

MISCOM7210GBP-2GF-8GT

10-Port Layer 2 Gigabit Bypass Managed DIN-Rail Industrial Ethernet Switch



- Support 2 Gigabit SFP ports and 8 Gigabit copper ports, providing flexible networking options
- Support fiber ports bypass function. Fiber ports G9 and G10 can be connected directly after the device is powered off to ensure normal operation of the network
- 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
- Support dual DC 12-48V power inputs, enabling power redundancy with non-polarity
- 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 +75°C





Product Description

MISCOM7210GBP-2GF-8GT is a layer 2 gigabit Bypass Din Rail managed industrial Ethernet switch. It supports 2 gigabit SFP ports and 8 1000M copper ports. Among them, fiber port 9 and fiber port 10 support the Bypass function, which can be connected directly after the device is powered off, bypassing the faulty node, avoiding network interruption, and ensuring the normal operation of the network. 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 $+75^{\circ}\text{C}$. The device also adheres to high industrial protection standards, making it suitable for challenging work environments, ensuring stable communication performance.

MISCOM7210GBP-2GF-8GT switch 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 link static aggregation and LACP dynamic aggregation to increase transmission bandwidth and enhance link reliability
- 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 ERPS (Ethernet Ring Protection Switching) for multiple ring network protection, link backup, fast convergence, and improved network stability
- 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 RMON (Remote Monitoring) for remote network monitoring, statistics, and alarms for various types of data frames, suitable for remote monitoring and management in network management systems
- Support QoS (Quality of Service) to prioritize voice, video, and critical data transmission within network devices, addressing network congestion
- Support ACL (Access Control List) with customizable filtering rules for various frame types, enabling filtering or rate limiting of specific packets
- Support 802.1X port authentication for user authentication upon network access, providing local and RADIUS login authentication
- Support alarm functions, including power supply failure, network storms, and port disconnection alarms
- Support loopback detection to prevent network loops and associated network storms
- Support system log information recording, downloading, and categorization, with output available through WEB pages, log hosts, and consoles



Specification

Software

Specification

Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics Support 802.1Q VLAN and port isolation Support MAC address aging and static MAC address binding
Redundancy	Support MW-Ringv1/v2 proprietary ring network technology Support ERPS (Ethernet Ring Protection Switching) Support RSTP (Rapid Spanning Tree Protocol) and is compatible with STP (Spanning Tree Protocol)
Multicast	Support IGMP Snooping Support static multicast MAC address binding
Security Management	Support WEB, TELNET, and SSH access control Support ACL (Access Control List) for filtering traffic Support 802.1X port authentication Support loopback detection, alarms, and Email logging
Management and Maintenance	Support QoS (Quality of Service), SNMP v1/v2c/v3, SNMPv1/v2c/v3 TRAP, RMON, and LLDP Support port mirroring and ping Support user privilege management, system logs, local/network time synchronization, and daylight saving time Support online restart, factory reset, system upgrade, and configuration file upload/download Support MW-NMPv2, MixView, and MaxView management
Switch Capability	
Processing Type	Store and Forward
Backplane Bandwidth	20Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	
Gigabit Fiber Port	2*1000Base-X Gigabit SFP ports, compatible with 100Base-FX,t adopts single-mode single-fiber SC interface and supports optional wavelength and transmission distance. Optical port G9 and optical port G10 support Bypass function.
Gigabit Copper Port	8*10/100/1000Base-T(X) 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
Status LED	Power indicator, operation indicator, alarm indicator, interface indicator, and Ethernet port speed indicator



Specification

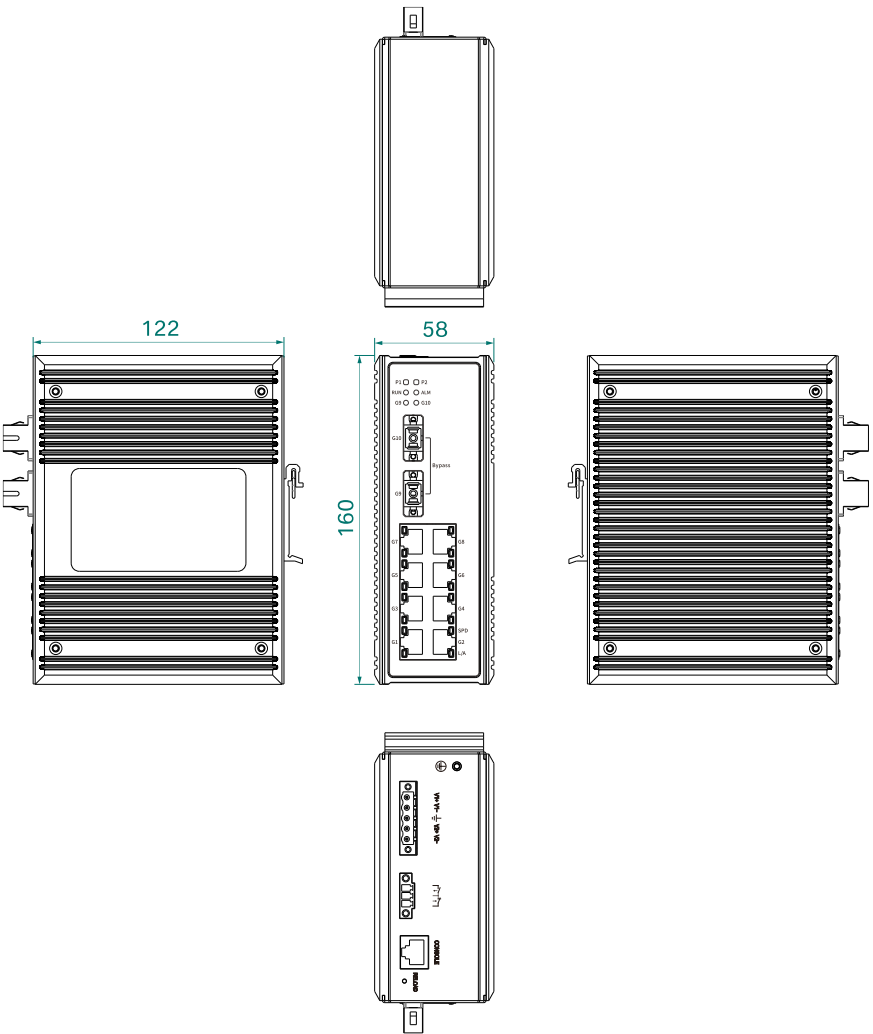
Power Supply	
Input Voltage	DC model: DC12~48V, dual power redundancy, non-polar
Power Consumption	<12W@DC24V(full load)
Connection	5.08mm pitch 5-pin terminal block
Physical Characteristics	
Dimensions	160×58×122 mm (DIN rail mounting clip excluded)
Installations	Standard 35mm DIN rail installation
IP Code	IP40
Weight	0.87kg
Working Environment	
Operating Temp	-40°C~+75°C
Storage Temp	-40°C~+85°C
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

MISCOM7210GBP-2GF-8GT





Ordering Information

Standard Model	1G Bypass Fiber Port	Gigabit Copper Port	Input Voltage
MISCOM7210GBP-2GF-8GT	2	8	Dual Power supply DC12~48V



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