MISCOM8028GX-4XGF-16GF-8GC

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

- Support 4 10G SFP+ ports, 16 Gigabit SFP ports and 8 Gigabit combo ports
- Support ring network redundancy protocols such as MW-Ring, EAPS, ERPS, STP / RSTP / MSTP to improve the network reliability
- Support static routing, RIP v 1/v2, OSPF dynamic routing protocol, realize routing and forwarding
- Support dual AC85~264V / DC110~370V redundant power input or single AC85~264V / DC110~370V power supply
- High strength alloy shell, IP40 protection level, fanless heat dissipation, can reliably work in harsh industrial environments of -40 ℃~+70 ℃

Product Description

MISCOM8028GX-4XGF-16GF-8GC layer 3 industrial Ethernet switch supports 4*10G SFP+ ports, 16*1000M SFP ports and 8*1000M combo ports. It adopts a storage and forwarding mechanism and has strong bandwidth processing capabilities, automatically troubleshooting data packet errors, reducing transmission failures, and easily supporting 10G 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 standard 19-inch 1U rack installation, high strength durable aluminum alloy shell, fanless efficient heat dissipation, -40℃ ~ + 70℃ wide temperature work, high standard industrial protection design, which can adapt to a variety of harsh working environment, stable communication performance.

MISCOM8028GX-4XGF-16GF-8GC is layer 3 switch follows the communication standards in the industrial field and meets the technical enquiry such as real-time communication and network security. The product provides various ways of managing 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, Multiple network protocols and industry standards, such as RIP, OSPF, VRRP, PIM, MW-Ring, EAPS, ERPS, STP / RSTP / MSTP, VLAN, QoS, LACP, IGMP, IGMP Snooping, GMRP, LLDP, 802.1X, ACL,

DHCP, SNTP, port mirroring, Ping, Tracert, etc. It supports configuration file upload and download, mirror file online upgrade and other system management. In terms of structural installation, the layer 3 switch can be either rack mounted or desktop mounted. Which are widely used in comprehensive energy, smart city, rail transit, intelligent transportation, smart factory, industrial automation and other fields.

Features and Benefits

- Support the storm suppression of broadcast, multicast and unicast unknown single broadcast message, support the broadcast and multicast data packet storm detection, to prevent the 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 domains, 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 to dynamically distribute, register and propagate VLAN attributes, and maintain dynamic VLANs
- 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
- The PIM, IGMP, GMRP, IGMP Snooping and other multicast protocols are supported 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 link static aggregation and dynamic aggregation LACP, which can increase transmission bandwidth, improve link reliability and realize network load sharing
- 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, RIPv 1 / 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, through the MIB network management system can be information query, information modification and troubleshooting, 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 to centrally dynamically manage and configure user IP addresses
- Support dual power redundancy, drop relay alarm and upper computer alarm, support port drop line upper computer alarm

Technical specifications

Software	
Switching	Support port configuration, port speed limit, storm suppression, storm detection, static port aggregation, LACP Support 802.1Q VLAN, port/MAC/subnet/protocol-based VLAN division, GVRP, and port isolation Support MAC address aging, static MAC address binding and filtering, and MAC address learning restrictions
Redundancy	Support W-RingV2 private ring network technology Support EAPS Support 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 dual power redundancy drop relay alarm
Management and Maintenance	Support DHCP Server/Security/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
Backboard Bandwidth	128G
Cache Size	12Mbit

Technical specifications

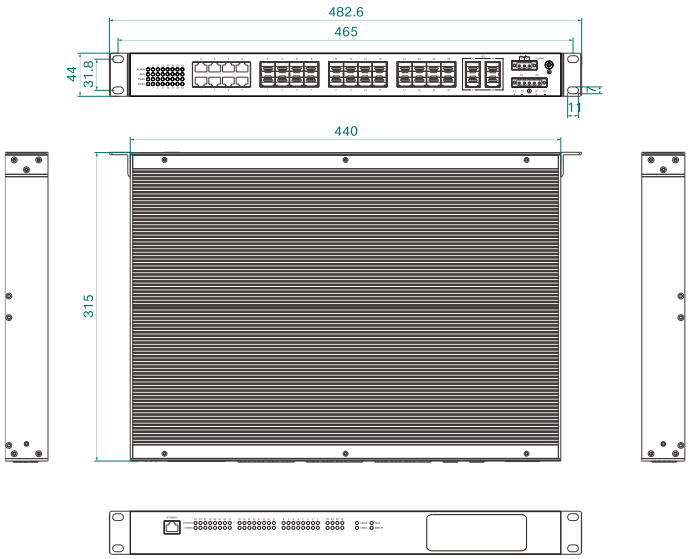
MAC Table Size	16K
Interface	
10G Fiber Port	4*10GBase-R SFP+
1000M Fiber Port	16*1000Base-X SFP
1000M Combo port	8*1000M Combo ports, support 10/100/10000 Base-T(X) auto-sensing RJ45 copper ports or 1000Base-X SFP ports, copper port supports full/half duplex, auto MDI /MDI-X
Relay	1 relay alarm output, 3-position 5.08mm pitch lock terminal block
Console	1 CONSOLE port of RS232 signal for equipment debugging and command line configuration
Indicator	Power indicator, operation indicator, alarm indicator, interface rate and connection / active status indicator
Power	
Power Input	Single or dual AC85~264V / DC110~370V power optional
Power Consumption	＜40W@AC220V full load
Connection	5-pin 5.08mm terminal block
Physical Characteristics	
Dimension	482.6×44×315mm (include mounting brackets)
Installation	Standard 19-inch 1U rack mount
IP Code	IP40
Weight	About 4kg
Working Environment	
Operating Temp	-40℃~+70℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (No condensation)

Technical specifications

Industry Standard	
EMC Protection	IEC 61000-4-2 (ESD): Level 4 IEC 61000-4-5 (Surge): Level 4 ※The network port supports 6kV lightning protection IEC 61000-4-4 (EFT): Level 4
Certification	CE, RoHs, FCC

Dimensions

Unit: mm



Ordering Information

Standard Model	10 Gigabit Fiber Port	1000M Fiber Port	1000M Combo Port	Input Voltage
MISCOM8028GX-4XGF-16GF-8GC-AD220	4	16	8	Single AC85~264V/ DC110~370V
MISCOM8028GX-4XGF-16GF-8GC-2AD220	4	16	8	Dual AC85~264V/ DC110~370V

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