MISCOM8052G-4XGF-48GT

52-port Layer 3 10 Gigabit Rack Mount Industrial Ethernet Switch

◆ 4-channel 10 Gigabit SFP+ Ethernet interfaces and 48-channel 10/100/1000 Base-T Ethernet interfaces, providing users with flexible networking methods;

◆ Support MW-Ring, ERPS, MSTP, VRRP and other redundant protocols;

◆ Support static routing, support RIP v1/v2, OSPF v1/v2 and other dynamic routing protocols;

◆ Support IGMP, PIM-SM, PIM-DM and other multicast protocols;

◆ High-strength closed aluminum shell, IP40 protection level, no fan for efficient heat dissipation, so that the system can work reliably in the industrial environment of -10~+60℃.

CE FC RoHS CCC MW-Ring IP40

Product Description

MISCOM8052G-4XGF-48GT layer 3 10 Gigabit industrial Ethernet switch is specially designed and developed for the application of the convergence layer of the industrial communication network. This model adopts high-performance hardware and software platform to provide high-performance 10 Gigabit uplink ports and full Gigabit access of high-density ports, making industrial communication smoother, more reliable, and faster, satisfying customers' continuous efforts to improve value-added applications. The need for innovation.

MISCOM8052G-4XGF-48GT follows the main communication standards in the industrial field and meets 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 (CLI) of the switch through HyperTerminal, or managing the switch through the telnet management system, or using the SNMP management software system to manage the switch, and also supports multiple network monitoring protocols: LLDP, SNTPv4, DHCP. Layer 3 routing also provides 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 common advanced management functions. In terms of device management, it supports FTP/TFTP upgrade, 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 integrated energy, smart city, rail transit, intelligent transportation, industrial automation and other industrial fields.

Product Features

- 4-channel 10 Gigabit SFP+ Ethernet interfaces and 48-channel 10/100/1000Base-T Ethernet interfaces, providing users with flexible networking methods;

- The hot-swappable SFP+ 10 Gigabit optical module is also backward compatible with the Gigabit optical module;

- The fast ring network redundancy technology of less than 20ms enhances the reliability of system communication;

- Support IP subnet-based, protocol-based, MAC-based and IEEE802.1Q-based VLAN;

- Support EAPS, ERPS, MSTP, VRRP and other redundant protocols;

- Support static routing, support RIP v1/v2, OSPF v1/v2 and other dynamic routing protocols;

- Support IGMP, GMRP, PIM-SM, PIM-DM and other multicast protocols;

- The MAC address table supports 16K;

- Support perfect QoS strategy and multiple queue scheduling algorithms;

- Support various network management protocols such as SNMP, CLI, Telnet and SSH;

- Support hardware ACL function, provide ACL hardware filtering based on L2-L7 layer data;

- Support IGMP Snooping detection function;

- Support broadcast storm suppression;

- Support full-duplex and half-duplex flow control;

- Support power alarm, port alarm, ring alarm function;

- The online software upgrade based on FTP/TFTP can facilitate the user's equipment management and update;

- With graphical network configuration and management and maintenance functions.
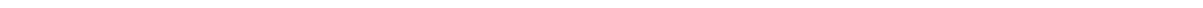
Product Specifications

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
Redundancy 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 to filter L2-L7 layer data
	Support SP, WRR queue scheduling
Management and maintenance	Support Console, Telnet, WEB management, RMON
	Support SNMPv1/v2c, can be centrally managed through MaxView
	Support FTP, TFTP file transfer and software upgrade
	Support power failure alarm, power alarm, port alarm, ring network storm alarm
	Supports port mirroring, Syslog, LLDP, RTC, SNTPv4
	IP supports DHCP server/relay/client
Exchange method	store and forward
Backplane bandwidth	176Gbps
packet forwarding rate	130Mpps
Gigabit port	48 10/100/1000Base-T ports
10 Gigabit port	4 10GBase-LR ports, backward compatible with 1000Base-LX 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)
	Receiver sensitivity: <-38dBm (single mode) <-35dBm (multimode)
	Wavelength: 1310nm (single-mode) 1550nm (single-mode) 850 nm (multi-mode) 1310 nm (multi-mode)

	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: 10Gbps (10 Gigabit)
Power	Input voltage: 220AC/DC (85-264VAC/110-370VDC)
	Input power consumption: 45W (MAX)
	Overcurrent Protection: Built-in
Physical	Physical Dimensions (W×H×D): 482.6mm×44mm×315mm
	Installation method: standard 19' 1U rack type
	Heat dissipation form: aluminum alloy single rib chassis surface heat dissipation, no fan
	Outlet form: front and rear
	Case protection: IP40
Working environment	Working temperature: -10℃~+60℃
	Storage temperature: -10℃~+70℃
	Humidity: 5%~95% (non-condensing)
EMC	EN61000-4-2 (ESD): ±8kV(contact), ±15kV(air)
	EN61000-4-3 (RS): 10V/m (80MHz-2GHz)
	EN61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV
	EN61000-4-5 (Surge): Power Port: ±4kV/DM; ±2kV/CM
	Data Port: ±2kV/DM: ±6kV/CM
	EN61000-4-6 (CS): 3V (10kHz~150kHz), 10V (150kHz~80MHz)
Mechanical	IEC60068-2-6 (Vibration)
	IEC60068-2-27 (Shock)
	IEC60068-2-27 (Shock)

Installation Size

465.6

31.8

44

440

315

44

482.6

11

7

482.6
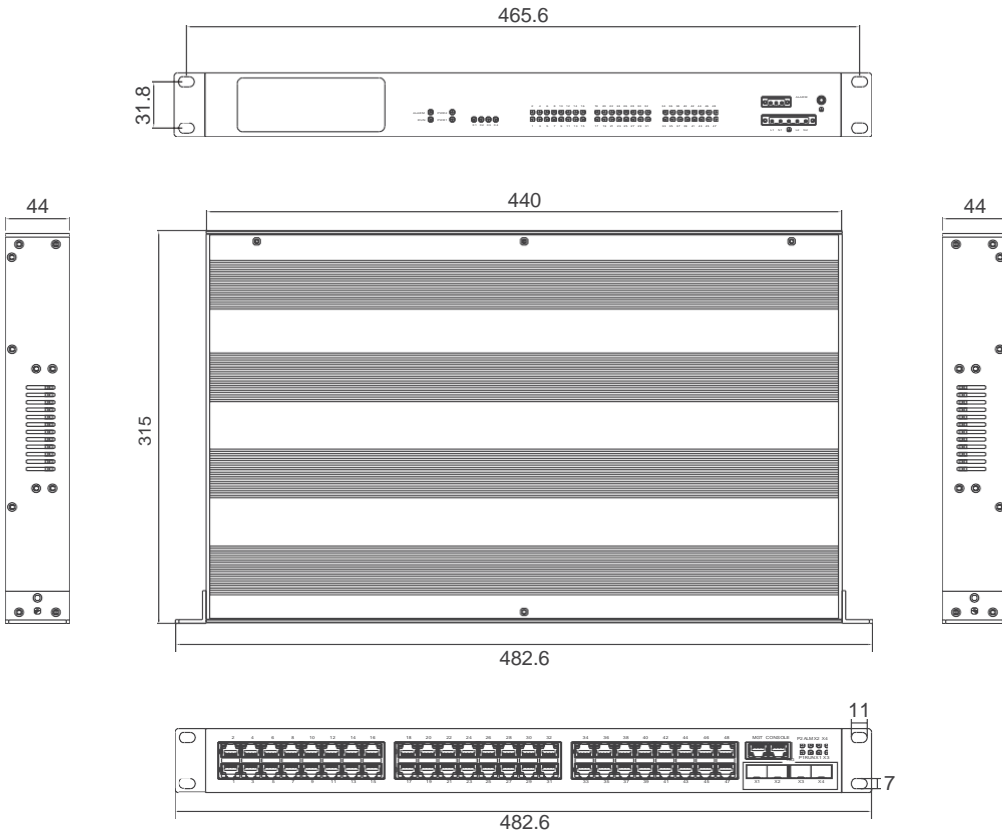
Ordering Information

Model	10 Gigabit SFP+	10/100/1000M Base-TX	Power
MISCOM8052G-4XGF-48GT-AD220	4	48	Single AC/DC220V