

MES7106GBP-2GF-4GT

6-Port Layer 2 Managed Bypass Embedded Industrial Gigabit Ethernet Switch



- 2*1G bypass fiber ports, 4*1G copper ports
- Support bypass function. Fiber port 5 and fiber port 6 can be connected directly after the device is powered off to ensure normal operation of the network
- Fast ring redundancy with less than 20ms (MW-Ringv1/v2) improves system communication reliability
- Support DC 9-24V power inputs
- Allowing the device to operate reliably in harsh industrial environments ranging from -40°C to +75°C



Product Description

MES7106GBP-2GF-4GT is a 6-port layer 2 Gigabit managed bypass embedded industrial ethernet switch. It supports 2*1G bypass SFP ports and 4*1G copper ports. This switch utilizes a store-and-forward mechanism, providing robust bandwidth processing capabilities while automatically detecting and reducing transmission errors, ensuring stable, reliable, and efficient data transfer. The product adopts industrial-grade components, high-standard system design and production control. It can operate reliably in a wide temperature range from -40°C to +75°C. It is suitable for challenging work environments, ensuring stable communication performance.

MES7106GBP-2GF-4GT supports a range of features and network protocols, including MW-Ring v1/v2, STP/RSTP, VLAN, QoS, static aggregation, port mirroring, static multicast MAC address binding, network diagnostics, and online firmware upgrades. These capabilities enhance network performance, reliability, and security, making it suitable for various complex network requirements. The product has undergone rigorous testing for functionality, temperature resilience, safety compliance. It meets the demands of complex networks and harsh industrial environments and can be widely applied in areas such as comprehensive energy, smart cities, rail transportation, intelligent traffic, smart factories, industrial automation, and more.



Features and Benefits

- Support rate limiting for broadcast, unknown multicast, and unknown unicast packets, with detection and prevention of broadcast and multicast packet storms to avoid network storms
- Support QoS (Quality of Service) to prioritize voice, video, and critical data transmission within network devices, addressing network congestion
- Support 802.1Q VLAN, providing Access, Trunk, and Hybrid interfaces for easy division of multiple broadcast domains, enhancing network security
- Support static multicast MAC address binding to reduce the broadcast of multicast data in the network and save network resources.
- Support link static aggregation and LACP dynamic aggregation to increase transmission bandwidth and enhance link reliability
- Support alarm function, including alarms of port disconnection and ring network status
- Support port mirroring to collect data from port ingress and egress for network detection and fault management
- Support RSTP (Rapid Spanning Tree Protocol) compatible with STP (Spanning Tree Protocol) to eliminate network loops and enhance network reliability
- Support port statistics, including different types of data frames sent and received, and monitors port traffic
- Support guests and administrators, and management of users with different permissions
- Support online restart, factory reset and system upgrade

Specification

Software	
Switching	Support port configuration, port rate limiting, storm suppression, port aggregation, and port statistics Support 802.1Q VLAN and port-based VLAN Support MAC address aging
Redundancy	Support MW-Ringv1/v2 proprietary ring network technology Support ERPS (Ethernet Ring Protection Switching) Support RSTP (Rapid Spanning Tree Protocol) and is compatible with STP (Spanning Tree Protocol)
Multicast	Support static multicast MAC address binding
Management and Maintenance	Support static IP Support QoS (Quality of Service), 802.1P/ DSCP/ port priority mapping, absolute and relative priority control Support port mirroring and ping, alarm Support user management with different permissions, online restart, factory reset, upgrade, and configuration file upload/download Support MixView, and MaxView management
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	14Gbps
Buffer Size	2Mbit
MAC Table Size	2K
Interface	
Gigabit Bypass Fiber Port	2*1000Base-X fiber ports, support bypass function, single-mode simplex fiber LC connector, transmission distance is optional
100/1000M Copper Port	4*10/100/1000Base-T(X) copper ports, support auto MDI/ MDI-X connection, half and full duplex
Button	Restart and factory reset button
Status LED	Power indicator, operation indicator, interface indicator, support external indicator
Power Supply	
Input Voltage	DC9-24V, reverse polarity protection
Power Consumption	<4W@DC12V



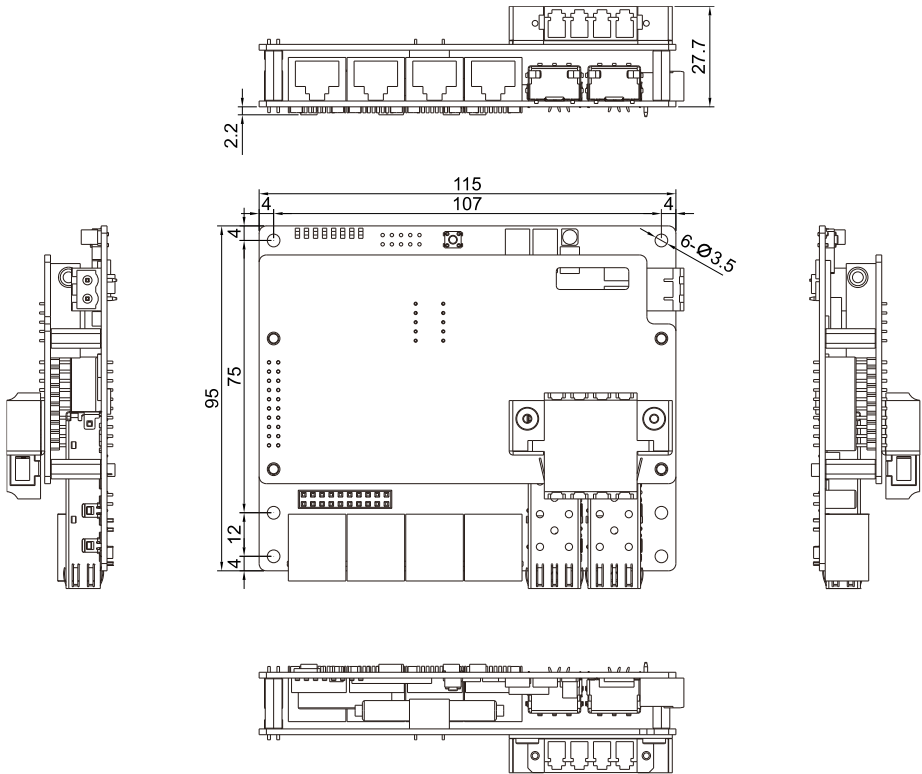
Specification

Connection	5.08mm pitch 2-pin terminal blocks
Physical Characteristics	
Dimensions	115*95*27.2 mm
Installations	Embedded installation
Weight	0.2kg
Working Environment	
Operating Temp	-40°C~+75°C
Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-5(Surge): Level 2 IEC 61000-4-4(EFT): Level 2
Certification	CE, FCC, RoHS



Dimensions

Unit: mm





Ordering Information

Standard Model	1G Bypass Fiber Port	1G Copper Port	Power Voltage
MES7106GBP-2GF-4GT	2	4	DC9~24V



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