GALGUS Switch G-SW-M24G4+3

28-Port 10G Uplink Layer Three Managed Ethernet Switch

The G-SW-M24G4+3 series is a 10G uplink managed Ethernet fiber switch. It has 24*10/100/1000Base-T RJ45 ports and 4*1/10G SFP+ fiber slot ports. Each port can support wire-speed forwarding.

The G-SW-M24G4+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/Act) 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 Specifications

Model		G-SW-M24G4+3
Interface	24*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		L3
Network Protocol	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u 100Base-TX; IEEE802.3ab 1000Base-T IEEE802.3z 1000Base-X IEEE802.3ae 10GBase-SR/LR IEEE802.3x	
Ethernet Port Feature	Port 1-24 can support 10/100/1000Base-T(X) 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	107.14Mpps	
MAC	32K	
Buffer Memory	32M	
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 0~300M(10G) ,850nm 0~500M (1.25G); Single-mode:1310nm 0~40KM,1550nm 0~120KM.	

Total PWR / Input Voltage	60W (AC100-240V)
Power Consumption	Standby<23W; Full Load<35W
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	<3.5kg / <4.0kg
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.
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
Layer3 Function	Support L3 managed function Support IPV4/IPV6 management Support layer 3 of software line speed forwarding.Support different network segments, communication between different VLAN Static routing/default routing,128 maximum entries ARP protocol, 1024 maximum entries
VLAN	Support port based VLAN (4K), IEEE802.1q Support protocol based VLAN

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	Support Access, Trunk, Hybrid three types of port configuration Support QinQ configuration
Port Aggregation	Support LACP Support static polymerization Support the largest 8 aggregation groups, each aggregation group supports 8 ports.
Spanning Tree	STP (IEEE802.1d) RSTP (IEEE802.1w) MSTP (IEEE802.1s)
Industrial Ring Network Protocol	Support G.8032 (ERPS), support 255 loops at most, and supports 1024 devices per ring. The self healing time of the ring network is less than 20ms
Multicast	Support IGMP Snooping V1/V2 and support 1024 multicast groups at most. Support the user's quick departure mechanism Support MLD Snooping V1/V2 Support multicast VLAN
Image	Bi-directional traffic mirroring supporting the basic port
QoS	Diff-Serv QoS Each port supports 8 output queues Support 802.1p/DSCP priority mapping Support queue scheduling mechanism (SP, WRR, SP+WRR) 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
Safety Characteristics	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.
	Support SSL to ensure data transmission security
	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
Management And Maintenance	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
	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
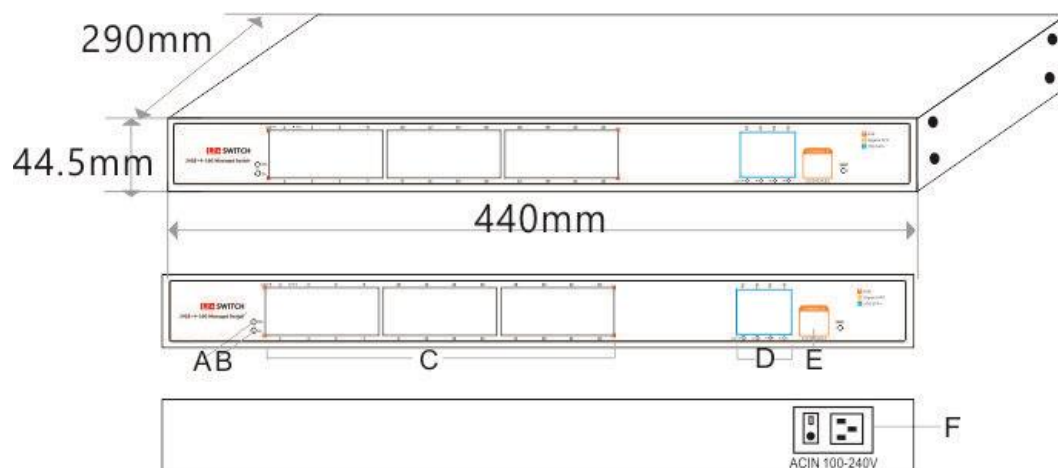
A. PWR LED Indicator   B. SYS LED Indicator
C. 24*10/100/1000M RJ45 Ports   D. 10G SFP Port
E.Console Port
F. Power Input Port - AC100-240V,50/60Hz

Application
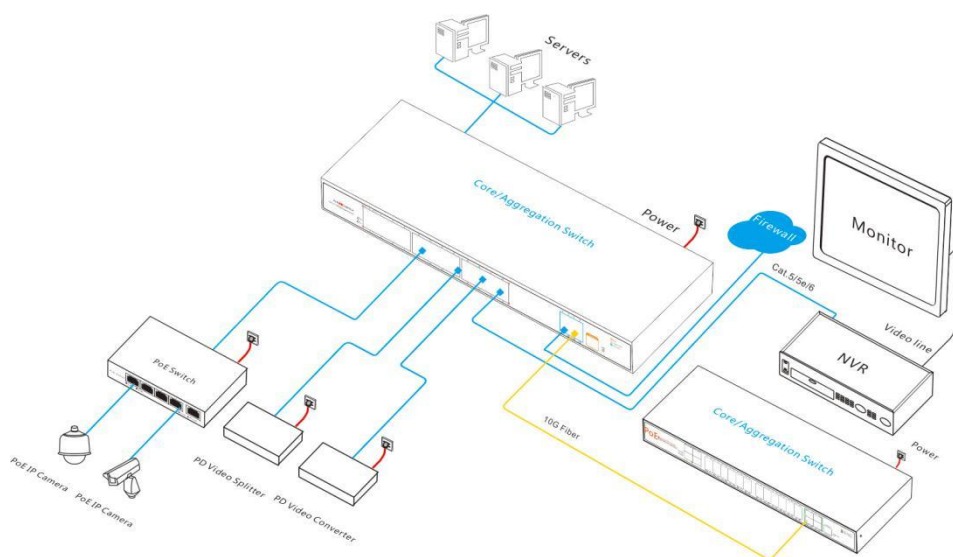
Packing List

	CONTENT	QTY	UNIT
PACKING LIST	28-Port 10G uplink layer three managed Ethernet switch (**G-SW-M24G4+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.