



GES-802M

8 x 10/100/1000Base-Tx and 2 x 100/1000Base-X SFP Managed Switch

The GES-802M is a 10 port Gigabit Ethernet managed Switch with 8x 10/100/1000Base-Tx & 2x 100/1000Base-X SFP multi-rate slots. The managed switch supports a variety of Ethernet functions including STP/RSTP/MSTP and multiple sub-Ring for redundant cabling, layer 2 Ethernet IGMP, VLAN, QoS, Security, bandwidth control, port mirroring and is housed in 1RU 19" metal housing with mounting brackets. All managed switches have strong surge protection (2kV-4kV) per port, depending on models.

Features

- 8x 10/100/1000Base-T RJ-45 and 2x SFP ports
- QoS, CoS, bandwidth control for Ingress and Egress, Storm Control
- Operating temperature: 0 to +50 Celsius
- AC power input 100-240V (C14 socket)
- STP, RSTP, MSTP for redundant cabling
- DHCP Server/Client/Relay/Snooping
- 1RU 19" metal casing with rack mounting bracket
- Dynamic IEEE 802.3ad LACP Link Aggregation, Static Link Aggregation
- Supports 4kV surge protection per port on all TP ports
- Web based management, SNMP v1/v2, Telnet
- Supports IEEE 802.1Q Tag VLAN and port VLAN
- IGMP snooping V1/V2/V3, IGMP Filtering/ Throttling, IGMP query
- Port based and MAC based IEEE802.1X, RADIUS, ACL
- Software upgrade via TFTP and HTTP
- Port mirroring, System log, DNS, SNTP, LLDP

Specifications

IEEE Standard	IEEE 802.3 10Base-T Ethernet IEEE 802.3u 100Base-TX and 100Base-FX Fast Ethernet IEEE 802.3ab 1000Base-T and 1000Base-X Gigabit Eth. IEEE 802.3x Flow Control and Back Pressure	Single AC 100-240V input power (C14 outlet)
Switch Architecture	Back-plane (Switching Fabric): 20 Gbps	<15W
Data Processing	Store and Forward	0 ~ 50°C
Flow Control	IEEE 802.3x flow control, back pressure flow control	
Provides Broadcast Storm Protection	Present	
MAC Address Table	8K	
Packet Buffer Size	4MB	
Ports	8 x RJ-45 10/100/1000Base-Tx 2 x 100/1000Base-X SFP slot ports 10/100/1000Base-TX auto negotiation speed, Auto MDI/MDI-X function, Full/Half duplex	
Network Cable	10Base-T: 2-pair UTP/STP Cat.5 cable 100Base-TX: 2-pair UTP/STP Cat. 5 cable 1000Base-T: 4-pair UTP/STP Cat. 5e cable EIA/TIA-568 100-ohm (100m)	
Protocols	CSMA/CD	
LED	Per unit: PWR (Green) LNK/ACT (Green - Fiber port status and activity) Per port: Link/Active (Green), Speed/100 (Yellow)	
Operating Humidity	5% to 95% (Non-condensing)	
Storage Temperature	-20 ~ 70°C	
Housing	Metal enclosure with grounding, IP30 Protection	
Dimensions	380 x 295 x 40mm (L x W x H)	
Weight	1.7kg	
Installation Mounting	19" rack 1RU mounting metal brackets	
EMI	FCC Part 15 Subpart B Class A, CE EN 55022 Class A	
MTBF	120,000Hrs	
Warranty	2 years	

Software Specifications

Topology

VLAN	IEEE 802.1q VLAN, up to 4094 IEEE 802.1q VLAN, up to 4094 Groups IEEE 802.1ad Q-in-Q MAC-based VLAN, up to 256 entries
Link Aggregation (Port Trunk)	Static (Hash with SA, DA, IP, TCP/UDP port), up to 5 trunk group Dynamic (IEEE 802.3ad LACP), up to 5 trunk group
Spanning Tree	IEEE802.1d STP IEEE802.1w RSTP IEEE802.1s MSTP
Multiple Ring	supports Sub-Ring type Recovery time <10ms The maximum number of devices allowed in a Ring supported ring is 250.
Loop Protection	Present

QoS Features

Class of Service	IEEE802.1p 8 active priorities queues for per port
Traffic Classification	IEEE802.1p based CoS
Classification QoS	IP Precedence based CoS IP DSCP based CoS QCL(QoS Control List): Frame Type, Source/Destination MAC, VLAN ID, PCP, DEI QCE(QoS Control Entry): Protocol, Source IP, IP Fragment, DSCP, TCP/UDP port number
Bandwidth Control for Ingress	Rate in steps :1 kbps / Mbps Range : 100 kbps to 1Gbps Rate Unit : bit
Bandwidth Control for Egress	Rate in steps : 1 kbps / Mbps Range : 100 kbps to 1Gbps Rate Unit : bit Per queue / Per port shaper
Storm Control	for Unicast, Broadcast, Multicast

DHCP	Server, Client, Relay, Snooping
IP Source Guard	
Port Mirroring	
Event Syslog	Syslog server (RFC3164) (Support 1 server)
Warning Message	System log, alarm relay
DNS	Client, Proxy
NTP	
LLDP (IEEE 802.1ab)	Link Layer Discovery Protocol LLDP-MED

IP Multicasting Features

IGMP / MLD Snooping	IGMP Snooping v1, v2, v3 / MLD Snooping v1, v2 Port Filtering Profile Throttling, Fast Leave Maximum Multicast Group : up to 1022 entries Query / Static Router Port
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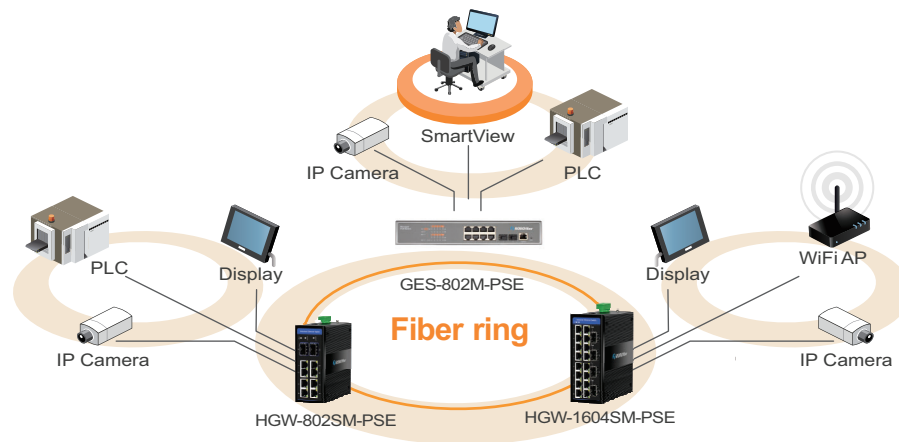
Security Features

IEEE 802.1X	Port-Based MAC-Based
ACL	Number of rules : up to 256 entries for L2 / L3 / L4
RADIUS authentication & accounting	
User Name	Local Authentication
Password	Remote Authentication (via RADIUS)
Authentication	
Management Interface Access	Web, Telnet / RS-232 console
Filtering	

Management Features

Web Based Management	
Telnet	Server
SNMP	V1, V2
SW & Configuration Upgrade	TFTP, HTTP firmware upgrade function

Fiber Ring Application



GES-802M Gigabit Ethernet Managed Switch Application

Ordering Information

Model Name	Description
GES-802M	8x 10/100/1000Base-Tx and 2x 100/1000Base-X SFP ports Managed Switch, Layer 2, AC 90-240V direct input, 19" rack mountable