MISCOM7212G-4GF-8GT

12-Port DIN-Rail Layer 2 Managed Industrial Ethernet Switch

- 4*1G SFP ports and 8*1G copper ports, SFP port supports 100M/1G SFP module or SFP 1G-T module
- 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 single AC85~264V / DC110~370V power input, or dual DC9~60V power input optional, dual input support power redundancy
- High strength aluminum alloy shell, IP40 protection, fanless design for heat dissipation, can reliably work in harsh industrial environments of -40 ℃~+75 ℃

Product Description

MISCOM7212G-4GF-8GT layer 2 network managed DIN-rail mount industrial Ethernet switch support 4*1G SFP ports and 8*1G 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 design for 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 / Relay fault 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.

Features and Benefits

- Support broadcast, unknown multicast and unknown unicast 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 port 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	
Switching	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 aggregation, and port statistics Support MAC address aging, static MAC address binding
Redundancy	Support MW-Ring ring network technology Support ERPSv1 / v2 RSTP is supported, and STP is compatible
Broadcast	Support IGMP Snooping Support static multicast MAC
Security Management	Support WEB, TELNET, and SSH control Support ACL, data filtering of L2-L4 layer Support 802.1X port authentication Support the relay alarm, Email log Support ring circuit detection
Management and Maintenance	Support QoS, 802.1P/DSCP/port priority mapping, absolute and relative priority control Support SNMP v1/v2c/v3, SNMP Trap, RMON, LLDP Support port mirroring, DDM, Ping Support user rights management, system log, NTP client, daylight saving time Support online restart, factory reset, system upgrade, configuration file upload/download Support for unified upper-level computer software management
Switch Capability	
Processing Type	Store-and-forward
Backplane bandwidth	56G
Buffer Size	4.1Mbit
MAC Table Size	8K

Technical Specifications

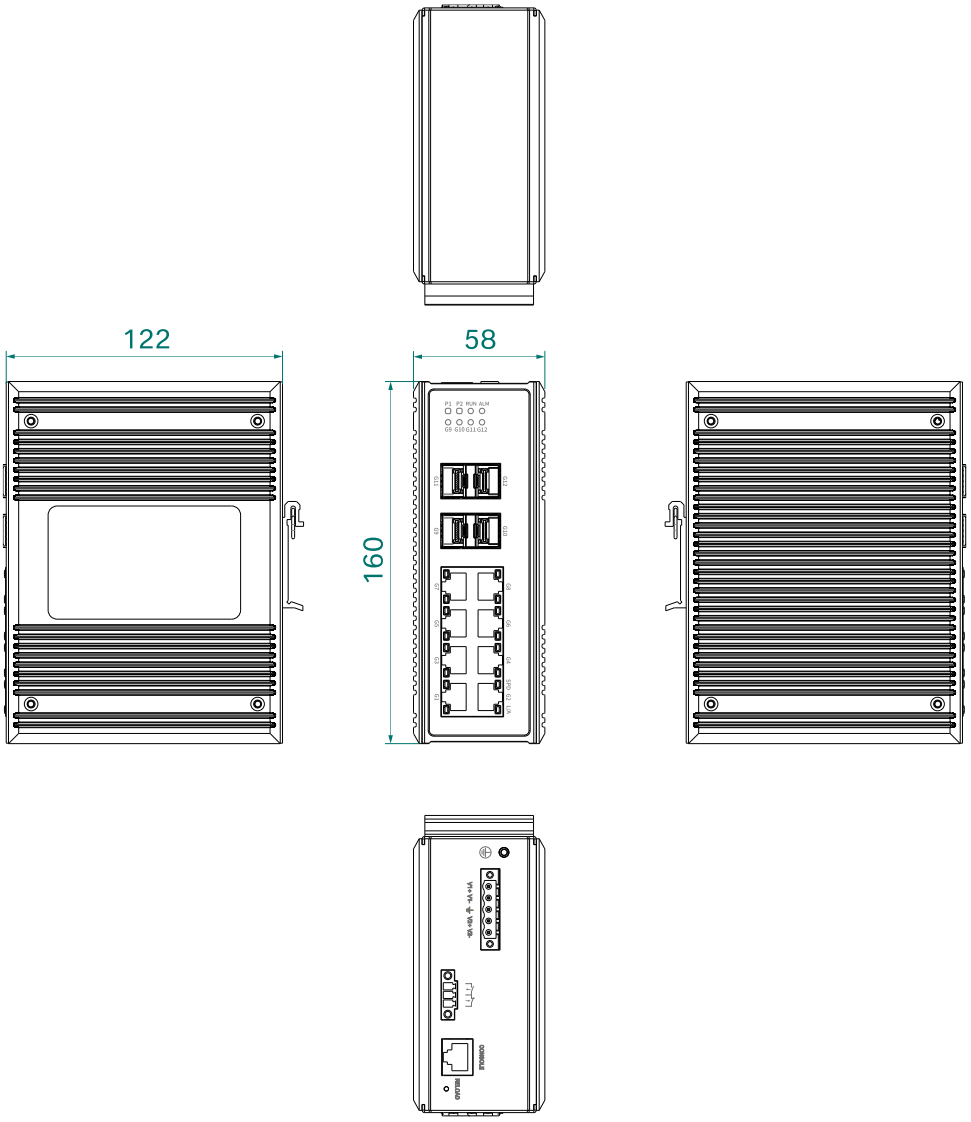
Interface		
1G Fiber Port	4*100/1000Base-X SFP ports, support 100M/1G SFP optical module or Gigabit SFP electrical module	
1G Copper Port	8*10/100/1000Base-T(X) auto-sensing Gigabit RJ45 port for full/half duplex, auto MDI/MDI-X connection	
Relay	1*relay alarm output, 3-pin 3.81mm terminal block	
CONSOLE	1*RJ45 CONSOLE port of RS232 signal for equipment debugging and command line configuration	
Button	Factory reset	
Status LED	Power indicator, operation indicator, alarm indicator, SFP interface indicator, port rate and connection / activity indicator	
Power Supply	**MISCOM7212G-4GF-8GT**	**MISCOM7212G-4GF-8GT-AD220**
Power Input	DC 9~60V, dual power redundancy	AC85~264V (47~63Hz) / DC110~370V
Power Consumption	＜11W@DC24V(full load)	＜12W@AC220V(full load)
Connection	5-pin 5.08mm terminal block	5-pin 5.08mm terminal block, 3-pin for power
Protection	No polarity	Over current protection
Physical Characteristics		
Dimension	160×58×122 mm (Not including Din rail mounting clip)	
Installation	35mm standard DIN rail installation	
Shell protection	IP40	
Weight	About 0.95kg	
Working Environment		
Operating Temp	-40℃~+75℃	
Storage Temp	-40℃~+85℃	
Ambient Humidity	5%~95% (No condensation)	
Industry Standard	**MISCOM7212G-4GF-8GT**	**MISCOM7212G-4GF-8GT-AD220**

Technical Specifications

EMC	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)

Dimensions

Unit: mm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58
160

Ordering Information

Standard Model	1G Fiber Port	1G Copper Port	Input Voltage
MISCOM7212G-4GF-8GT	4	8	Dual DC 9~60V
MISCOM7212G-4GF-8GT-AD220	4	8	AC85~264V / DC110~370V

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