2*2.5G/1G Fiber+8*GE Copper L2 Managed Industrial PoE Ethernet Switch (RS485+RS232)
Size: 135*135*60mm, Din Rail-mounted

Owerview

The MES-1308-2S-L2 is a 2*2.5G/1G fiber + 8*GE PoE/PoE+ copper ports L2 managed industrial switch. It supports essential layer 2 Ethernet protocols for industrial sites, ensuring network stability and reliability. It has the function of monitoring the working status of IPC cameras with patented technology. The switch features 1RS485 and 1RS232 ports, with low power consumption and a fanless design to eliminate noise interference. It operates within a wide temperature range of -40℃ to +80℃ and has excellent EMC performance for stable operation in harsh industrial environments. This switch is a safe and reliable solution for industrial applications, including intelligent network links, industrial automation, intelligent transportation, video surveillance, smart light poles, and intelligent water systems, providing fast and stable network terminal access.

Features

- 8*10/100/1000Base-T copper ports + 2*2500/1000Base-X SFP ports
- 8*PoE+, compatible with IEEE 802.3af/at standards
- The power supply of the single port is up to 30W, total PoE output power is up to 150W
- Supports detect the PoE mode of the PDs and perform intelligent management such as restarting the PD
- Support X-Ring private rings including single-ring, intersecting-ring, dual homing ring
- Support RSTP or ERPS public ring, which can be combined with different brands of industrial Ethernet switches to form ring networks
- Provide single-set WEB management and support full network SNMP platform management
- Lightning protection: network port common-mode 4KV/Differential-mode 2KV, Power interface common-mode 4KV/Differential mode 2KV
- ESD protection: contact 8KV, air 12KV
- Unique monitoring camera IPC patented technology, which can detect the brand, model, pixel, and working status of the PoE+ network camera
- Provide 2 serial ports, default to 1 RS232 and 1 RS485
- Operating temperature is -40~80°C. The ultra-low temperature version can support -60°C. Suitable for use in severe cold areas
- Supports two channels of digital input/output (including alarm input and alarm output)
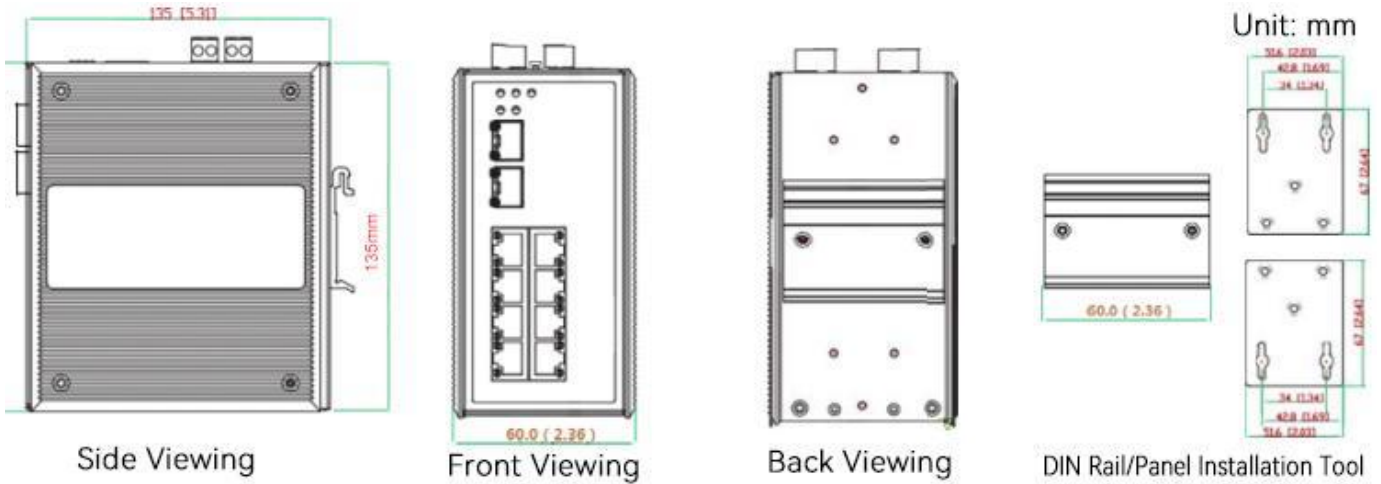
Specification

Model	X9128RP
Interface and Indicators	
Service Ports	8 * 10/100/1000Mbps RJ45 PoE/PoE+ copper ports, Full/half duplex mode, Auto MDI/MDI-X connection
	2* 2500/1000Base-X SFP ports
Data Interface	1*RS232, 1*RS485
LED Indicators	Power: PW1, PW2
	System: RUN
	SFP ports: LINK/ACT
	Copper ports: ACT
	PoE/PoE+: PoE
Digital Input	1xDigital input Wet Contact: 0-0.6V for State 0 　　　　　　　1-24V for State 1 　　　　　　　　Max input current: 5mA Dry Contact: Logic Level 0-Open; Logic Level 1-Close to GND
Alarm Contact	1x Relay output, current capacity 0.5A/12VDC
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
PoE Features	
PoE Standards	IEEE802.3 af, IEEE802.3at
PoE Power	Max. 30W/port@IEEE802.3at
	Max. 15W/port@IEEE802.3af
	Total PoE Budget: Max. 150W
PoE Ports	Port No.1~8 supports PoE/PoE+, automatically detects the standards of devices like IEEE802.3af or IEEE802.3at
Ethernet Software Features	
Management	Supports console, and WEB management
	Supports SNMP
Redundancy Technology	Supports RSTP or ERPS(customer can choose one from them)
	X-Ring private fast ring network
Multicast	IGMP snooping

Switching Functions	Supports port rate limiting.
	Supports port aggregation.
	Supports port flow control.
	Supports port based VLAN, IEEE 802.1Q VLAN.
	Supports broadcast storm suppression.

Power Parameters

Input Voltage	DC48V
Power Connector	Phoenix type terminal block
Dual Power Redundancy	Supported
Reverse Polarity Protection	Supported

Switch Properties

Transmission Mode	Store-and-forward
MAC Table Size	16K
Packet Buffer Size	2Mbit
Switching Capacity	20Gbps
Packet Forwarding Rate	30Mpps
Switching Latency	<10μs
Power Consumption	<10W

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	135 mm* 135mm * 60mm
Weight	0.85kg/piece
Installation	DIN-rail mounting
	Wall mounting
Cooling Method	Fanless natural cooling

Industrial Standards

EMI	FCC Part 15 Subpart B Class A, EN 55022 Class A
EMS	IEC(EN)61000-4-2(ESD): Contact discharge: ±8kV , Air discharge: ±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

Mechanical Diagram

Size: 135(L)*135(W)*60(H)mm

Side Viewing   Front Viewing   Back Viewing   DIN Rail/Panel Installation Tool

Ordering Information

Model	Description
	2FO 8CU Industrial L2 Managed Ethernet Switch Type: Industrial L2 Managed, Interfaces: 2*2.5G/1G SFP, 8*GE Copper, 1*RS485+1*RS232, Software Features: Self-healing ring, X-Ring, RSTP or ERPS, SNMP, Mounting way: Din-Rail mounting, Aluminium Housing, IP40, Operating Voltage: DC48V, Working Temperature:-40~ +80℃