

GALGUS SWITCH G-SW-M48G4+3

52-Port 10G Uplink Layer Three Managed Ethernet Switch



The G-SW-M48G4+3 series is a 10G uplink layer three managed Ethernet fiber switch. It has 48*10/100/1000Base-T RJ45 ports and 4*1/10G SFP+ fiber slot ports. Each port can support wirespeed forwarding.

The G-SW-M48G4+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 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 hotels, campuses, parks, shopping malls, scenic spots, hospitals, banks to form an economical, efficient and reliable communication network.

Main Features

Gigabit access, 10G uplink

All series supports "Gigabit Ethernet port and 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.



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 ≤ 20ms

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), 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-M48G4+3		
Interface	48*10/100/1000Base-T RJ45 ports (Data)		
	4*1/10G uplink SFP+ fiber slot ports (Data)		
	1*Console RS232 port (115200,N,8,1)		
Managed Type	L2+ L3		
	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T;		
	IEEE802.3u 100Base-TX;		
	IEEE802.3ab 1000Base-T		
Network Protocol	IEEE802.3z 1000Base-X		
	IEEE802.3ae 10GBase-SR/LR		
	IEEE802.3x		
PoE Standard	IEEE802.3af/at international standard		
Ethernet Port Feature	Port 1-48 can support 10/100/1000Base-T, 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	131Mpps		
MAC	32K		
Buffer Memory	32M		



	10BASE-T:Cat3,4,5 UTP(≤100 meter) ;			
Twisted Pair Transmission	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.			
Total PWR / Input Voltage	60W (AC100-240V)			
Power Consumption	Standby<35W; Full Load<60W			
Power Supply	Built-in power supply, AC 100~240V 50-60Hz 1A			
LED Indicator	Power indicator:PWR(yellow); system indicator:SYS(yellow); network indicator: Link(yellow); 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	<4.4kg / <5.0kg			
Lightning	Lightning protection :4KV 8/20us;			
protection / Protection Level				
Certification	CCC;CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;			
Warranty	3 years , lifelong maintenance.			
Managed Series Fed	nture			
	IEEE802.3x flow control (full duplex)			
	Broadcast storm suppression for port rate			
Interface	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			
	Support L2+ managed function,	Support L3 managed function		
Layer3 Function		Support IPV4/IPV6 management		
	Support IPV4/IPV6 management	Support layer 3 of software line speed forwarding. Support different network segments,		



	Support layer3 soft routing (weak three tier) forwarding,	communication between different VLAN	
	Support different network segments, communication between different VLAN	Static routing/default routing,128 maximum entries ARP protocol, 1024 maximum	
	Support static routing / default routing 128, 1024 ARP software forwarding	entries	
	Support port based VLAN (4K), I	 EEE802.1q	
	Support protocol based VLAN		
VLAN	Support Access, Trunk, Hybrid three types of port configuration		
	Support QinQ configuration		
	Support LACP		
Port Aggregation	Support static polymerization		
	Support the largest 8 aggregation groups, each aggregation group supports 8 ports.		
	STP (IEEE802.1d)		
Spanning Tree	RSTP (IEEE802.1w)		
	MSTP (IEEE802.1s)		
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 s	upporting the basic port	
	Diff-Serv QoS		
	Each port supports 8 output queues		
	Support 802.1p/DSCP priority m	apping	
	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		

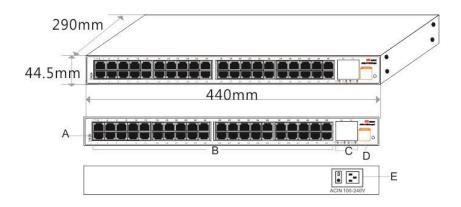


	address, IP protocol type, TCP/UDP port, TCP/UDP port range, VLAN and other definition ACL.		
	Support ACL based on port and VLAN		
	Support user grading management and password protection		
	Support IEEE802.1X authentication / centralized MAC address authentication		
	Support AAA&RADIUS authentication		
	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		
Characteristics	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		
	Support DHCP Client		
	Support DHCP Snooping		
DHCP	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		
	Support one bond reduction		
Management And	Support NTP clock		
Maintenance	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;
Requirements	TCP/ IP, network adapter and network operating system (Microsoft Windows, Linux or Mac OSX) installed on on every computer in the network.

Dimension



A. Working indicator

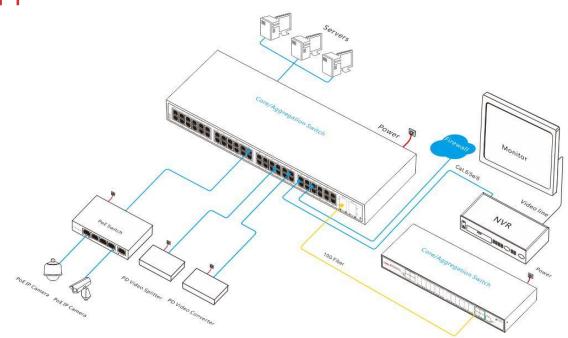
B. 48* 10/100/1000M RJ45 ports

C. 4*1/10G SFP+ ports

D.Console port

E. Power input port AC100-240V,50/60Hz

Application





Packing List

PACKING LIST	CONTENT	QTY	UNIT
	52-Port 10G uplink layer three managed Ethernet switch (G-SW-M48G4+3)	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: Ethernet switch does not match the optical module by default. If you need to purchase it, please refer to the accessory product information.