MISCOM7212G-4GF-8GT

12 Gigabit Ports Din-rail Layer-2 Managed Industrial Ethernet Switch

- Support 4 Gigabit SFP ports and 8 Gigabit copper ports, SFP port support 100 MB / Gigabit SFP fiber module or Gigabit SFP electrical module, providing users with flexible networking methods

- Support ring network redundancy protocols such as MW-Ring, ERPSv1 / v2, STP / RSTP to improve network reliability

- Fast Ring Redundancy (MW-Ring) <20ms enhances the reliability of system communication

- Support 1 AC85~264V / DC110~370V power input, or 2 DC9~60V power input optional, dual input support power redundancy

- High strength aluminium alloy shell, IP40 protection level, fanless heat dissipation, can reliably work in harsh industrial environments of -40 ℃~+75 ℃

CE   FC   RoHS   ⚙   IP40

▧ Product Introduction

MISCOM7212G-4GF-8GT layer-2 network managed din-rail mount industrial Ethernet switch support 4 Gigabit SFP ports and 8 Gigabit copper ports. It adopts a storage and forwarding mechanism and has strong bandwidth processing capabilities, automatically troubleshooting data packet errors, reducing transmission failures, and easily supporting 1000Mbps networking to ensure stable, reliable, and efficient data transmission. The product uses industrial grade components, combined with high standard system design and production control.Standard din-rail type installation, high strength durable aluminum alloy shell, fanless efficient heat dissipation, -40℃ ~ + 75℃ wide temperature work, high standard industrial protection design, can adapt to a variety of harsh working environment, stable communication performance.

MISCOM7212G-4GF-8GT can be managed through WEB management or SNMP network management, while providing MW-Ring, ERPS, STP / RSTP, VLAN, LLDP, RMON, ACL, QoS service quality (Quality of Service), 802.1X, IGMP Snooping, rate control, port convergence, port mirroring, static MAC address publication, network diagnosis, loop detection, Email / Relfault alarm and firmware online upgrade. The products can be widely used in comprehensive energy, smart city, intelligent transportation, smart factory, industrial automation and other industrial fields.

✪ Product Features

- Support broadcast, unknown multicast and unknown single broadcast text rate limit, broadcast and multicast data packet storm detection, prevent broadcast storm

- Support link static aggregation, which can increase transmission bandwidth and improve link reliability

- Support port mirroring and collects data from port entrances and exits for network detection and fault management

- Support ports statistics to count different types of data frames sent and received to realize the monitoring of port traffic

- Support DDM digital diagnosis and monitoring, can detect the temperature, voltage, current, transmitting and receiving optical power of the DDM optical module

- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interface easy to divide multiple broadcast domain, enhance the security of the network

- Support the MAC address table and the aging time limit, and the static unicast / multicast MAC address is bound with the interface, to ensure the use of legitimate users

- Support IGMP Snooping, establish two-layer multicast transfer publication, reduce the broadcast of multicast data in the network, save network resources

- Support LLDP link layer discovery protocol, obtain LLDP neighbor device information, conduct link status monitoring, facilitate topology management and fault location

- Support ERPSv1 / v2 Ethernet multi-ring protection technology, provide multi-ring networking, link backup, achieve fast convergence, improve network stability

- Support RSTP generation tree protocol, compatible with STP protocol, can eliminate network loop, improve network reliability

- Support WEB control, HTTP, HTTPS protocol access control, login IP address restrictions

- Support TELNET and SSH access control, SSH can provide secure remote login to ensure data integrity and reliability

- Support SNMPv1 / v2c / v3, through the MIB network management system can be information query, information modification and troubleshooting, to achieve centralized management

- Support RMON remote network monitoring, make statistics and alarm of various types of data frames, and can be used for remote monitoring and management of network management system

- Support QoS service quality, give priority to voice, video and important data in network devices, and solve network congestion

- Support ACL access control list, filtering of TCP / UDP / ICMP / IGMP messages based on source / destination IP and MAC address

- Support 802.1X port authentication, authenticates the access users, and provides local and RADIUS

login authentication

- Support relay alarm mode, including network storm, power loss, port loss and other alarm information

- Support loop back detection to prevent the network from ring and causing the network storm

- Support observers and administrators, user rights hierarchical management

- Support system logging of WEB, LINK, CONFIG, AUTH, STORM, RING, SNMP, SYS, and support remote monitoring of log host and regular sending of log mail

Technical specifications

Software function	
Switch function	Support port configuration, such as port rate, duplex mode, flow control, maximum transmission unit, etc Support 802.1Q VLAN, port isolation Support port speed limit, storm suppression, storm detection, static port convergence, and port statistics
Redundant technique	Support for MW-Ring ring network technology Support for ERPSv1 / v2 RSTP is supported, and STP is compatible
Group broadcast	Support for IGMP Snooping Support for a static multicast MAC
Security management	Support for WEB, TELNET, and SSH control Support ACL, data filtering of L2-L4 layer Support for 802.1X port authentication Support the relay alarm, Email log Support ring circuit detection
Management and maintenance	Support for QoS quality of service, 802.1P/ DSCP / port priority mapping, absolute versus relative priority control Support SNMP v1 / v2c / v3, SNMP Trap, RMON, LLDP Support for port mirror image, DDM, Ping Support user rights management, system log, NTP client, daylight saving time Support online restart, restore factory Settings, system upgrade, configuration file upload / download Support for unified upper-level computer software management

Switch capability	
Switch mode	Store and forward
Backboard bandwidth	56G
Cache size	4.1Mbit

Technical specifications

MAC Table Size	8K

Interface

1000M fiber port	4 Gigabit SFP ports, support 100 MB / Gigabit SFP optical module or Gigabit SFP electrical module
1000M copper port	8 10 / 100 / 1000Base-T (X) adaptive Gigabit RJ45 port for full / half duplex, MDI / MDI-X adaptation
Relay	1 relay alarm output, 3-pin 3.81mm terminal block
CONSOLE	1 RJ45 CONSOLE port of RS232 signal for equipment debugging and command line configuration
Press key	Restore factory setting
Indicator lights	Power indicator, operation indicator, alarm indicator, SFP interface indicator, port port rate and connection / activity indicator

Power

Power	MISCOM7212G-4GF-8GT	MISCOM7212G-4GF-8GT-AD220
Power Input	DC 9~60V, dual power redundancy	AC85~264V (47~63Hz) / DC110~370V
Full load power	＜11W@DC24V	＜12W@AC220V
Connection	5-pin 5.08mm terminal block	5-pin 5.08mm terminal block,3-pin for power
Power protection	No polarity input	Over current protection

Physical Characteristics

Dimension	160×58×122(mm)(Not including the rail)
Installation	35mm standard DIN rail installation
Shell protection	IP40
Weight	About 0.95kg

Working Environment

Operating temperature	-40℃~+75℃
Storage temperature	-40℃~+85℃
Ambient humidity	5%~95%（No condensation）

☑ Technical specifications

Industry Standard	MISCOM7212G-4GF-8GT	MISCOM7212G-4GF-8GT-AD220
EMC protection	IEC 61000-4-2(ESD):Level 4 (Contact discharge±8kV,air discharge±15kV) IEC 61000-4-5(Surge):Level 4 (Power:common mode±4kV, differential mode±2kV network port:common mode±6kV,differential mode±2kV） IEC 61000-4-4(EFT):Level 4 (Power:±4kV,Copper port:±2kV)	IEC 61000-4-2(ESD):Level 4 (Contact discharge±8kV,air discharge±15kV) IEC 61000-4-5(Surge):Level 3 (Power:common mode±2kV, differential mode±2kV network port:common mode±6kV,differential mode±2kV） IEC 61000-4-4(EFT):Level 4 (Power:±4kV,Copper port:±2kV)
Certification	CE,FCC,RoHS	

Dimension drawing

Unit:mm
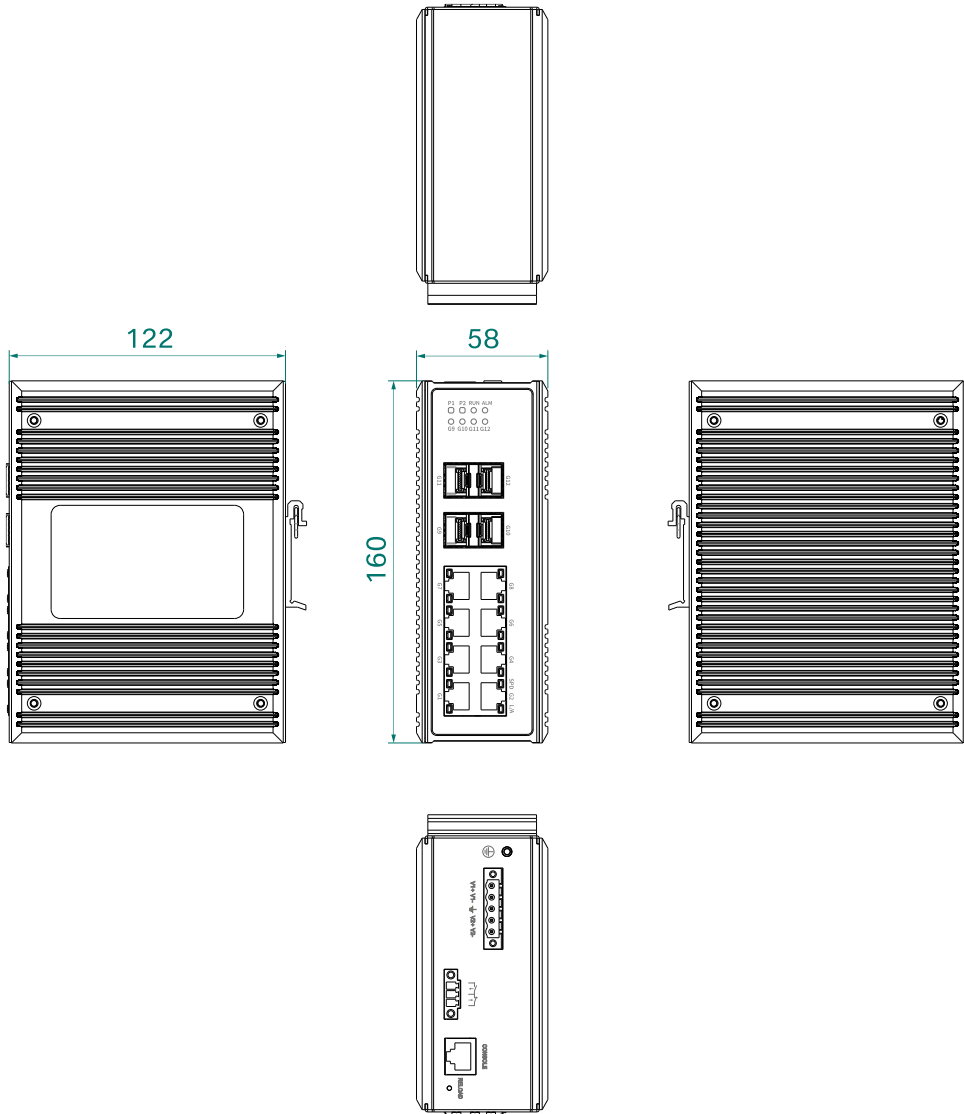
🛒 Order information

Model	1000M fiber port	1000M copper port	Power range
MISCOM7212G-4GF-8GT	4	8	Dual DC 9~60V
MISCOM7212G-4GF-8GT-AD220	4	8	AC85~264V / DC110~370V

📞 Contact Us

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