL,Port isolation,ARP message speed limit
	User hierarchical management and password protection
DHCP	DHCP Client,DHCP Snooping,DHCP Server,DHCP Relay
	One-key recovery
	Cable Diagnose,LLDP
	Web Management (HTTPS)
	NTP,System work log,Ping Test
Management	CPU instant utilization status view
	Console/AUX Modem/Telnet/SSH2.0 CLI
	Download & Management on FTP, TFTP, Xmodem, SFTP, SNMP V1/V2C/V3
	NMS - smart network management system platform(LLDP+SNMP)
	Category 5 Ethernet network cable
System	Web browser: Mozilla Firefox 2.5 or higher, Google browser chrome V42 or higher, Microsoft Internet Explorer10 or later;
	TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in a network



Dimension



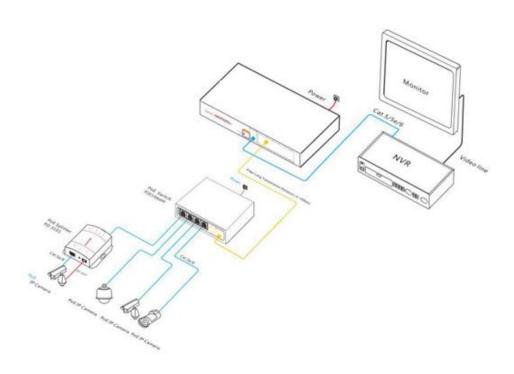
A. Working indicator

B. Console port

C.2*10/100/1000M RJ45 ports D.12*100/1000M SFP ports

E.AC100-240V,50/60Hz

Application





Packing List

	CONTENT	QTY	UNIT
PACKING LIST	14-port full gigabit managed Ethernet fiber switch	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