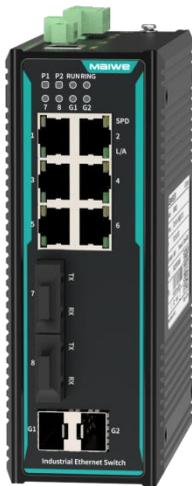


MISCOM7210-2GF-2F

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



- 2xGigabit SFP ports, 2x100Base-FX ports (multi/single-mode, SC/FC/ST connector), 6x10/100Base-T(X) ports (RJ45 connector)
- Support ring redundancy protocols such as MW-Ringv1/v2, ERPS, STP/RSTP to enhance network reliability
- Fast ring redundancy less than 20ms (MW-Ringv1/v2) to improve system communication reliability
- Support QoS (Quality of Service) with priority mapping based on 802.1P/DSCP/port, improving communication quality
- Support dual DC 9~60V power input
- With IP40 high-strength aluminum alloy housing and fanless design, the device can reliably operate in the temperature ranging from -40°C to +85°C





Product Description

MISCOM7210-2GF-2F is an industrial Ethernet switch, designed for DIN-rail. It features 2×Gigabit SFP ports, 2×100Base-FX ports and 6×10/100Base-T(X) ports, utilizing a store-and-forward mechanism for robust bandwidth handling. This switch automatically detects and reduces transmission errors, making it ideal for Gigabit network deployments, ensuring stable, reliable, and efficient data transmission. The product is built with industrial-grade components and adheres to high-quality system design and production standards. It supports a wide temperature range of -40 °C to +85 °C and is housed in a rugged and durable aluminum alloy casing with IP40 protection.

MISCOM7210-2GF-2F offers web-based management capabilities and supports various network protocols, including MW-Ringv1/v2, ERPS, STP/RSTP, VLAN, LACP, LLDP, QoS, 802.1X, IGMP snooping, WEB/TELNET/SSH access control, port aggregation, port mirroring, static MAC address binding, network diagnostics, loopback detection, email logging, relay alarms, and firmware online upgrades. This comprehensive feature set enhances network performance, reliability, and security, meeting the requirements of complex networks. The product has undergone rigorous testing for functionality, temperature resilience, safety compliance, and electromagnetic compatibility (EMC) to ensure its suitability for demanding industrial applications. It can be widely used in various fields such as comprehensive energy, smart cities, rail transportation, intelligent traffic, smart factories, and industrial automation.



Features and Benefits

- Support rate limiting for broadcast, multicast, and unknown unicast packets, as well as broadcast and multicast packet storm detection to prevent network storms
- Support both static link aggregation and dynamic Link Aggregation Control Protocol (LACP) for increased transmission bandwidth and link reliability
- Support port mirroring, allowing the collection of data from ingress and egress ports for network diagnostics and fault management
- Support 802.1Q VLANs, providing Access, Trunk, and Hybrid interfaces for easy segmentation of multiple broadcast domains, enhancing network security
- Support IGMP snooping, which builds a layer 2 multicast forwarding table, reducing multicast data broadcast in the network, and conserving network resources
- Support Link Layer Discovery Protocol (LLDP), enabling the acquisition of LLDP neighbor device information for link status monitoring, facilitating topology management and fault localization
- Support Ethernet Ring Protection Switching (ERPS), providing multi-ring networking, link backup, fast convergence, and enhanced network stability
- Support the Rapid Spanning Tree Protocol (RSTP), compatible with STP, to eliminate network loops and improve network reliability
- Feature web-based control with HTTP and HTTPS protocol access control, including login IP address restrictions
- Support SNMPv1/v2c/v3 for centralized management and SNMPv1/v2c/v3 TRAP notifications
- Support Quality of Service (QoS) to prioritize voice, video, and critical data for transmission, addressing network congestion
- Support 802.1X port authentication for user identity verification, providing both local and RADIUS-based login authentication
- Support loopback detection to prevent network loops that could cause network storms
- Support relay alarm notifications for events such as power loss, network storms, and port link status changes
- Support system logging, including various log types such as WEB, LINK, CONFIG, AUTH, IGMP, STORM, RING, RSTP, SNMP, and more, with the ability to send log data to a remote log host and email log notifications

Specification

| Software | |
|----------------------------|---|
| 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 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 802.1X port authentication Support loopback detection, alarms, and email logging |
| Management and Maintenance | Support QoS for prioritizing and managing network traffic, SNMP v1/v2c/v3 for network management, SNMP v1/v2c/v3 Traps for event notifications, and LLDP for discovering and managing network devices Support port mirroring for monitoring and analyzing traffic on specific ports, as well as Ping for network testing and troubleshooting Support user permission management for controlling access to network resources, system logging for recording events and activities, SNTP client for time synchronization, and support for DST adjustments Support online rebooting, factory reset options, system upgrades, and the ability to upload and download configuration files Support unified upper-level software management for centralized control and monitoring of network devices |
| Switch Capability | |
| Processing Type | Store-and-Forward |
| Backplane Bandwidth | 5.6Gbps |
| Buffer Size | 11Mbit |
| MAC Table Size | 8K |
| Interface | |
| 1G Fiber Port | 2x1000Base-X Gigabit SFP ports, compatible with 100Base-FX |
| 100M Fiber Port | 2x100Base-FX ports (SC/FC/ST, single-mode/multi-mode, wavelength, and transmission distances are optional) |
| 100M Copper Port | 6x10/100Base-T(X) RJ45 ports, support full/half duplex and auto MDI/MDI-X |
| Relay | 1 relay alarm output with 3-pin 3.81mm spacing and locking terminal connectors. |



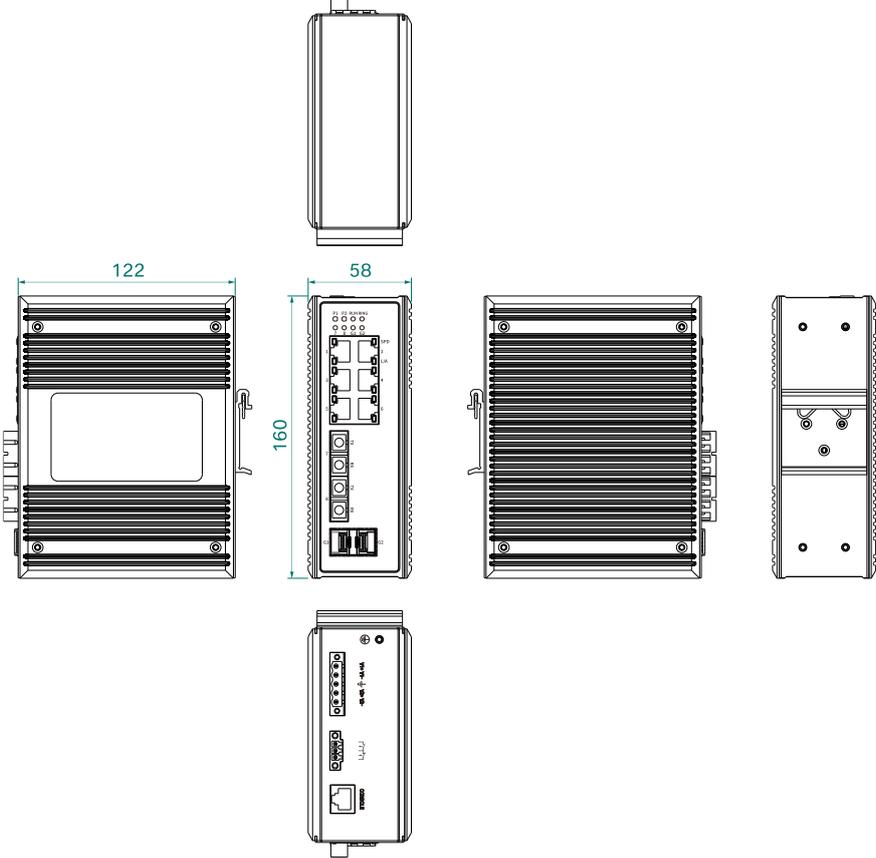
Specification

| | |
|---------------------------------|---|
| CONSOLE | 1 CONSOLE port with a RJ45 connector, supporting RS232 signal for device debugging and command configuration |
| Status LED | Power indicator, Operation indicator, Ring status indicator, FX port indicator, TX port speed and Link/Activity status indicator |
| Power Supply | |
| Input Voltage | Dual DC9~60V power input |
| Power Consumption | <6W @DC12V(full load) |
| Connection | 5.08mm pitch 5-pin terminal block |
| Protection | Non-polarized |
| Physical Characteristics | |
| Dimensions | 160x58x122 mm (DIN rail mounting clip excluded) |
| Installations | Easy installation on 35mm DIN rails |
| IP Code | IP40 |
| Weight | 0.8kg |
| Working Environment | |
| Operating Temp | -40°C~+85°C |
| Storage Temp | -40°C~+85°C |
| Relative Humidity | 5%~95% (non-condensing) |
| Industry Standard | |
| EMC | IEC 61000-4-2 (ESD): Level 4 (contact discharge $\pm 8\text{kV}$, air discharge $\pm 15\text{kV}$) IEC 61000-4-5 (Surge): Level 4 (power supply: common mode $\pm 4\text{kV}$, differential mode $\pm 2\text{kV}$; Ethernet port: common mode $\pm 6\text{kV}$, differential mode $\pm 2\text{kV}$) IEC 61000-4-4 (EFT): Level 4 (power supply: $\pm 4\text{kV}$; Ethernet port: $\pm 2\text{kV}$) |
| Certification | CE, FCC, RoHS |



Dimensions

Unit: mm





Ordering Information

| Standard Model | 1G Fiber Port | 100M Fiber Port | 10/100M Copper Port | Input Voltage |
|------------------------|---------------|-----------------|---------------------|--------------------------|
| MISCOM7210-2GF-2F(M/S) | 2 | 2 | 6 | Dual DC9~60V power input |



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