

# MISCOM8028GX-4XGF-8GC-16GT

## 28-Port Layer 3 10G Rack-Mount Industrial Ethernet Switch



- 4\*10G SFP+ ports, 8 Gigabit Combo ports and 16 Gigabit copper ports
- Support ring network redundancy protocols such as MW-Ring, EAPS, ERPS, STP/RSTP/MSTP to improve network reliability
- Support static routing, RIPv1/v2, OSPF dynamic routing protocols, enabling route selection and packet forwarding
- Support single or dual AC85~264V/DC110~370V power input optional, dual input support power redundancy
- High strength aluminum alloy shell, IP40 protection level, fanless heat dissipation, can reliably work in harsh industrial environments of -40 °C ~+70 °C



### Product Description

The MISCOM8028GX-4XGF-8GC-16GT layer 3 10G rack-mount industrial Ethernet switch supports 4\*10G SFP+ ports, 8\*Gigabit combo ports and 16\*Gigabit copper ports. Adopting a storage and forwarding mechanism, it has powerful bandwidth processing capabilities, automatically troubleshooting data packet errors, reducing transmission failures, and easily supporting gigabit networking to ensure stable, reliable, and efficient data transmission. The product uses industrial grade components, combined with high standard system design and production control. It is designed with high strength durable aluminum alloy shell, fanless efficient heat dissipation, -40°C ~ + 70°C wide temperature work, high standard industrial protection design, can adapt to a variety of harsh working environment, stable communication performance.

The MISCOM8028G-4XGF-8GC-16GT switch follows the main communication standards in the industrial field, meeting technical requests of real-time communication and network security. It provides multiple ways to manage switches, such as accessing the switch command line (CLI) through the CONSOLE port or TELNET/SSH protocol, accessing the switch web interface through HTTP/HTTPS, and accessing the device MIB through the SNMP protocol. It supports multiple network protocols and industry standards, such as RIP, OSPF, VRRP, PIM, EAPS, ERPS, STP/RSTP/MSTP, VLAN, QoS, LACP, IGMP, IGMP Snooping, GMRP, LLDP, 802.1X, ACL, DHCP, SNTP, port mirroring, Ping, Tracert, etc. Support system management such as uploading and downloading configuration files, and upgrading image files online. In terms of installation, it is flexible to choose between rack mounted or desktop mounted. The product is widely applicable in fields such as comprehensive energy, smart cities, rail transit, intelligent transportation, smart factories, and industrial automation.



## Product Features

- Support broadcast, unknown multicast and unknown unicast text rate limit, broadcast and multicast data packet storm detection, prevent broadcast storm
- Support link static aggregation and dynamic aggregation LACP, which can increase transmission bandwidth, improve link reliability and realize network load balance
- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interface easy to divide multiple broadcast domain, enhance the security of the network
- Support VLAN division based on port, MAC, protocol, IP subnetwork, etc., which can be applied to networks in different environments
- Support GVRP protocol, realize dynamic distribution, registration and propagation of VLAN attributes, and maintain dynamic VLAN
- Support the MAC address table and the aging time limit, and the static unicast / multicast MAC address is bound with the interface, to ensure the use of legitimate users
- Support PIM, IGMP, GMRP, IGMP Snooping multicast protocols to reduce the broadcast of multicast data in the network and save network resources
- Support LLDP link layer discovery protocol, obtain LLDP neighbor device information, conduct link status monitoring, facilitate topology management and fault location
- Support ERPS Ethernet multi-loop protection technology, provide multi-loop networking, link backup, achieve fast convergence and improve network stability
- Support STP, RSTP, MSTP generating tree protocol, which can eliminate network loop and improve network reliability
- Support EAPS loop protection protocol and MW-RingV2 private loop network protocol, enhance the reliability of system communication
- Support VRRP virtual routing redundancy protocol, forming multiple routing devices into a virtual router to realize redundant backup and load sharing
- Support IPv4 static routing configuration, RIPv1/v2, OSPF dynamic routing protocol, realize routing and message forwarding
- Support HTTP, HTTPS, TELNET, SSH network access mode, SSH can provide a secure remote login
- Support SNMPv1/v2c/v3, information query, information modification and troubleshooting through the MIB network management system, to achieve centralized management
- Support QoS service quality, give priority to voice, video and important data in network devices, and solve network congestion
- Support ACL access control list, filtering TCP/UDP/ICMP/IGMP messages based on source/destination IP and MAC address
- Support 802.1X port authentication, authentication and access control for access users

- Support DHCPv4 server, centralized dynamic management and configuration of user IP addresses
- Support dual power redundancy drop relay alarm and upper computer alarm, support port drops upper computer alarm

## Specification

Software	
Switching	Support port configuration, port speed limit, storm suppression, storm detection, static port trunk, LACP Support 802.1Q VLAN, port / MAC / subnet / protocol based VLAN division, GVRP, port isolation Support MAC address aging, static MAC address binding and filtering, MAC address learning restrictions
Redundancy	Support MW-RingV2 private ring network technology Support EAPS, ERPS Support STP/RSTP/MSTP
Multicast	Support IGMPv1/v2/v3, and IGMP Snooping Support the static multicast GMRP Support PIM-DM, PIM-SM
Routing	Support static routing Support RIPv1/ v2, OSPF dynamic routing Support VRRP
Security Management	Support HTTP, HTTPS, TELNET, and SSH access mode Support ACL and filtering data on the L2-L4 layer Support 802.1X port authentication and MAC address authentication Support ring detection, relay alarm
Management and Maintenance	Support DHCP Client/Server/Relay/Snooping Support QoS, SNMP v1/v2c/v3, SNMPv1/v2c Trap, LLDP Support port mirror, Ping, Tracert Support user rights management, system logs, local time setting synchronization, and SNTP network time synchronization Support online restart, factory reset, system upgrade, configuration file upload / download Support unified upper-level computer software management
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	128Gbps
Buffer Size	12Mbit
Mac Address Table	16K

## ☑☑☑ Specification

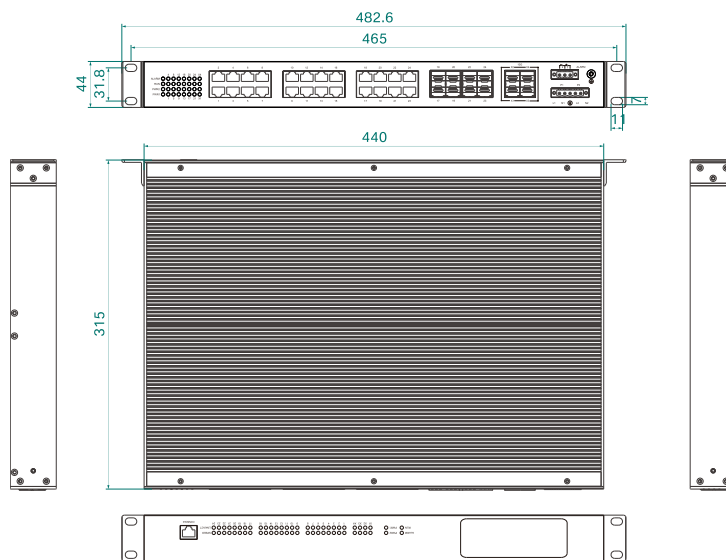
Interface	
10G Fiber Port	4*10GBase-R SFP+ ports, 1000Base-X compatible
Gigabit Combo Port	8*1G Combo ports, support 10/100/1000Base-T(X) auto-sensing RJ45 copper port or 1000Base-X Gigabit SFP port optional, the copper port supports full/half duplex, auto MDI/MDI-X connection
Gigabit Copper Port	16*10/100/1000Base-T (X) auto-sensing RJ45 ports, support full/half duplex, auto MDI/MDI-X
Relay	1 relay alarm output, 5.08 mm pitch 3-pin terminal block
CONSOLE	1 CONSOLE port, RS232 signal RJ45 port, used for device debugging and command line configuration
Status LED	Power LED, operation LED, alarm LED, port rate and connection/activity LED
Power	
Power Input	Single AC85~264V/DC110~370V (Dual redundancy input optional)
Power Consumption	< 30W@AC220V(full load)
Connection	5.08mm pitch 5-pin terminal block
Physical Characteristics	
Dimension	482.6×44×315 mm (Including mounting brackets)
Installation	Standard 19-inch 1U rack-mounting
IP Code	IP40
Weight	4kg
Working Environment	
Operating Temp	-40℃ ~+70℃
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 * Network port supports 6kV lightning protection

## Specification

	IEC 61000-4-4 (EFT): Level 4
Certification	CE, FCC, RoHS

## Dimension

Unit: mm





## Ordering Information

Standard Model	10G Fiber Port	1G Combo Port	1G Copper Port	Input Voltage
MISCOM8028GX-4XGF-8GC-16GT-AD220	4	8	16	Single AC85~264V / DC110~370V
MISCOM8028GX-4XGF-8GC-16GT-2AD220	4	8	16	Dual AC85~264V / DC110~370V



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