

ComIn MSD4WF8T-POE

Managed Ring 8-Port GbE PoE Switch with 4 10G SFP Port

Product Specifications



Product Description

The MSD4WF8T/MSD4WF8T-POE is a managed industrial-grade layer-2+ 10-Gigabit fiber optic Ethernet switch. It features 8 x 10/100/1000Base-T adaptive RJ45 ports and 4 x 10G/1G SFP slots. Complying with industrial product design standards, the switch's aluminum alloy shell enhances heat dissipation performance. With its fanless heat dissipation circuit design, wide range of working environment temperatures, and high protection level, it ensures excellent industrial quality, including resistance to high/low temperatures and lightning protection.

The switch supports various network functions, such as WEB management, VLAN, QoS, SNMP, and IGMP snooping. It also provides support for Ethernet fast ring network protection, including STP/RSTP/MSTP spanning tree ring networks. Additionally, the switch offers industrial-grade three-level ESD protection, making it suitable for numerous applications, including intelligent transportation, outdoor monitoring, industrial networks, and safe cities, which require fanless, low power consumption, and industrial-grade design with an operating temperature range of -40 to 85°C. This makes it adaptable to various industrial sites, providing cost-effective solutions.

The MSD4WF8T/MSD4WF8T-POE is versatile and can be widely used in broadband data transmission fields, such as smart buildings, smart cities, smart communities, smart transportation, telecommunications, security, financial securities, customs, shipping, electric power, water conservancy, and oil fields.

Product Features

- Supports STP/RSTP/MSTP spanning tree protocols to eliminate layer 2 loops and enable link backup.
- Provides IP routing and L3 port routing management capabilities.
- Supports ARP/RIP/OSPF/OSPFV3/BGP/Router Discovery/VRRP/Route-Map/BFD Layer 3 routing.
- Offers IEEE 802.1Q VLAN support, allowing users to flexibly divide VLANs based on their needs. It also supports Voice VLAN and QinQ configuration.
- Supports IGMP V1/V2 multicast protocol and IGMP Snooping, meeting the requirements for multi-terminal high-definition video monitoring and video conferencing access.
- Provides port isolation feature to separate network segments.
- Supports port broadcast storm suppression to manage excessive broadcast traffic.
- Offers various management and maintenance methods, including Web network management, CLI command line (Console, Telnet), and SNMP (V1/V2/V3) Telnet.

- Enhances security with support for HTTPS, SSLv3, SSHv1/v2, and other encryption methods for management purposes.
- Provides RMON, system log, and port traffic statistics for convenient network optimization and transformation.
- Supports LLDP, allowing the network management system to query and determine the communication status of the links.
- Offers CPU monitoring, memory monitoring, Ping detection, and cable length detection for comprehensive monitoring.
- Users can easily understand the device's working status through the power indicator (PWR), system operation indicator (SYS), and port status indicators (Link, L/A).

Product Specifications

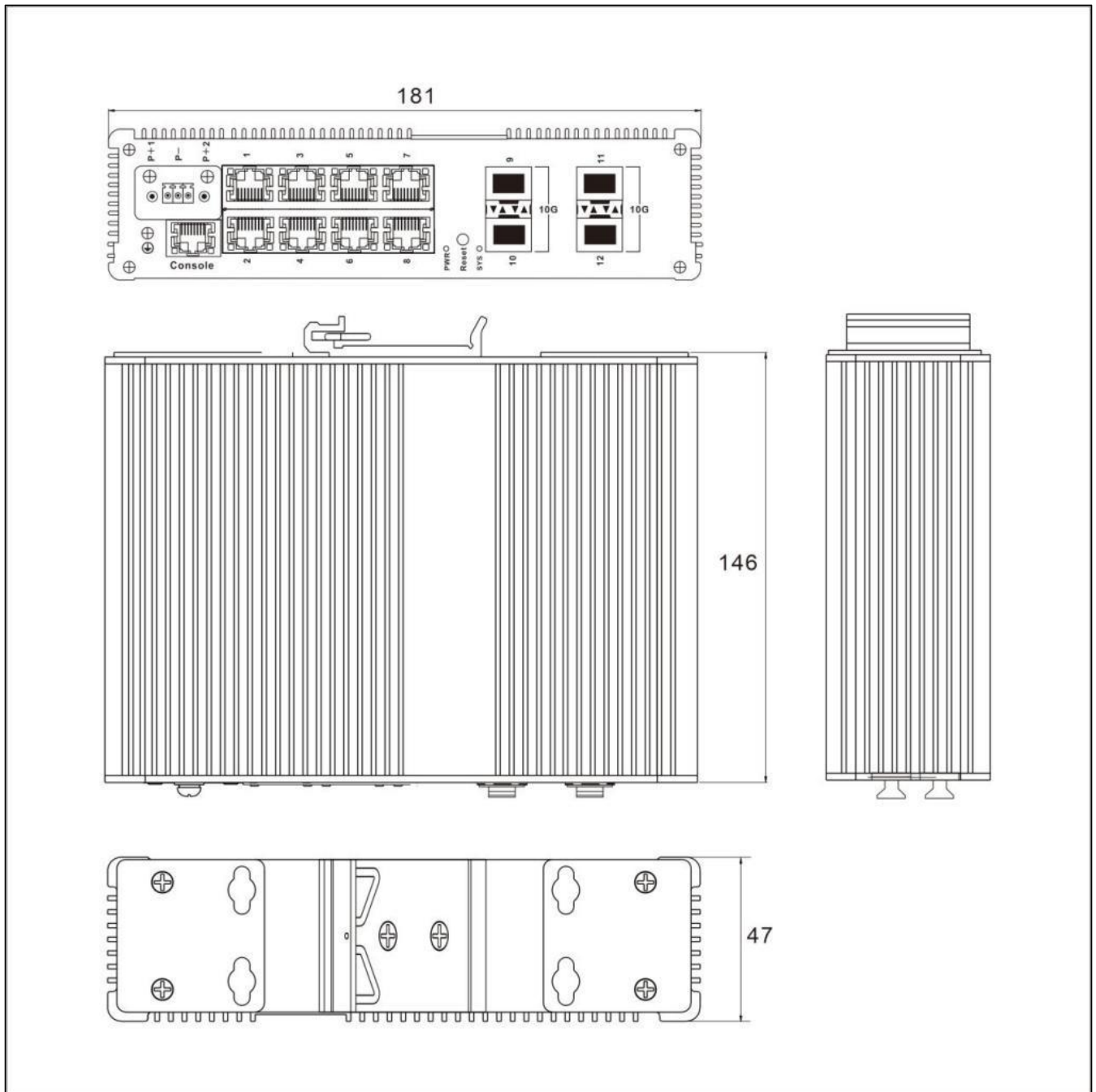
INTERFACE	
Network Port Interfaces	4 x 10G/1G SFP Port
	8 x 10/100/1000Base-T RJ45 Port
Console Interface	1 x Console RJ45 Control Port
Power Connector	3P Phoenix Terminal, Dual Power Supply Redundancy, 100-240VAC Input
LED Lights	Power Indicator: PWR (Green) System Indicator: SYS (Green) Network Port Indicator: Yellow (1000 or PoE), Green (Link)
CABLE TYPE AND DISTANCE	
Twisted Pair	0-100m (CAT5e, CAT6)
Single-Mode Fiber	20/40/60/80/100KM
Multimode Fiber	550m/2KM
Fiber Interface	LC/SC
Network Topology Mode	
Ring Topology	Support
Star Topology	Support
Bus Topology	Support

Tree Topology	Support
Mixed Topology	Support
ELECTRICAL CHARACTERISTICS	
Input Voltage	DC36-72V/AC 100-240V 50-60HZ
Power Consumption	Non-PoE Total Power <10W, With PoE < 240W (Full Load)
POE SUPPORT (OPTIONAL POE FEATURE, SPECIFIC POWER CAN BE CUSTOMIZED ACCORDING TO CUSTOMER REQUIREMENTS)	
PoE Port	1-8
PoE Protocol	802.3af, 802.3at
PoE Pinout	1,2,3,6
PoE Management Mode	Support
LAYER 2 SWITCHING	
Swap Capacity	128G
Packet Forwarding Rate	95.23Mpps
MAC Address Table	16K
VLAN Support and Number	Supports 4096 VLAN ID
Report Buffer	12M
Forwarding Delay	<10us
Port Characteristics	Cross-Direct Adaptative
Flow Control	Support
Jumbo Frames	Support 12Kbytes
Spanning Tree Protocol	Support STP/RSTP/MSTP
Ring Protocol	Support ERPS
Link Aggregation	Support 16 Group
Multicast	Support IGMP Snooping
Port Mirroring	Support
Storm Suppression	Support
Port Traffic Statistics	Support
Port Flow Statistics	Support
QINQ	Support
LAYER 3 SWITCHING	

RIP	Support RIP
OSPF	Support OSPF v2 / OSPF v3
BGP	Support
VRRP	Support
BFD	Support
PROTECTION	
IP Rating	IP40
Power Surge Protection	IEC 61000-4-5 Level 3 (4KV/2KV) (8/20us)
Network Port Surge Protection	IEC 61000-4-5 Level 3 (6KV/2KV) (10/700us)
Radiated Immunity	IEC 61000-4-3 Level 3 (10V/m)
Instantaneous Pulse Immunity	IEC 61000-4-4 Level 3 (1V/2V)
Conduction Immunity	IEC 61000-4-6 Level 3 (10V/m)
Power Supply Frequency Magnetic Field Immunity	IEC 61000-4-8 Level 4 (30A/m)
Voltage Drop	IEC 61000-4-11 Level 3 (10V)
EMI	Class A
Electrostatic Discharge (ESD) Immunity	IEC61000-4-2 Level 4 (15KV/30KV)
Free Fall	0.5m
AGGREGATION SERVICE	
Access Control List (ACL)	Support ACL 500
	Support IP Standard ACL
	Support MAC Extended ACL
	Support IP Extended ACL
Quality of Service (QoS)	Support QoS Remarking, Priority Mapping
	Support SP, WRR Queue Scheduling
	Support Entrance Speed Limit and Exit Speed List
	Support Flow-Based QoS
MANAGEMENT FUNCTION	
Command Line	Support
Serial Port Management	Support
Telnet	Support
Web Management	Support

SNMP	Supports SNMPv1/v2c/v3
User Management	Support
Syslog	Support
File Upgrade	Support
Firmware Upgrade	Support
SFP Module DDM	Support
ENVIRONMENTAL CONDITIONS	
Operating Temperature	-40°C ~ +85°C
Storage/Transport Temperature	-40°C ~ +85°C
Relative Humidity	5%~95% (non-condensing)
Heat Dissipation Method	Fanless Design, Natural Heat Dissipation
MTBF	100,000 Hours
MECHANICAL STRUCTURE	
Size	181 x 146 x 47mm
Installation Method	Din-Rail Mount
Weight	1kg
RELEVANT CERTIFICATIONS	
Certification	CE, FCC, RoHS, CCC
PACKAGES AND ACCESSORIES	
Standard Packaging	Equipment, Terminal Block, Manual, Power Adapter (Optional)

Product Size and Dimension



Order Code	Product Description
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