MISCOM8028G-4GF-8GC-16GT

28-port Layer 3 Full Gigabit Rack-mounted Managed Industrial Ethernet Switch

- Support 4 Gigabit SFP fiber ports, 8 Gigabit Combo multiplexing ports, 16 10/100/1000Base-T(X) ports, providing users with flexible networking methods;
- Support multiple redundancy protocols such as MW-Ring, ERPS, MSTP, VRRP, etc;
- Support static routing, support RIP v1/v2, OSPF v1/v2 and other dynamic routing protocols;
- Support multiple multicast protocols such as IGMP, PIM-SM, and PIM-DM;
- The high-strength enclosed aluminum housing, IP40 protection level, and efficient heat dissipation without fans, enables the system to work reliably in harsh and dangerous industrial environments at -40~+70°C.

CE FC RoHS MW-Ring IP40

Product Description

MISCOM8028G series is a full gigabit industrial Ethernet switch is specially designed and developed for the application of the convergence layer of industrial communication networks. This switch provides a high-end industrial Ethernet communication solution for complex industrial application requirements, making industrial communication smoother, more reliable, and faster, and meets customers' continuous innovation needs to increase value-added applications.

MISCOM8028G series three-layer switches follow the main communication standards in the industrial field and meet technical issues such as real-time communication and network security. At the same time, it provides a variety of 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. The layer 3 routing function can also provide multiple advanced management functions, such as: MSTP, VRRP, IGMP, IGMP Snooping, internal routing protocols RIPv1/v2 and OSPF v1/v2, static routing protocol, VLAN, GVRP, QoS, port aggregation, port speed limit, broadcast storm suppression, ACL, port mirroring, and other commonly used 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, you can flexibly choose rack installation or desktop installation. Products are widely used in industrial fields such as integrated energy, smart cities, rail transit, intelligent transportation, and industrial automation

Product Features

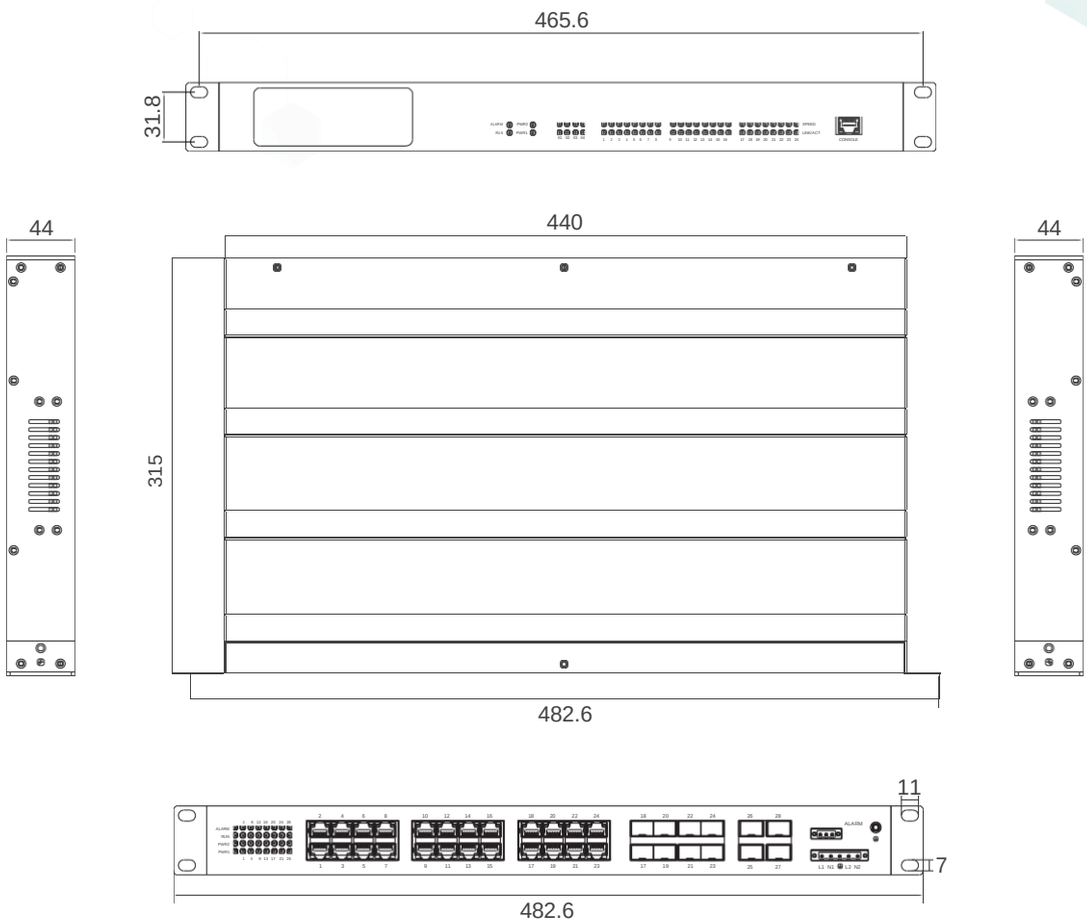
- Support 28 Gigabit Ethernet interfaces, providing users with flexible networking methods;
- 10/100/1000Base-T adaptive Ethernet interface (full duplex, half duplex), supports automatic MDI/MDI-X connection;
- The fast ring network redundancy technology of less than 20ms enhances the reliability of system communication;
- Support VLAN based on IEEE802.1Q, the number is 4096;
- 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;
- The MAC address table supports 16K;
- Support perfect QoS strategy and multiple queue scheduling algorithms;
- Support multiple network management protocols such as SNMP, RMON, Telnet, etc.;
- Supports access to the CLI of the switch through software such as HyperTerminal;
- Support hardware ACL function, provide ACL hardware filtering based on L2-L7 layer data;
- Support IGMP Snooping detection function;
- Support full-duplex and half-duplex flow control;
- Support power alarm, port alarm, ring alarm function, support broadcast storm suppression;
- Online software upgrade based on FTP/TFTP can facilitate user equipment management and update;
- With graphical network configuration and management and maintenance functions.

Product Specifications

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	56Gbps
Packet forwarding rate	41.664Mpps
Gigabit port	16 10/100/1000Base-TX Ports + 4 1000Base-LX Ports + 8 Gigabit Combo Ports
Copper port	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	Luminous power: >-12dBm (single mode) >-17dBm (multimode)
	Receiving sensitivity: <-38dBm (single mode) <-35dBm (multimode)
	Wavelength: 1310nm (single mode) 1550nm (single mode) 850 nm (multimode) 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	Input voltage: 220AC/DC (85-264VAC/110-370VDC)
	Input power consumption: 27W (MAX)
	Overcurrent protection: built-in
Mechanical	Physical dimensions (width × height × depth): 482.6mm × 44mm × 315mm
	Installation method: standard 19’ 1U rack
	Heat dissipation form: aluminum alloy single-rib chassis surface heat dissipation, no fan
	Outlet form: front and rear outlet
	Case protection: IP40
Working environment	Working temperature: -40℃~+70℃
	Storage temperature: -40℃~+85℃
	Humidity: 5%~95% (no condensation)
EMC	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

Model	1000 Base-LX	Gigabit Combo ports	10/100/1000 Base-TX	Power
MISCOM8028G-4GF-8GC-16GT-AD220	4	8	16	Single AC/DC220V
MISCOM8028G-4GF-8GC-16GT-2AD220	4	8	16	Dual AC/DC220V