GALGUS SWITCH G-SW-M8P8S

8xGbps PoE + 8xGbps SFP L2+ Managed Switch

- All gigabit design, 8*10/100/1000M PoE ports + 8*Gigabit SFP ports
- 8 PoE ports support power over Ethernet for PDs
- Meet IEEE 802.3af/at PoE standard. Supports per port PoE configuration function
- L2+ features provide better manageability, security, QoS, and performance.
- Support L2+ Switching features including 802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, POE+ management, IP Source Guard, ARP inspection, ACLs etc.
- Support spanning tree STP (802.1D) and RSTP (802.1W).
- Jumbo frames support up to 9.6K kilobytes.
- Support enhanced management through WEB, CLI, TELNET, SSH, SNMP.
- Support cable diagnosis
- G.8032, support <50ms industrial quick ring protection

Description

G-SW-M8P8S managed PoE switch comes with 8*10/100/1000M PoE ports + 8* Gigabit SFP ports. It can supply power to network equipment such as weather-proof IP cameras with windshield wiper and heater, high-performance AP and IP telephone. This managed PoE switch are highly flexible, the transmission distance of the SFP fiber port can be up to 120km, and with high resistance to electromagnetic interference.

G-SW-M8P8S product components were rigorous screened, have superior performance in stability, environmental adaptability. Metal shells have better resistance ability to corrosion and electromagnetic interference, ensure stability and security of this Ethernet Switch. Power input also chooses a suitable and reliable types of power, to get more powerful suitability to environment.
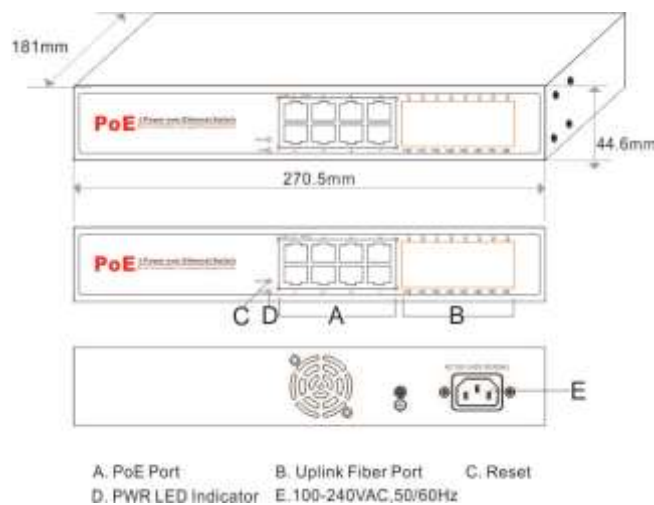
TECHNICAL SPECIFICATIONS

Performance (Switching capacity and forwarding rate)	
Packet Forwarding Rate(Mbps)	23.81
Switching Capacity in Gigabits per Second (Gbps) (Bandwidth)	256

Interface	
Ports	8*10/100/1000M PoE ports + 8*Gigabit SFP ports

Layer 2 Switching	
Spanning Tree Protocol (STP)	Standard Spanning Tree 802.1d Rapid Spanning Tree (RSTP) 802.1w
G.8032 ERPS	<50ms ring protection for industrial high reliable application
Aggregation	Link Aggregation Control Protocol (LACP) IEEE 802.3ad; Up to 13 groups ; Up to 16 ports per group
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) ; Port-based VLAN; 802.1Q tag-based VLAN
IGMP v1/v2 snooping	IGMP limits bandwidth-intensive multicast traffic to only the requesters; supports 1024 multicast groups (source-specific multicasting is not supported)

Security	
Secure Shell (SSH) Protocol	SSH secures Telnet traffic in or out the switch, SSH v1 and v2 are supported
Secure Sockets Layer (SSL), HTTPS	SSL encrypts the http traffic, allowing advance secure access to the browser-based management GUI in the switch
Port Security	Locks MAC Addresses to ports, and limits the number of learned MAC addresses
DHCP Snooping	prevent unauthorized configuration and use of IP addresses, while providing support for IP Source Guard and ARP detection
IP Source Guard	Prevents datagram with spoofed addresses from being in the network
ARP Inspection	Prevent ARP spoofing attacks and ARP
Storm control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
ACLs	Support for up to 256 entries; Drop or rate limitation based on source and destination MAC, VLAN ID or IP address, protocol, port, differentiated services code point (DSCP) / IP precedence, TCP/ UDP source and destination ports, 802.1p priority, Ethernet type, Internet Control Message Protocol (ICMP) packets, IGMP packets, TCP flag

Quality of Service	
Hardware Priority Queue	Support 8 hardware queues
Scheduling	8 COS queues per port support strict priority and weighted round-robin (WRR)
Classification	Port based; 802.1p(PCP) VLAN priority based;
Rate Limiting	Ingress policer; egress shaping and rate control; per VLAN,per port and flow based

Management	(Web/ SSL, Telnet/ SSH, ping, Trivial File Transfer Protocol (TFTP), SNMP, Syslog)
Web GUI interface	Built-in switch configuration utility for browser-based device configuration (HTTP/ HTTPs). Supports configuration, system dashboard, maintenance, and monitoring
Dual Image	Dual image provides independent primary and secondary OS files for backup while upgrading

Firmware upgrade	Web browser upgrade (HTTP/ HTTPs) and TFTP;☐Upgrade through console port as well
Port mirroring	Traffic on a port can be mirrored to another port for analysis with a network analyzer or RMON probe. Up to **N-1 (N is Switch's Ports)** ports can be mirrored to single destination port. A single session is supported.
Other management	Single IP management; HTTP/HTTPs; SSH; RADIUS; DHCP Client; SNTP; cable diagnostics; ping; syslog; Telnet client (SSH secure support)
Green Ethernet	
Green and Energy-saving Ethernet (EEE)	Compliant IEEE802.3az Energy Efficient Ethernet Task Force. Automatically turns off power on Gigabit Ethernet RJ-45 port when detecting link down or Idle of client. Active mode is resumed without loss of any packets when the switch detects the link up
Cable length detection	Adjusts the signal strength based on the cable length. Reduces the power consumption for cables shorter.
General	
Jumbo frames	Frame sizes up to 9KB supported on Gigabit interfaces
MAC Table	Up to 8K MAC addresses.
Discovery	
Link Layer Discovery Protocol (LLDP)	Used by network devices for advertising their identities, capabilities, and neighbors on a IEEE 802 local area network, principally wired Ethernet.

PoE			
PoE Standard:	IEEE802.3af/at	Power:	Max. Power per PoE Port: 30W ; Switch's total power: 250W
PoE Ports:	8 ports support PoE	Power Pin Type:	End-span

Minimum Requirements
Web browser: Mozilla Firefox version 2.5 or later, Microsoft Internet Explorer version 6 or later; Category 5 Ethernet network cable;   TCP/IP, network adapter, and network operating system (such as Microsoft Windows, Linux, or Mac OS X) installed on each computer in network

Environmental (preliminary)	
Dimensions	270.5*181*44mm
Working Environment	Operating temperature: -20 to 55 ℃; Storage temperature: -20℃ to 75 ℃; Operating humidity: 5% to 95% , relative, non-condensing

Dimmensions

A. PoE Port   B. Uplink Fiber Port   C. Reset
D. PWR LED Indicator   E.100-240VAC,50/60Hz

Applications