MISCOM6218-2F

18-Port Layer 2 Managed DIN Rail Industrial Ethernet switch

- 2×100Base-FX ports (multi/single-mode, SC/FC/ST connector), 16×10/100Base-T(X) ports (RJ45 connector)
- Support ring network redundancy protocols like MW-Ringv1/v2, ERPS, STP/RSTP, enhancing network reliability
- Fast ring network redundancy (MW-Ringv1/v2) with less than 20ms latency, improving system communication reliability
- Support QoS (Quality of Service) with priority mapping based on 802.1P/DSCP/port, enhancing communication quality
- Support single AC85264V/DC110370V power supply or dual DC 9~60V power input optional
- With IP40 high-strength metal enclosure and fanless design, the device can reliably operate in the temperature ranging from -40°C to +75°C

Product Description

MISCOM6218-2F series is a layer 2 managed industrial Ethernet switch, featuring 2×100Base-FX ports and 16×10/100Base-T(X) ports. It utilizes a store-and-forward mechanism, providing robust bandwidth processing capabilities while automatically detecting and reducing packet errors, ensuring stable, reliable, and efficient data transmission. The product is built with industrial-grade components and adheres to high-standard system design and production control. It can be mounted on a 35mm standard DIN rail and features a high-strength metal enclosure, making it rugged and durable. With fanless heat dissipation, it can operate in a wide temperature range from -40℃ to +75℃. Its high-standard industrial protection design allows it to adapt to various harsh working environments, ensuring stable communication performance.

MISCOM6218-2F series support WEB-based network management functions and various 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 logging, alarms, SNTP, system logs, and online system upgrades. These features enhance network performance, reliability, and security, catering to the demands of complex networks. The product has undergone rigorous testing, including functional, high/low-temperature, safety, and EMC tests, meeting the requirements of complex network applications in harsh industrial environments. It can be widely applied in various fields, including comprehensive energy, smart cities, rail transportation, intelligent traffic, smart factories, and industrial automation.

Features and Benefits

- Support rate limiting for broadcast, unknown multicast, and unknown unicast packets, with broadcast and multicast storm detection to prevent network storms
- Support both static aggregation and LACP dynamic aggregation to increase transmission bandwidth and improve link reliability
- Support port mirroring to capture data at port entrances and exits for network detection and fault management
- Support 802.1Q VLAN, offering Access, Trunk, and Hybrid interfaces for easy segmentation of multiple broadcast domains, enhancing network security
- Support IGMP snooping, establishing a layer 2 multicast forwarding table to reduce multicast data broadcast in the network, saving network resources
- Support LLDP (Link Layer Discovery Protocol) for obtaining information about LLDP neighbor devices, monitoring link status, and facilitating topology management and fault localization
- Support ERPS (Ethernet Ring Protection Switching) for multiple-ring network protection, link backup, fast convergence, and enhanced network stability
- Support RSTP (Rapid Spanning Tree Protocol), and compatible with STP (Spanning Tree Protocol), to eliminate network loops and improve network reliability
- Support web-based control with HTTP and HTTPS protocol access control, including login IP address restrictions
- Support centralized management with SNMPv1/v2c/v3 and SNMPv1/v2c/v3 TRAP notifications, including support for standard and private TRAPs
- Support RMON (Remote Network Monitoring) for remote monitoring and management of various types of data frames, including statistics and alarms for use in network management systems
- Support QoS (Quality of Service) to prioritize voice, video, and critical data transmission within the network, addressing network congestion
- Support ACL (Access Control List) with customizable frame type filtering rules, allowing filtering or rate limiting of specified packets
- Support 802.1X port authentication for user authentication at network access points, providing local and RADIUS-based login authentication
- Support alarm functions, including dual power loss, network storms, and port link status alerts
- Support loopback detection to prevent network loops that can trigger network storms
- Support system logging with information recording, downloading, and categorization, with options to display logs on the web page, log host, and console

Specification

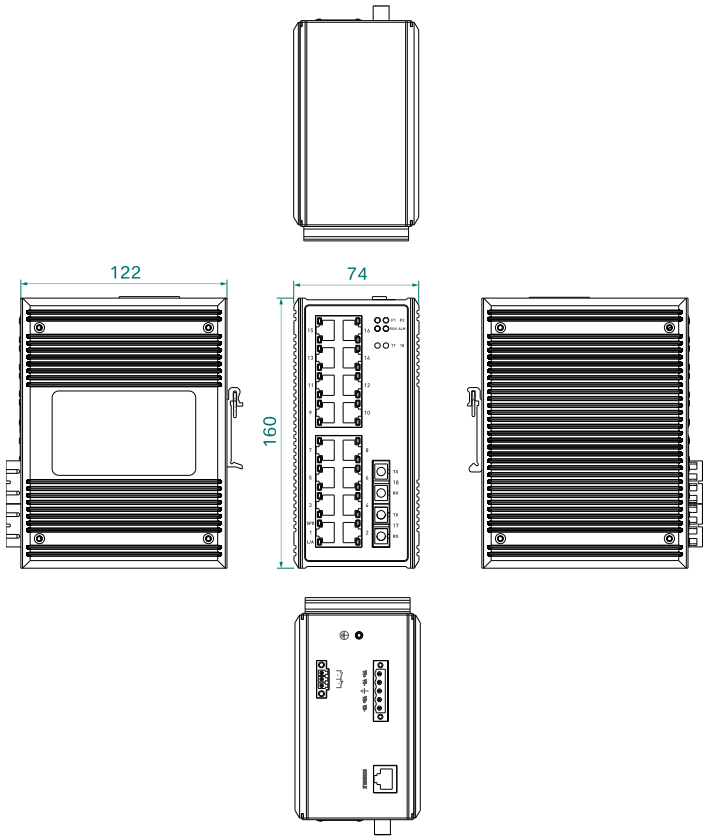
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP (Link Aggregation Control Protocol), and port statistics Support 802.1Q VLAN and port isolation Support MAC address aging and static MAC address binding
Redundancy	Support MW-Ring v1/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 for efficient management of multicast traffic. Support static multicast MAC address binding to optimize multicast data distribution
Security Management	Supports WEB, TELNET, and SSH access control for secure management. Supports ACL (Access Control List) for access control policies and 802.1X port authentication Supports loopback detection, alarms, and email logging for network monitoring and management
Management and Maintenance	Support QoS (Quality of Service) for traffic prioritization and management Support SNMP v1/v2c/v3 for network monitoring and management Support SNMPv1/v2c/v3 TRAP for SNMP notifications Support RMON (Remote Monitoring) for remote network monitoring Support LLDP (Link Layer Discovery Protocol) for device discovery and management Support port mirroring and Ping for network diagnostics Support user privilege management, system logging, local/network time synchronization, and daylight saving time (DST) adjustment Support online restart, factory reset, system upgrades, and configuration file upload/download Support MW-NMPv2, MixView, and MaxView
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	12.8Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	
100M Fiber Port	2×100Base-FX ports (single-mode/multi-mode, SC/FC/ST, wavelengths and transmission distances are optional)

Specification

100M Copper Port	16×10/100Base-T(X) auto-sensing RJ45 ports, support full/half duplex and auto MDI/MDI-X
Relay	1 relay alarm output with a 3.81mm spacing and 3-pin locking connector terminal
CONSOLE	1 console port with RS232 signal on a RJ45 connector, used for device debugging
Status LED	Power indicator, Running indicator, Alarm indicator, Interface indicator, TX port speed indicator
Power Supply	
Input Voltage	DC Model: Dual DC9~60V power input, reverse connection protection AC Model: Single AC85~264V/DC110~370V power supply
Power Consumption	＜10W@DC24V(full load)
Connection	5-pin terminal blocks with a 5.08mm spacing and locking connectors
Protection	Built-in overcurrent protection
Physical Characteristics	
Dimensions	160×74×122 mm (DIN rail mounting clip excluded)
Installations	Easy installation on 35mm DIN rails
IP Code	IP40
Weight	1.2kg
Working Environment	
Operating Temp	-40℃~+75℃
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 lightning protection IEC 61000-4-4 (EFT): Level 4
Certification	CE, FCC, RoHS

Dimensions

Unit: mm



Ordering Information

Standard Model	100M Fiber Port	10/100M Copper Port	Input Voltage
MISCOM6218-2F(M/S)	2	16	Dual DC9~60V power input
MISCOM6218-2F(M/S)-AD220	2	16	Single AC85~264V/DC110~370V power supply (dual power supply optional)

Contact Us

Wuhan Maiwe Communication Co., Ltd

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

Tel: 027 8717 0217

Mail: enquiry@maiwe.com

Official site: www.maiwe.com