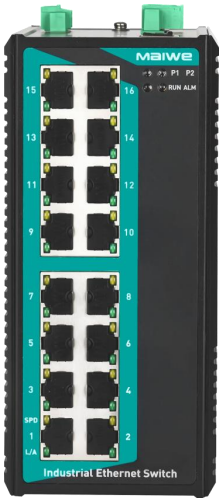
MISCOM6216

16-Port Layer 2 DIN-Rail Managed 100M Industrial Ethernet Switch



- Support 16*100M copper ports
- Support redundancy protocols like MW-Ring, ERPSv1/v2, STP/RSTP for ring network reliability
- MW- Ring allows networks to recover within 20 ms
- Support QoS to allow 802.1P/DSCP/port-based priority mapping
- Support single AC85~264V/DC110~370V power supply, or dual DC9~60V redundant power input
- High strength aluminum alloy shell, IP40 protection, Fanless design, case heat dissipation,Work in -40℃~+75℃

Product Description

The MISCOM6216 series is a layer 2 managed DIN-rail industrial Ethernet switch. It supports 16*100M copper ports and utilizes a store-and-forward, offering robust bandwidth processing capabilities. It automatically detects data packet errors, reducing transmission faults, and effortlessly supports 100Mbps networking, ensuring stable, reliable, and efficient data transmission. The product is built using industrial-grade components, adhering to high-quality system design and production control standards. It features a standard 35mm DIN rail installation, a high-strength aluminum alloy casing for durability, fanless heat dissipation, and operates in a wide temperature range from -40℃ to +75℃. It is designed with high-standard industrial protection to adapt to various challenging working environments, ensuring stable communication performance.

The MISCOM6216 series can be managed through WEB or SNMP interfaces, offering a range of commonly used advanced management features, including MW-Ring, ERPSv1/v2, STP/RSTP, VLAN, LACP, LLDP, RMON, ACL, QoS, 802.1X, IGMP Snooping, WEB/TELNET/SSH access control, port aggregation, port mirroring, static MAC address forwarding table, network diagnostics, loopback detection, email logs, relay alarms, and online firmware upgrades. The product finds wide applications in various industrial sectors, including comprehensive energy, smart cities, intelligent transportation, smart factories, and industrial automation

Features and Benefits

- Support rate limiting for broadcast, unknown multicast, and unknown unicast frames, as well as detection of broadcast and multicast packet storms to prevent network storms
- Support both static link aggregation and LACP dynamic link aggregation to increase transmission bandwidth and enhance link reliability
- Support port mirroring to capture data at both the ingress and egress ports for network monitoring and fault management
- Support 802.1Q VLAN, providing Access, Trunk, and Hybrid interfaces for dividing multiple broadcast domains, enhancing network security
- Support IGMP Snooping to establish Layer 2 multicast forwarding tables, reducing multicast broadcast in the network and saving network resources
- Support LLDP (Link Layer Discovery Protocol) for obtaining information about LLDP neighbor devices, enabling link state monitoring for topology management and fault localization
- Support ERPSv1/v2 Ethernet Ring Protection Switching technology, providing multiple ring network configurations, link backup, rapid convergence, and improved network stability
- Support RSTP (Rapid Spanning Tree Protocol) and is compatible with STP (Spanning Tree Protocol) to eliminate network loops and improve network reliability
- Support SNMPv1/v2c/v3 centralized management and SNMPv1/v2c/v3 TRAP messages, supporting national grid standard TRAP
- Support RMON (Remote Network Monitoring) for statistics and alarms on 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 important data for transmission in network devices, addressing network congestion
- Support ACL (Access Control Lists) based on source/destination IP and MAC addresses, allowing filtering of TCP/UDP/ICMP/IGMP packets
- Support 802.1X port authentication for user authentication at access points, providing local and RADIUS login authentication
- Support loopback detection to prevent network loops and network storms

Specification

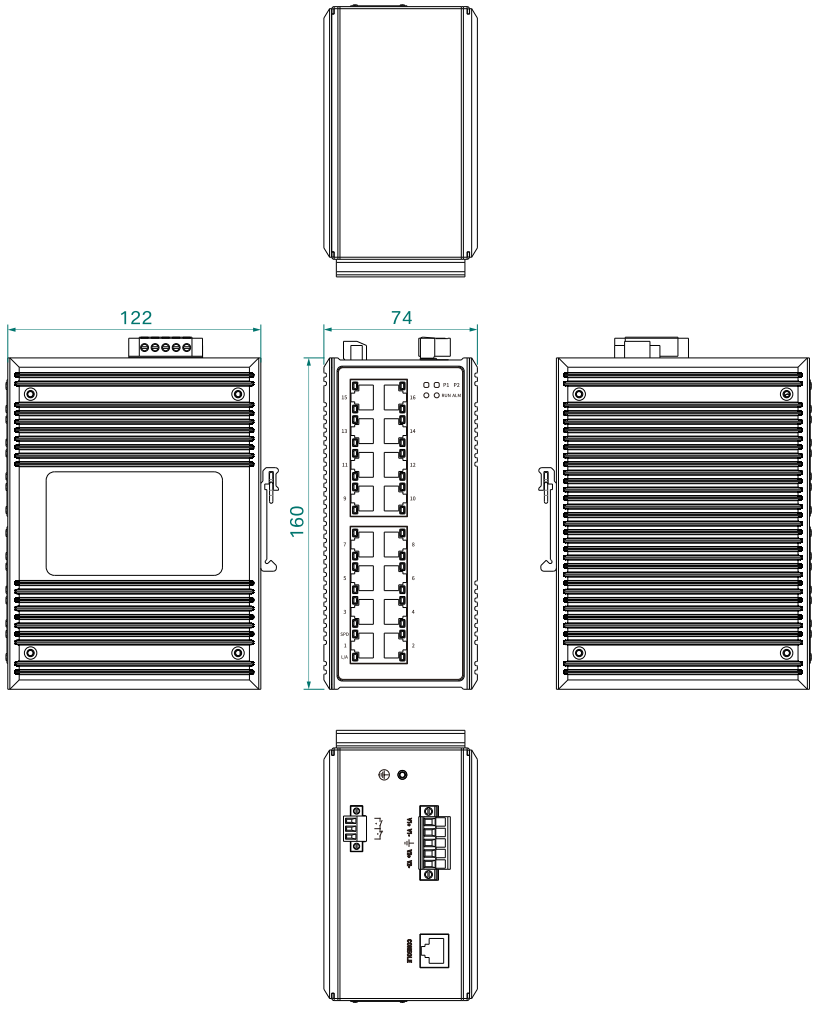
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP (Link Aggregation Control Protocol), and port statistics. Support 802.1Q VLAN and port isolation. Support MAC address aging and static unicast MAC address binding
Redundancy	Support ERPSv1/v2 Provide Maiwe private ring network technology like MW-Ring/ MW-RingV2 Support RSTP, Compatible with STP
Multicast	Support IGMP Snooping. Support static multicast MAC address binding
Security Management	Support access control for WEB, TELNET, and SSH Support ACL (Access Control Lists) for access control Support 802.1X port authentication Support loopback detection, relay alarms, and Email logs
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 permission management, system logs, SNTP client, and Daylight Saving Time (DST) Support online reboot, factory reset, system upgrades, and configuration file upload/download Support master computer software management
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	12.8Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	
100M Copper Port	16*10/100Base-T(X) auto-sensing copper ports, support full/half duplex, auto MDI/ MDI-X
Relay	1 relay alarm output, 3.81mm pitch 3 pin terminal block
CONSOLE	1*console port,RS-232 serial port with an RJ-45 connector, Used for equipment debugging
Status LED	Power, running status, alert, copper port rate, connection status
Power Supply	

Specification

Input Voltage	DC models:DC9~60V， dual power redundancy, Reverse polarity protection AC models:AC85~264V/DC110~370V
Power Consumption	＜8W@DC24V(full load)
Connection	5.08mm pitch 5-pin terminal blocks with lock mechanism
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　copper ports support 6kV surge protection IEC 61000-4-4(EFT): Level 4
Certification	CE, FCC, RoHS

Dimensions

Unit:mm



Ordering Information

Standard Model	100M Copper Port	Input Voltage
MISCOM6216	16	Dual DC9~60V
MISCOM6216-AD220	16	Single AC85~264V / DC110~370V

Contact Us

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