

# MES7106GX-2XGF-4GT

## 6-Port Layer 2 10G Managed Embedded Industrial Ethernet Switch



- 2\*10G SFP ports, 4\* 1G copper ports
- Support ring redundancy protocols like MW-Ring v1/v2, ERPS, STP/RSTP to enhance network reliability
- Fast ring redundancy with less than 20ms (MW-Ringv1/v2) improves system communication reliability
- Support 1\*DC 9-36V power input, reverse polarity protection
- Operate reliably in harsh industrial environments ranging from -40°C to +85°C



### Product Description

MES7106GX-2XGF-4GT is a managed embedded industrial Ethernet switch, designed for industrial applications. It supports 2\*10G 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. The switch can operate reliably in a wide temperature range from -40°C to +85°C. It is suitable for challenging work environments, ensuring stable communication performance.

MES7106GX-2XGF-4GT supports a range of features and network protocols, including MW-Ring v1/v2, STP/RSTP, VLAN, LLDP, SNMPv1/v2c/v3, QoS, WEB/TELNET/SSH access control, static aggregation, port mirroring, 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, and electromagnetic compatibility (EMC). 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 LLDP (Link Layer Discovery Protocol) for obtaining LLDP neighbor device information, monitoring link statuses, facilitating topology management, and fault localization
- Support port mirroring to collect data from port ingress and egress for network detection and fault management
- Support link static aggregation and LACP dynamic aggregation to increase transmission bandwidth and enhance link reliability
- Support RSTP (Rapid Spanning Tree Protocol) compatible with STP (Spanning Tree Protocol) to eliminate network loops and enhance network reliability
- Support WEB control with HTTP protocol access control, as well as login IP address restrictions
- Support SNMPv1/v2c/v3 centralized management and SNMPv1/v2c/v3 TRAP messages
- Support port statistics, including different types of data frames sent and received, and monitor port traffic
- Support loopback detection to prevent network loops and associated network storms
- Support device online restart, factory reset and system upgrade

Specification

Software	
Switching	<p>Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, and port statistics</p> <p>Support 802.1Q VLAN</p> <p>Support MAC address aging and static MAC address binding</p>
Redundancy	<p>Support MW-Ringv1/v2 proprietary ring network technology</p> <p>Support RSTP (Rapid Spanning Tree Protocol) and is compatible with STP (Spanning Tree Protocol)</p>
Management and Maintenance	<p>Support WEB, TELNET, and SSH access control</p> <p>Support QoS (Quality of Service), SNMP v1/v2c/v3, and LLDP</p> <p>Support loopback detection, port mirroring, ping and relay alarm</p> <p>Support user permission management, online restart, factory reset, system upgrade, and configuration file upload/download</p> <p>Support MW-NMPv2, MixView, and MaxView management</p>
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	64Gbps
Buffer Size	8Mbit
MAC Table Size	16K
Interface	
10G Fiber Port	2*10GBase-R SFP+ ports
1G Copper Port	4*10/100/1000Base-T(X) copper ports, support auto MDI/ MDI-X connection, half and full duplex mode
Status LED	Power indicator, operation indicator, interface indicator, support external indicator
Power Supply	

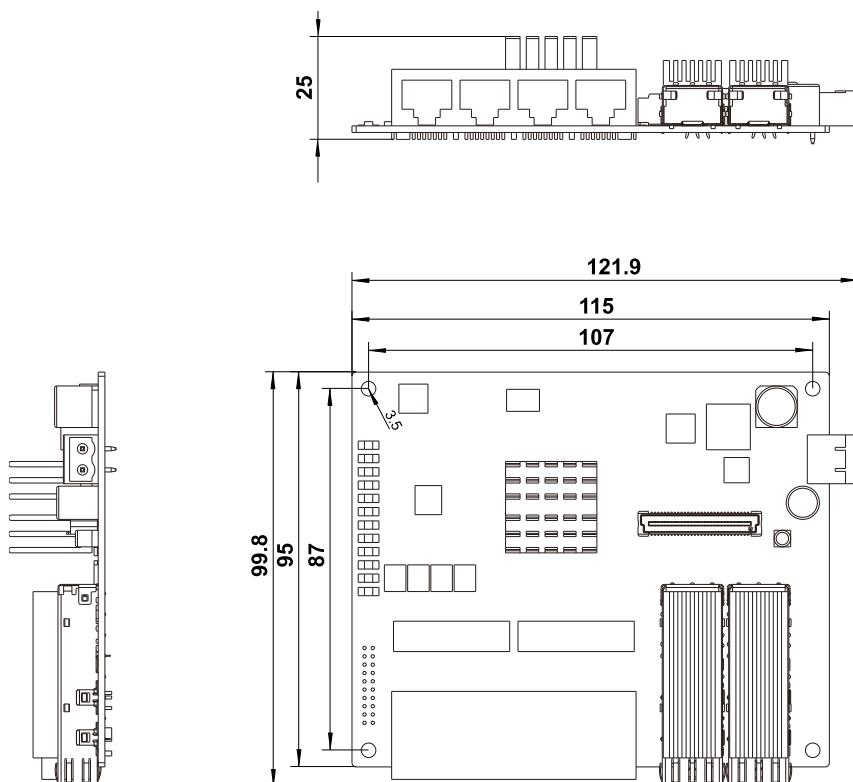
Specification

Input Voltage	DC9-36V
Power Consumption	<6.5W@DC12V
Connection	5.08mm pitch 2-pin terminal blocks
<b>Physical Characteristics</b>	
Dimensions	115×95×25 mm
Installations	Embedded installation
Weight	0.1kg
<b>Working Environment</b>	
Operating Temp	-40°C~+85°C
Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)



## Dimensions

Unit: mm



 Ordering Information

Standard Model	10G Fiber Port	1G Copper Port	Power Voltage
MES7106GX-2XGF-4GT	2	4	DC9~36V

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