MISCOM7028GX-4XGF-16GF-8GC

28-port Layer 2 10 Gigabit Rackmount Industrial Ethernet Switch

- Support 4-way 10G SFP+ slots, 16-way Gigabit SFP slots and 8-way Gigabit Combo photoelectric multiplexing ports, providing users with flexible networking methods

- Support MW-Ring, EAPS, ERPS, STP/RSTP/MSTP and other ring network redundancy protocols to improve network reliability

- Fast ring network redundancy (MW-Ring) less than 20ms, which enhances the reliability of system communication

- Support AC85~264V / DC110~370V AC/DC power input, dual power supply is optional

- High-strength aluminum alloy shell, IP40 protection level, fanless chassis heat dissipation, the equipment can work reliably in the harsh industrial environment of -40℃~+70℃

CE FC RoHS CCC ⚙ IP40

Product Introduction

MISCOM7028GX-4XGF-16GF-8GC is a layer 2 network management 10-gigabit rack-rack industrial Ethernet switch, which supports 4 10-gigabit SFP+ slots, 16 gigabit SFP slots and 8 gigabit Combo photoelectric multiplexing ports. It adopts store-and-forward mechanism and has powerful bandwidth processing capability, automatically troubleshooting data packet errors, reducing transmission faults, easily supporting 10-gigabit networking, and ensuring stable, reliable, and efficient data transmission. Product selects industrial components, with high standard system design and production control, standard 19 inch 1U rack installation, high-strength aluminum alloy shell, durable, fanless efficient heat dissipation, -40℃~+70℃ wide temperature operation, high standard industrial protection design, can adapt to a variety of harsh working environment, stable communication performance.

MISCOM7028GX-4XGF-16GF-8GC Layer 2 switch follows the main communication standards in the industrial field, and meets the technical problems such as real-time communication and network security. The product provides multiple ways to manage switches, such as accessing the switch command line (CLI) through the CONSOLE port or TELNET/SSH, accessing the switch WEB interface through HTTP/HTTPS, and accessing the device MIB through SNMP. It also provides multiple network protocols and industry standards, such as EAPS, ERPS, STP/RSTP/MSTP, VLAN, GVRP, QoS, LACP, IGMP Snooping, GMRP, LLDP, 802.1X, ACL, SNTP, port mirroring, Ping, Tracert, and so on. It also supports configuration file upload and download, image file online upgrade and other system management. In terms of structure installation, you can flexibly choose rack type or desktop type. Products are widely used in comprehensive energy, smart city, rail transit, intelligent transportation, smart factory, industrial automation and other fields.

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⚜ Product Features

- Support storm suppression for broadcast, multicast and unknown unicast packets, supports broadcast and multicast packet storm detection, and prevents broadcast storms

- Support link static aggregation and dynamic aggregation LACP, which can increase transmission bandwidth, improve link reliability and realize network load sharing

- Support port mirroring, which can collect port ingress, egress and bidirectional data for network detection and fault management

- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interfaces to easily divide multiple broadcast domains, and enhance network security

- Support VLAN division based on port, MAC, protocol, IP subnet, etc., applicable to networks in different environments

- Support GVRP protocol, realize dynamic distribution, registration and dissemination of VLAN attributes, and maintain dynamic VLAN

- Support MAC address table and aging time limit, static unicast/multicast MAC address and interface binding, to ensure the use of legitimate users

- Support IGMP Snooping, GMRP and other multicast protocols, reduce the broadcast of multicast data in the network, and save network resources

- Support LLDP link layer discovery protocol, obtain LLDP neighbor device information, monitor link status, facilitate topology management and fault location

- Support ERPS Ethernet multi-ring protection technology, provide multi-ring networking, perform link backup, realize fast convergence, and improve network stability

- Support STP, RSTP, MSTP spanning tree protocol, which can eliminate network loops and improve network reliability

- Support EAPS ring protection protocol and MW-RingV2 private ring network protocol, which enhances the reliability of system communication

- Support loopback detection to prevent network storms caused by network loops

- Support HTTP, HTTPS, TELNET, SSH network access methods, SSH can provide secure remote login

- Support SNMPv1/v2c/v3, through the MIB network management system, information query, information modification and troubleshooting can be performed to realize centralized management

- Support QoS quality of service, so that voice, video and important data are transmitted preferentially in network equipment, so as to solve network congestion

- Support ACL access control list, based on source/destination IP and MAC address, to filter TCP/UDP and other messages

- Support 802.1X port authentication, and perform identity verification and access control on access users

Technical Specifications

Software	
Exchange function	Support port configuration, such as port speed, duplex mode, flow control, jumbo frames, etc. Support 802.1Q VLAN, VLAN division based on port/MAC/subnet/protocol, GVRP, port isolation Support port speed limit, storm suppression, storm detection, static port
Redundant technology	Support MW-RingV2 private ring network technology Support EAPS Support ERPS Support STP/RSTP/MSTP
Multicast technology	Support IGMP Snooping Support GMRP
Safety management	Support loopback detection Support HTTP, HTTPS, TELNET, SSH access methods Support ACL, filter L2-L4 layer data Support 802.1X port authentication and MAC address authentication
Management and maintenance	Support QoS service quality, Cos/DSCP/Policy mapping, WRR/SP/SRR queue scheduling algorithm Support SNMPv1/v2c/v3, SNMPv1/v2c Trap, LLDP Support port mirroring, Ping, Tracert Support user rights management, system log, local time setting synchronization and SNTP network time synchronization Support online restart, restore factory settings, system upgrade, configuration file upload/download

Exchange	
Exchange method	Store and forward
Backplane Bandwidth	128Gbps
Cache size	12Mbit
MAC address table	16K

| Interface	
10 Gigabit SFP+ slot	4-way 10GBase-R 10 Gigabit SFP+ slots, supporting 1000Base-X Gigabit SFP
Gigabit SFP slot	16-way 100/1000Base-X Gigabit SFP slots
Gigabit Combo port	8 Gigabit combo photoelectric multiplexing ports, support 10/100/1000Base-T(X) adaptive Gigabit RJ45 electrical ports or 100/1000Base-X SFP slot optional. Electrical ports support full/half duplex, MDI /MDI-X adaptive

☑≡ Technical Specifications

Relay	1-way relay alarm output, using 3-position 5.08mm pitch terminal block with lock
CONSOLE	1 channel CONSOLE port, RS232 signal RJ45 port, used for equipment debugging and command line configuration
Indicator light	Power indicator, running indicator, alarm indicator, interface speed and connection/activity status indicators
Power	
Power input	AC85~264V or DC110~370V
Full load power	＜40W
Connection method	5-position 5.08mm pitch terminal block with lock
Power protection	Overcurrent protection
Mechanical	
Physical size	482.6×44×315(mm) (including mounting ears)
Installation method	Standard 19-inch 1U rack mount
Case protection	IP40
Weight	About 4kg
Working environment	
Operating temperature	-40℃~+70℃
Storage temperature	-40℃~+85℃
Relative humidity	5%~95% (no condensation)
Industry standard	
EMC	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

Installation Size

Unit: mm
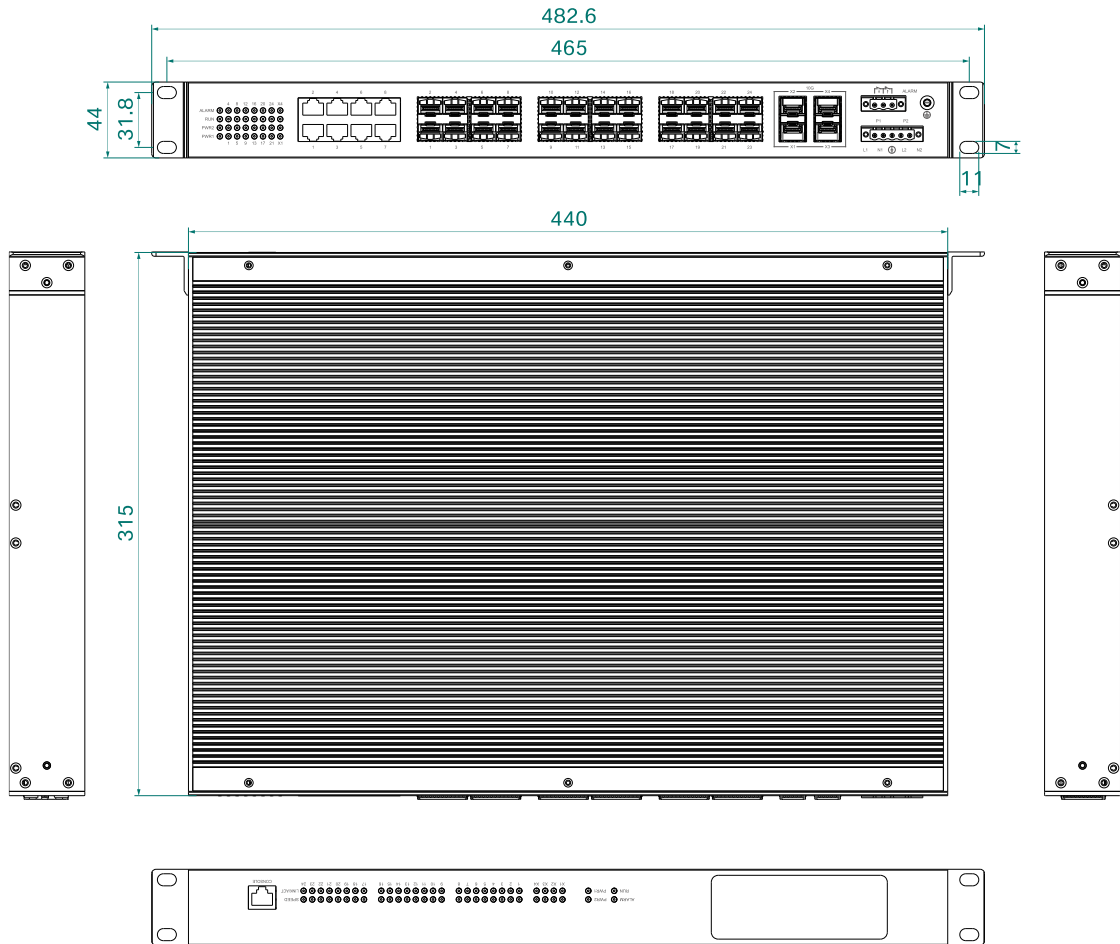
Ordering Information

Model	10 Gigabit SFP+ slots	Gigabit SFP slots	Gigabit Combo ports	Power
MISCOM7028GX-4XGF-16GF-8GC-AD220	4	16	8	Single AD220V
MISCOM7028GX-4XGF-16GF-8GC-2AD220	4	16	8	Dual AD220V