MISCOM8220G-4GF-16GT

20-port Layer 3 Full Gigabit Managed DIN-RAIL Industrial Ethernet Switch

- Support 4-channel Gigabit SFP interface, can support hot-swappable LC fiber interface module and RJ45 copper interface module;
- Support 16-channel 10/100/1000Base-T RJ45 interface, providing users with flexible networking mode;
- The fast ring network redundancy technology of less than 20ms enhances the reliability of system communication;
- Support static routing, support RIP v1/v2, OSPF v1/v2 and other dynamic routing protocols;
- Support multiple multicast protocols such as IGMP, PIM-SM, PIM-DM, etc.
- The use of high-strength enclosed aluminum shell, IP40 protection level, no fan shell fan heat, durable, stable and reliable;
- -40℃~70℃ working temperature, meeting the application requirements of harsh industrial environment;
- It adopts industrial-grade low-power power supply design, and a variety of power supply schemes are available to meet the flexible application of users.

CE FC RoHS MW-Ring IP40

Product Description

MISCOM8220G series is a full gigabit industrial Ethernet switch, which is designed and developed specifically for the convergence layer application of industrial communication networks. The switch provides a high-end industrial Ethernet communication solution for complex industrial application requirements, which makes industrial communication smoother, more reliable, and faster, and meets the continuous innovation needs of customers to increase value-added applications.

MISCOM8220G series layer 3 full Gigabit switches follow the main communication standards in the industrial field to meet technical issues such as real-time communication and network security. At the same time, it provides multiple ways to manage the switch, including accessing the command line interface of the switch through the hyper terminal, or managing the switch through the telnet management system, or using the SNMP management software system to manage the switch. In addition, it also supports multiple network monitoring protocols: LLDP, SNTPv4, DHCP, layer 3 routing function can also provide a number of advanced management functions. In terms of device management, it supports FTP/TFTP upgrades, log recording and uploading, and power failure alarm output. In terms of structural installation, it supports card rail installation. Products are widely used in industrial fields such as integrated energy, smart cities, rail transit, intelligent transportation, and industrial automation.

Product Features

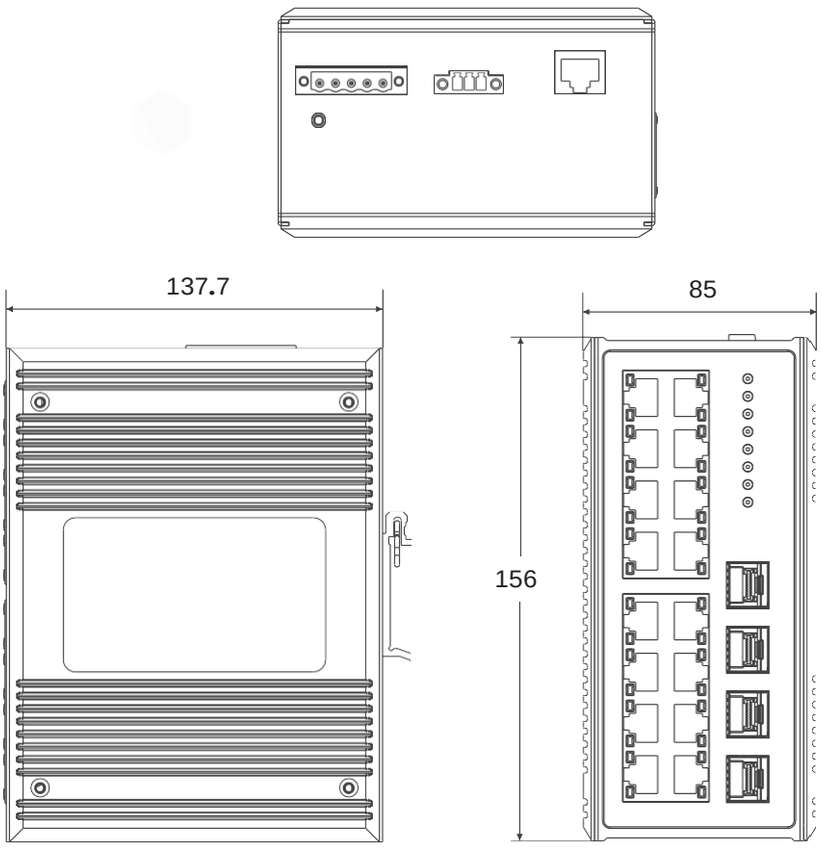
- Support 4-channel Gigabit SFP interface, support hot-swappable LC fiber interface module and RJ45 copper interface module;
- Support 16-channel 10/100/1000Base-T RJ45 interface, providing users with flexible networking mode;
- The fast ring network redundancy technology of less than 20ms enhances the reliability of system communication;
- Support multiple redundancy protocols such as ERPS, MSTP, VRRP;
- Support static routing, support RIP v1/v2, OSPF v1/v2 and other dynamic routing protocols;
- Support multiple multicast protocols such as IGMP, PIM-SM, PIM-DM, etc.;
- Support VLAN based on IEEE802.1Q, the number is 4094;
- The MAC address table supports 16K;
- Support perfect QoS strategy and multiple queue scheduling algorithms;
- Support to access the switch through WEB;
- Support broadcast, multicast, unknown unicast storm suppression;
- Support full-duplex and half-duplex mode flow control;
- Reliability: MTBF≥300000 hours;
- Based on WEB online upgrade, it is convenient for users to manage and update equipment;
- With graphical network configuration and management and maintenance functions;
- Meet the requirements of trouble-free work in a strong electromagnetic interference environment.

Product Specification

Product Parameters	
IEEE standard	802.3i, 802.3u, 802.3ab, 802.3z, 802.3ae, 802.3ad, 802.3x, 802.1p, 802.1Q, 802.1w, 802.1s, etc.
Exchange function	Support VLAN, GVRP
	Support port speed limit, support storm suppression
	Support port aggregation
	Support port flow control
Redundant technology	Support VRRP, ERPS
	Support MW-Ring ring network technology
	Support MSTP/RSTP, compatible with STP
Multicast technology	Support IGMP v1/v2/v3, IGMP Snooping
	Support GMRP
	Support static multicast, support PIM-SM, PIM-DM
Routing technology	Support RIPv1/v2, RIPng, OSPFv1/v2
	Support static routing protocol
Service quality management	Support ACL, filter the data of L2-L7 layer
	Support SP, WRR queue scheduling
Management and maintenance	Support Console, Telnet, WEB management mode, RMON
	Support SNMPv1/v2c, centralized management through MaxView
	Support FTP, TFTP file transfer and software upgrade
	Support power failure alarm, power supply alarm, port alarm, ring network storm alarm
	Support port mirroring, Syslog, LLDP, RTC, SNTPv4
	IP supports DHCP server/relay/client
Exchange method	Store and forward
Backplane bandwidth	40Gbps
Packet forwarding rate	29.76Mpps
Gigabit port	16 10/100/1000Base-T+4 1000Base-LX ports
Copper port parameters	Physical interface: RJ45 with shielding, IEEE802.3 standard
	RJ45 port: 10/100/1000Base-T (Gigabit) supports auto-negotiation function
	Transmission distance: 100 meters (standard CAT5/CAT5e cable)
Fiber port parameters	Luminous power: >-12dBm (single mode) >-17dBm (multimode)
	Receiving sensitivity: <-38dBm (single mode) <-35dBm (multimode)
	Wavelength: 1310nm/1550nm (single mode) 850 nm/1310 nm (multimode)
	Transmission distance: Multimode fiber 850nm, 2km; 1310 nm, 2/5km; Single-mode fiber 1310nm, 20/40/60km; 1550nm, 20/40/60/80/120km
	Connector type: LC
	Transmission rate: 1.25Gbps (Gigabit)
Power parameters	Input voltage: 24DC(18-36VDC), 48DC(36-72VDC), 220AD(85-264VAC/110-370VDC)
	Input power consumption: 15W (MAX)
	Overcurrent protection: built-in
Mechanical parameters	Physical dimensions (width × height × depth): 156mm × 85mm × 137.7mm
	Installation method: standard DIN rail type

	Heat dissipation form: aluminum alloy single-rib chassis surface heat dissipation, no fan
	Case protection: IP40
Working environment	Working temperature: -40℃~+70℃
	Storage temperature: -40℃~+85℃
	Humidity: 5%~95% (no condensation)
EMC standards	EN61000-4-2 anti-static (ESD): ±8kV contact discharge, ±15kV air discharge
	EN61000-4-3 electromagnetic field: 10V/m (80-1000MHz)
	EN61000-4-6 anti-conduction: 3V (10kHz~150 kHz), 10V (150kHz~80 MHz)
	EN55022: EN55022 Class A

Installation Size



Ordering Information

Product Model	Gigabit SFP	Gigabit RI45	Power
MISCOM8220G-4GF-16GT-DC24	4	16	Dual DC24V
MISCOM8220G-4GF-16GT-DC48	4	16	Dual DC48V
MISCOM8220G-4GF-16GT-AD220	4	16	Single AC/DC220V