

MISCOM7214G-2XGF-4GF-8GT

14-Port Lay 2 10G Managed Din-rail Industrial Ethernet Switch



- Support 2 10G SFP ports 4 Gigabit SFP ports and 8 Gigabit copper ports, providing flexible networking options
- .Support ring redundancy protocols like MW-Ring v1/v2, ERPS, STP/RSTP to enhance network reliability
- Fast ring redundancy with less than 20ms (MW-Ringv1/v2) improves system communication reliability
- Supports 1 AC 85~264V/DC 110~370V power input or optional dual DC 36-72V power inputs, enabling power redundancy with dual inputs
- High-strength aluminum alloy housing with IP40 protection rating, fanless heat dissipation, allowing the device to operate reliably in harsh industrial environments ranging from -40°C to +85°C





Product Description

MISCOM7214G-2XGF-4GF-8GT is a layer 2 10G Din Rail managed industrial Ethernet switch. It supports 2 10G SFP ports, 4 gigabit SFP ports and 8 gigabit copper ports. This switch utilizes a store-and-forward mechanism, providing robust bandwidth processing capabilities while automatically detecting and reducing transmission errors, ensuring stable, reliable, and efficient data transfer. The product features carefully selected industrial-grade components, high-standard system design, and production control. It is designed for 35mm standard DIN rail installation, housed in a rugged and durable high-strength metal enclosure. The fanless design allows it to dissipate heat effectively and operate reliably in a wide temperature range from -40°C to +75°C. The device also adheres to high industrial protection standards, making it suitable for challenging work environments, ensuring stable communication performance.

MISCOM7214G-2XGF-4GF-8GT Series supports a range of features and network protocols, including MW-Ring v1/v2, ERPS, STP/RSTP, VLAN, LACP, LLDP, SNMPv1/v2c/v3, RMON, QoS, 802.1X, IGMP Snooping, ACL, WEB/TELNET/SSH access control, static aggregation, port mirroring, static MAC address binding, network diagnostics, loopback detection, email logs, alarms, SNTP, system logs, and online firmware upgrades. These capabilities enhance network performance, reliability, and security, making it suitable for various complex network requirements. The product has undergone rigorous testing for functionality, temperature resilience, safety compliance, and electromagnetic compatibility (EMC). It meets the demands of complex networks and harsh industrial environments and can be widely applied in areas such as comprehensive energy, smart cities, rail transportation, intelligent traffic, smart factories, industrial automation, and more.



Features and Benefits

- Support rate limiting for broadcast, unknown multicast, and unknown unicast packets, with detection and prevention of broadcast and multicast packet storms to avoid network storms
- Support port mirroring to collect data from port ingress and egress for network detection and fault management
- Support 802.1Q VLAN, providing Access, Trunk, and Hybrid interfaces for easy division of multiple broadcast domains, enhancing network security
- Support IGMP Snooping to establish a Layer 2 multicast forwarding table, reducing multicast data broadcast in the network, and conserving network resources
- Support LLDP (Link Layer Discovery Protocol) for obtaining LLDP neighbor device information, monitoring link statuses, facilitating topology management, and fault localization
- Support RSTP (Rapid Spanning Tree Protocol) compatible with STP (Spanning Tree Protocol) to eliminate network loops and enhance network reliability
- Support WEB control with HTTP and HTTPS protocol access control, as well as login IP address restrictions
- Support SNMPv1/v2c/v3 centralized management and SNMPv1/v2c/v3 TRAP messages, including support for standard TRAP and private TRAP notifications
- Support QoS (Quality of Service) to prioritize voice, video, and critical data transmission within network devices, addressing network congestion
- Support loopback detection to prevent network loops and associated network storms
- Support online restart, factory reset and system upgrade



Specification

Software	
Switching	<p>Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics</p> <p>Support 802.1Q VLAN</p> <p>Support MAC address aging and static MAC address binding</p>
Redundancy	<p>Support MW-Ringv1/v2 proprietary ring network technology</p> <p>Support ERPS (Ethernet Ring Protection Switching)</p> <p>Support RSTP (Rapid Spanning Tree Protocol) and is compatible with STP (Spanning Tree Protocol)</p>
Management and Maintenance	<p>Support WEB, TELNET, and SSH access control</p> <p>Support QoS (Quality of Service), SNMP v1/v2c/v3, SNMPv1/v2c/v3 TRAP, RMON, and LLDP</p> <p>Support port mirroring and ping</p> <p>Support user privilege management, system logs, local/network time synchronization, and daylight saving time</p> <p>Support online restart, factory reset, system upgrade, and configuration file upload/download</p> <p>Support MW-NMPv2, MixView, and MaxView management</p>
Switch Capability	
Processing Type	Store and Forward
Backplane Bandwidth	64Gbps
Buffer Size	8Mbit
MAC Table Size	16K
Interface	
10G Fiber Port	2 10GBase-X SFP ports, compatible with 1000Base-X,.
Gigabit Fiber Port	4 1000Base-X SFP ports
Gigabit Copper Port	8*10/100/1000Base-T(X) auto-sensing copper ports, supporting full/half duplex, auto MDI/MDI-X
Relay	1 relay alarm output with 3-pin 3.81mm spacing and locking terminal connectors.
CONSOLE	1 CONSOLE port with an RJ45 connector, supporting RS232 signal for device debugging and command configuration



Specification

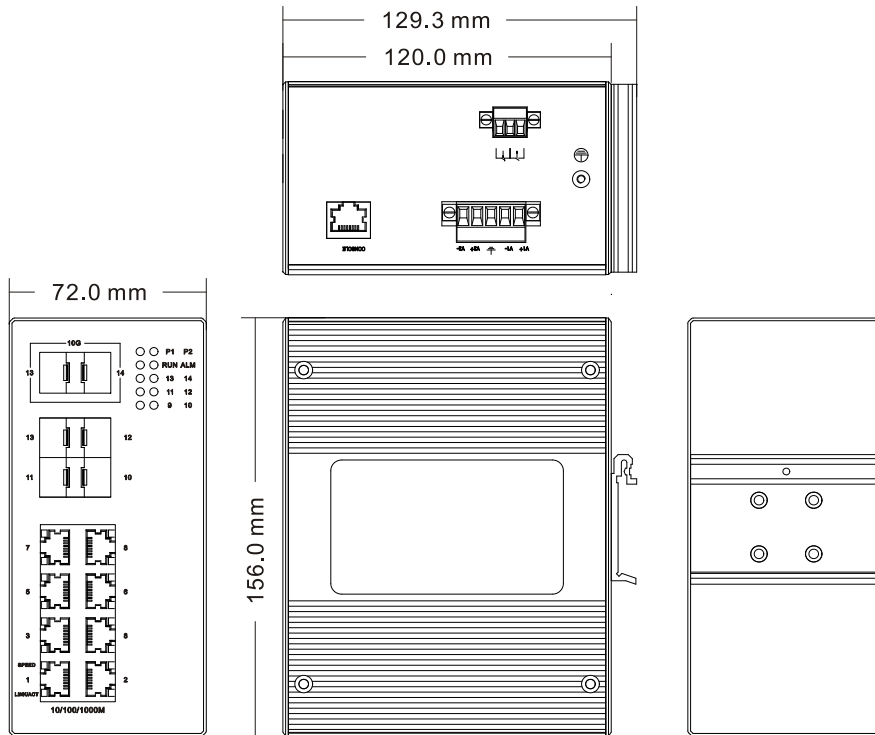
Status LED	Power indicator, operation indicator, alarm indicator, interface indicator, and Ethernet port speed indicator
Power Supply	
Input Voltage	DC model: DC12~48V or 36~72V optional, dual power redundancy, reverse polarity protection AC model: AC85~264V/DC110~370V
Power Consumption	< 12W
Connection	5.08mm pitch 5-pin terminal block
Physical Characteristics	
Dimensions	156×72×120(mm) (DIN rail mounting clip excluded)
Installations	Standard 35mm DIN rail installation
IP Code	IP40
Weight	0.95kg
Working Environment	
Operating Temp	-40℃~+85℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 4 IEC 61000-4-5 (Surge): Level 4 * Ethernet ports support 6kV surge protection IEC 61000-4-4 (EFT): Level 4
Certification	CE, FCC, RoHS



Dimensions

Unit: mm

MISCOM7214G-2XGF-4GF-8GT





Ordering Information

Standard Model	10G Fiber Port	1G Fiber Port	Gigabit Copper Port	Input Voltage
MISCOM7214G-2XGF-4GF-8GT	2	4	8	Dual Power supply DC12~48V
MISCOM7214G-2XGF-4GF-8GT-DC48	2	4	8	Dual Power supply DC36~72V
MISCOM7214G-2XGF-4GF-8GT-AD220	2	4	8	AC85~264V OR DC110~370V



Contact Us

Wuhan Maiwe Communication Co., Ltd

Address: No.52 Liufang Avenue, East lake High-tech
Development Zone, Wuhan, China.

Tel: 027-87170217

Mail: enquiry@maiwe.com

Official site: www.maiwe.com

Copyright © Maiwe Communication All rights reserved