

MES8112GX-4XGF-8GC

12-Port Layer 3 10 Gigabit Embedded Industrial Ethernet Switch



- ◆ Support 4*10 Gigabit SFP+ Ethernet interfaces and 8*Gigabit Combo photoelectric multiplexing interfaces;
- ◆ Support fast ring network redundancy technology less than 20ms;
- ◆ Support static routing, support RIP, OSPF and other routing protocols;
- ◆ Support optical module DDM diagnosis function;
- ◆ Support IGMP, PIM-SM, PIM-DM and other multicast protocols;
- ◆ The MAC address table supports 16K;
- ◆ Support SNMP, SSH and other network management protocols;
- ◆ Support broadcast, multicast, and unknown unicast storm printing.



Product Description

MES8112GX series is a layer 3 10 Gigabit embedded switch specially designed and developed for industrial communication network convergence layer applications. The switch is mainly used for simple plug-and-play applications. This series of products provides 4 10G SFP+ optical ports and 8 Gigabit optical multiplexed interface configuration models, of which the Gigabit optical ports and 10G optical ports are 1000Base-LX or 10GBase-LR full-duplex single-mode or multi-mode Mode fiber interface, using SFP or SFP+ hot-swappable device, the fiber interface type adopts LC interface. Two redundant 1000Base-LX or 10GBase-LR fiber interfaces can be used to form a fiber redundant ring network. When the system fails, the redundant switching time of the ring network is less than 20ms. The electrical port is a 10/100/1000Base-T Ethernet RJ45 port, RJ45 is shielded, and each RJ45 port has an adaptive function, of which 10/100Base-T supports full-duplex or half-duplex mode, 1000Base-T supports full Duplex mode and automatic MDI/MDI-X connection. Make industrial communication smoother, more reliable, and faster, and meet customers' needs for continuous innovation to improve value-added applications.

Maiwe Communication's layer 3 10G embedded switch provides a wide range of DC power input. In terms of structural installation, MES8112GX series switches use industrial embedded installation. This series of products have the characteristics of high-speed wire-speed forwarding and instant use. The core devices adopt industrial-grade quality design solutions. The products have passed strict tests in line with industry standards and can adapt to harsh industrial site environments. They can be widely used in large coal mines, mine video surveillance, AP wireless communication and other systems large-scale networking site.

Product Features

- ◆ Support 4-way 10G SFP+ Ethernet interface, 8-way Gigabit combo interface;
- ◆ Support VLAN based on IEEE802.1Q;
- ◆ Support EAPS, MSTP, RSTP, STP, ERPS and other redundant protocols;
- ◆ Support static routing, RIP v1/v2, OSPF v1/v2 and other routing protocols;
- ◆ Support IGMP, PIM-SM, PIM-DM and other multicast protocols;
- ◆ The MAC address table supports 16K;
- ◆ Support perfect QOS strategy and multiple queue scheduling algorithms;
- ◆ Support SNMP, SSH and other network management protocols;
- ◆ Support ACL function, provide ACL filtering based on L2-L7 layer data;
- ◆ Support IGMP Snooping detection function;
- ◆ Support broadcast, multicast and unknown unicast storm suppression;
- ◆ Support half-duplex and full-duplex mode flow control;
- ◆ Mean time between failures $\geq 300,000$ hours;
- ◆ Support power alarm and port alarm;
- ◆ Supports optical module DDM diagnosis.



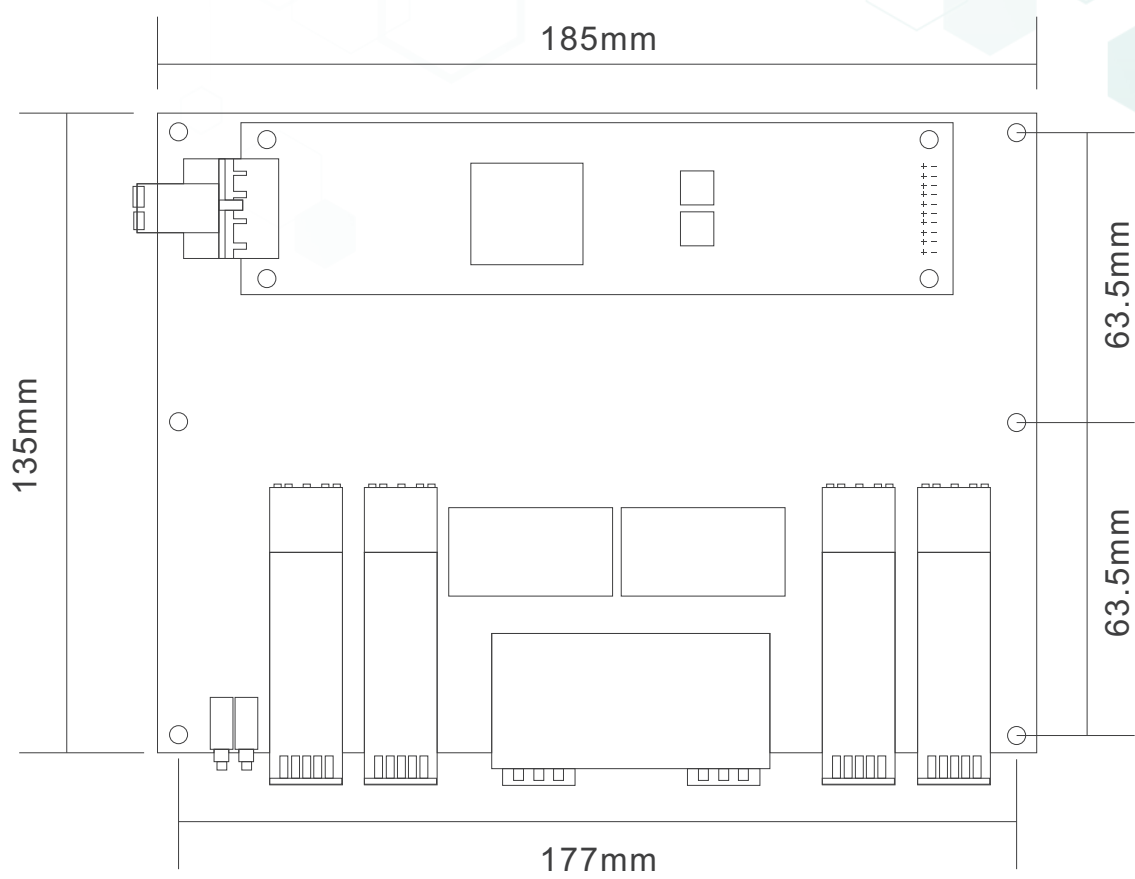
Product Specifications

Parameters	
IEEE Standard	802.3i, 802.3u, 802.3ab, 802.3z, 802.3ae, 802.3ad, 802.3x, 802.1p, 802.1Q, 802.1w, 802.1s, etc.
Switching functions	Support VLAN, GVRP
	Support port speed limit, support storm suppression
	Support port aggregation
	Support port flow control
Redundancy technology	Support VRRP, ERPS
	Support MW-Ring ring network technology
	Support MSTP/RSTP, compatible with STP
Multicast technology	Support IGMP v1/v2/v3, IGMP Snooping
	Support GMRP
	Support static multicast, support PIM-SM, PIM-DM
Routing technology	Support RIPv1/v2, RIPv6, OSPFv1/v2
	Support static routing protocol
Service quality management	Support ACL to filter L2-L7 layer data
	Support SP, WRR queue scheduling
Management and maintenance	Support Console, Telnet, WEB management, RMON
	Support SNMPv1/v2c, can be centrally managed through MaxView
	Support FTP, TFTP file transfer and software upgrade
	Support power failure alarm, power alarm, port alarm, ring network storm alarm
	Supports port mirroring, Syslog, LLDP, RTC, SNTPv4
	IP supports DHCP server/relay/client
Exchange method	store and forward
10 Gigabit port	4 10GBase-X ports
Gigabit port	8 Gigabit photoelectric multiplexing ports
Copper port	Physical interface: RJ45 with shielding, IEEE802.3 standard
	RJ45 port: 10/100/1000Base-T (Gigabit) supports auto-negotiation function
	Transmission distance: 100 meters (standard CAT5/CAT5e cable)
Fiber port	Luminous power: >-12dBm (single mode) >-17dBm (multimode)
	Receiver sensitivity: <-38dBm (single mode) <-35dBm (multimode)
	Wavelength: 1310nm (single-mode) 1550nm (single-mode) 850 nm (multi-mode) 1310 nm (multi-mode)
	Transmission distance: multimode fiber 850nm, 2km; 1310 nm, 2/5km Single-mode fiber 1310nm, 20/40/60km; 1550nm, 20/40/60/80/120km
	Connector Type: LC
	Transmission rate: 1.25Gbps (Gigabit) 10Gbps (10 Gigabit)

Power	Input voltage: DC12/24V
	Input power consumption: 20W (MAX)
	Overcurrent Protection: Built-in
Mechanical	Physical Dimensions (W×H×D): 185mm×63mm×135mm
	Installation method: positioning hole installation
	Heat dissipation form: aluminum alloy single rib chassis surface heat dissipation, no fan
Working environment	Working temperature: -40℃~+70℃
	Storage temperature: -40℃~+85℃
	Humidity: 5%~95% (non-condensing)
EMC	EN61000-4-2 Anti-static (ESD): ±8kV contact discharge, ±15kV air discharge
	EN61000-4-3 Electromagnetic Field: 10V/m (80-1000MHz)
	EN61000-4-6 Anti-conduction: 3V (10kHz~150 kHz), 10V (150kHz~80 MHz)
	EN55022: EN55022 Class A



安装尺寸



Installation Size

