



**2GE SFP + 4GE Copper Managed Industrial Switch ( RS485+RS232 )**  
**Size: 110mm\*40mm\*145mm, DIN Rail**

### Overview

MES-304-2S-L2 is a managed industrial switch with 2 Gigabit SFP ports and 4 Gigabit copper ports. It supports the Ethernet Layer 2 protocols required by industrial sites, ensuring the stability of the communication network. The switch supports 1 channel of RS485 and 1 channel of RS232 data, and a version that supports PoE+ is available. This series of switches adopts a low-power, fanless design, ensuring there's no noise interference. It also supports a working temperature of -40°C to +80°C and exhibits strong EMC electromagnetic compatibility performance, ensuring stable operation in harsh industrial environments. It's a reliable solution for establishing fast and stable network terminal access in fields like smart networking, industrial automation, intelligent transportation, video surveillance, smart posts, intelligent water management, and other industrial applications.

### Features

- 4\* 10/100/1000Base-T copper ports and 2\* 1000Base-X SFP ports.
- Supports Single Ring, Intersecting Ring, Chain, and Dual-homing's X-Ring proprietary ring.
- Supports RSTP or ERPS Ring, which can form ring networks with industrial switches from different brands.
- Offers standalone WEB management and supports whole-network SNMP backend management.
- Lightning protection: Common mode 6KV/differential mode 2KV for port, and common mode 6KV/differential mode 4KV for power.
- ESD protection: Contact discharge 8KV, air discharge 15KV.
- Innovative patented technology for monitoring cameras (IP-Camera), which can detect the brand, model, pixel, and operating status of the camera.
- Provides 2 serial ports, defaulting to 1\* RS232 and 1\* RS485.
- Operating temperature is -40 ° C to +80 ° C, suitable for operation within a wide temperature range.

### Specifications

#### Interface and Indicators

Service Ports	4 * 10/100/1000Mbps RJ45 Copper, Full/half duplex MDI/MDI-X adaptive
	2 * 1000Base-X SFP ports
Data Ports	1* RS485 + 1* RS232 as default
LED Indicators	Power: PWR
	Link/Act for copper and SFP ports

#### Ethernet Standards

Standards	IEEE802.3-10BaseT,
	IEEE802.3u-100BaseTX,
	IEEE802.3x-Flow Control,
	IEEE802.3z-1000BaseX,
	IEEE 802.1ab-Link Layer Discovery Protocol (LLDP),
	IEEE802.1D-Spanning Tree Protocol,
	IEEE802.1w-Rapid Spanning Tree Protocol,
	IEEE802.1Q -VLAN Tagging,
	IEEE802.1p -Class of Service,
IEEE802.1X-Port Based Network Access Control and so on	

#### Ethernet Software Features

Management	Supports console management and WEB management
	Supports SNMP
Redundancy Technology	Supports public RSTP or ERPS ring network (specified by the customer)
	Supports SNMP
Multicast	IGMP snooping
Switching Functions	Supports port rate limiting.
	Supports port aggregation.
	Supports port flow control.
	Supports port VLAN, IEEE 802.1Q VLAN.
	Supports broadcast storm suppression.

### Power Parameters

Input Voltage	DC12V~56V (Redundant dual power supply backup)
Power Connector	Phoenix type connector
Dual Power Redundancy	Supported
Reverse Polarity Protection	Supported
Cooling Method	Fanless natural cooling

### Switch Properties

Transmission Mode	Store-and-forward
MAC Table Size	8K
Packet Buffer Size	1Mbit
Switching Capacity	14Gbps
Switching Latency	<10μs
Jumbo Frames	10KBytes
Power	<10W
Packet Transmission Rate	18Mpps

### Environment Limits

Operating Temperature	-40~+80°C(-40~176°F)
Storage Temperature	-40~+85°C(-40~185°F)
Ambient Relative Humidity	5%~95% (non-condensing)

### Physical Characteristics

IP Rating	IP40, aluminum shell
Dimensions	110mm*40mm*145mm
Weight	0.4Kg
Installation	DIN-rail mounting
	Wall mounting

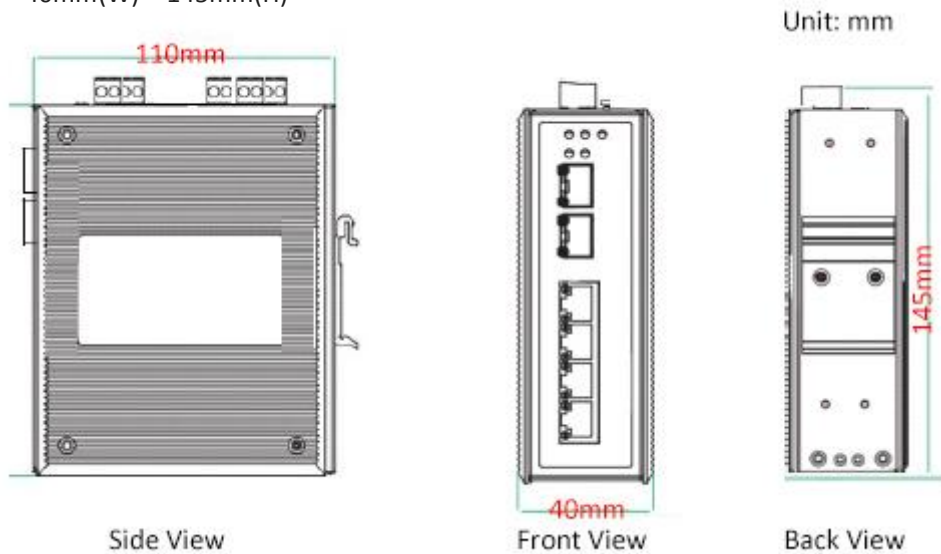
### Industrial Standards

EMI	FCC Part 15 Subpart B Class A, EN 55022 Class A
EMS	IEC(EN)61000-4-2(ESD) : Contact: ±8kV, Air: ±12kV
	IEC(EN)61000-4-3(RS) : 10V/m(80~1000MHz)
	IEC(EN)61000-4-4(EFT) : Ethernet Port: ±4kV CM//±2kV DM ;
	IEC(EN)61000-4-5(Surge): Ethernet Port: ±4kV CM//±2kV DM ;

	IEC(EN)61000-4-6(Conducted RF immunity) : 3V(10kHz~150kHz),10V(150kHz~80MHz)
	IEC(EN)61000-4-16(Conducted common mode disturbances immunity): 30V cont. 300V, 1s
	IEC(EN )61000-4-8
Shock	IEC 60068-2-27
Free Fall	IEC 60068-2-32
Vibration	IEC 60068-2-6
MTBF	300,000 hours
Warranty Period	3 years

### Dimension

110mm(L) \* 40mm(W) \* 145mm(H)



### Ordering Information

Model	Description
MES-304-2S-L2	6GE managed Industrial Ethernet switch with 4* RJ45 copper ports and 2*SFP ports(compatible with both Gigabit Ethernet and Fast Ethernet), supports Web management, supports RSTP/ERPS, X-Ring self-healing ring network, SNMP, unique monitoring IP-Camera operating status function, convenient for field debugging, supports 1*RS485 and 1* RS232, dual DC24V wide voltage input, operating temperature -40~+80°C, DIN rail type, aluminum shell, IP40, size:110mm*40mm*145mm