

MES5105A-2F

5-Port Layer 2 Managed Embedded Industrial Fast Ethernet Switch



- 2*100M fiber ports, 3*100M copper ports
- Fast ring redundancy with less than 20ms (MW-Ringv1/v2) improves system communication reliability
- Support DC 9-24V power input, comply with intrinsically safe circuit design standards
- Allowing the device to operate reliably in harsh industrial environments ranging from -40°C to +70°C



Product Description

MES5105A-2F is a managed embedded industrial ethernet switch, designed for industrial applications. It supports 2*100M SFP ports and 3*100M 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 fanless hardware design allows it to dissipate heat effectively and operate reliably in a wide temperature range from -40°C to +70°C. It suitable for challenging work environments, ensuring stable communication performance.

MES5105A-2F supports a range of features and network protocols, including MW-Ring v1/v2, STP/RSTP, VLAN, port mirroring, network diagnostics, and online firmware upgrades. These capabilities enhance network performance, reliability, and security, making it suitable for various complex network requirements. 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 alarm function, including alarms such as 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
- Supports port statistics, counts different types of data frames sent and received, and monitors port traffic.
- Supports guests and administrators, and management of users with different permissions
- Supports device online restart, factory settings restoration and system upgrade



Specification

Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, and port statistics Support 802.1Q VLAN, port-based VLAN Support MAC address aging and static MAC address binding
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



Specification

Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	1.2Gbps
Buffer Size	768kbit
MAC Table Size	2K
Interface	
Fiber Port	2*100Base-FX ports, supports single-mode/multi-mode, SC/FC/ST connector, wavelength and transmission distance optional
Copper Port	3*10/100Base-T(X) auto-sensing 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	<2.67W@DC12V
Connection	5.08mm pitch 2-pin terminal block
Physical Characteristics	
Dimensions	94*66*13.6 mm
Installations	Embedded installation
Weight	70g
Working Environment	
Operating Temp	-40°C~+75°C
Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)



Specification

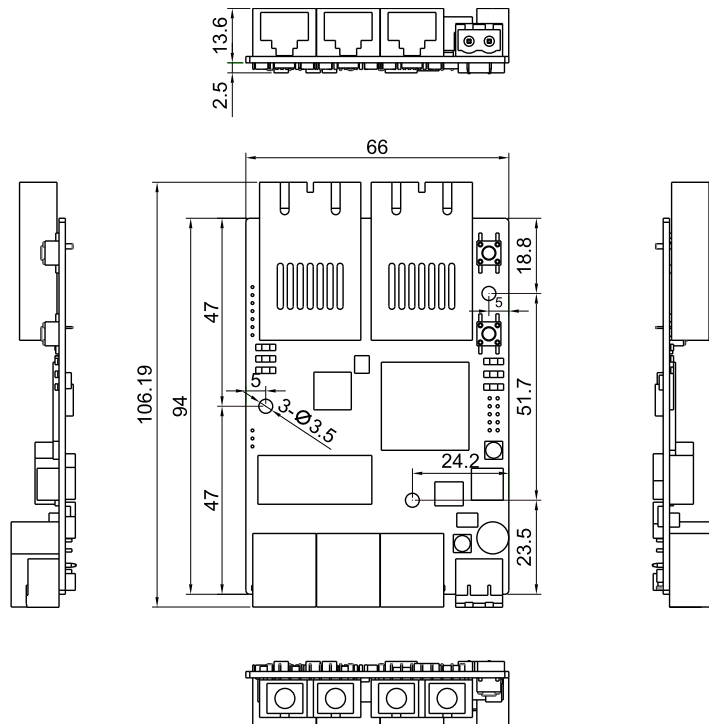
Certification	CE, FCC, RoHS
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Dimensions

Unit: mm

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Ordering Information

Standard Model	100M Fiber Port	100M Copper Port	Power Voltage
MES5105A-2F(M/S)	2	3	DC9~24V



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