

ComIn MSD2F8T-SFP-POE

Managed Ring 8-Port GbE PoE Switch with 2 SFP
Port

Product Specifications



Product Description

The MSD2F8T-SFP/MSD2F8T-SFP-POE is a managed industrial layer-2 Gigabit fiber optic Ethernet switch, equipped with 8 x 10/100/1000Base-T adaptive RJ45 ports and 2 x 1G SFP optical ports. Built with a focus on industrial product design and materials, its aluminum alloy shell enhances heat dissipation performance. The fanless heat dissipation circuit design, wide range of working temperature, and high protection level ensure 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 supports Ethernet fast ring network protection with STP/RSTP/MSTP spanning tree ring network and ERPS capabilities.

This device is ideal for challenging environments such as outdoor surveillance, industrial networks, and safe cities, where fanless, low power consumption, and industrial-grade design with an operating temperature range of -40 to 85°C are required. It can cater to various industrial sites and offer economical solutions. The MSD2F8T-SFP/MSD2F8T-SFP-POE finds wide applications in broadband data transmission fields, including 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 and ERPS protocol for eliminating layer 2 loops and enabling link backup.
- Provides 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 surveillance and video conference access.
- Offers port isolation feature to separate network segments.
- Provides port broadcast storm suppression to manage excessive broadcast traffic.
- Supports various management and maintenance methods such as 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.

- Offers 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.
- Provides 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	
Uplink Port Interfaces	2 x 1000/100 SFP Port
Network Port Interfaces	8 x 10/100/1000Base-T RJ45 Port
Console Interface	1 x Console RJ45 Control Port
Power Connector	3P Phoenix Terminal
LED Lights	Power Indicator: PWR (Green) System Indicator: SYS (Green) Network Port Indicator: Yellow (1000 or PoE) Green (Speed)
CABLE TYPE AND DISTANCE	
Twisted Pair	0-100m (CAT5e, CAT6)
Single-Mode Fiber	20/40/60/80/100/120KM
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	DC12-55V/AC 100-240V 50-60HZ
Power Consumption	Non-PoE Total Power <10W, With PoE < 120W (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	52G
Packet Forwarding Rate	26.8Mpps
MAC Address Table	16K
VLAN Support and Number	Supports 4096 VLAN ID
Report Buffer	8M
Forwarding Delay	<10us
Port Characteristics	Cross-Direct Adaptive
Flow Control	Support
Jumbo Frames	Support 10Kbytes
Spanning Tree Protocol	Support STP/RSTP/MSTP
Ethernet 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
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	440 x 250 x 44.5mm
Installation Method	1U, 19 inches Rack Mount
Weight	3.4kg
RELEVANT CERTIFICATIONS	
Certification	CE, FCC, RoHS, CCC
PACKAGES AND ACCESSORIES	
Standard Packaging	Equipment, Terminal Block, Manual, Power Adapter (Optional)

Order Code	Product Description
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深圳星恒讯科技有限公司

SHENZHEN MOVINGCOMM TECHNOLOGY CO., LTD.

Addr: 4F, No. 5 Building, TongFuKang ShuiTian Industrial Zone,
ChangCheng Road, ShuiTian Community, ShiYan, BaoAn
District, 518108 ShenZhen, GuangDong, China

Tel: 86-755-23125215

Fax: 86-755-23125215-802

Email: sales@movingcomm.com

