

MISCOM7028GX-4XGF-16GF-8GC

28 Full-fiber Ports 10G Rack-mount Layer-2 Industrial Ethernet Switch



- Support 4 10G SFP + ports, 16 Gigabit SFP ports and 8 Gigabit Combo multiplexing ports, providing users with flexible networking methods
- Support ring network redundancy protocols such as MW-Ring, ERPSv1 / v2, STP / RSTP to improve network reliability
- Fast Ring Redundancy (MW-Ring) <20ms enhances the reliability of system communication
- Support AC85~264V / DC110~370V power supply
- High strength aluminium alloy shell, IP40 protection level, fanless heat dissipation, can reliably work in harsh industrial environments of -40 °C~+70 °C



Product Introduction

MISCOM7028GX-4XGF-16GF-8GC layer-2 network managed 10G industrial Ethernet switch support 4 10G SFP + ports, 16 Gigabit SFP ports and 8 Gigabit Combo multiplexing 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. Standard 19-inch 1U rack type installation, 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 MISCOM7028GX-4XGF-16GF-8GC switch follows the main communication standards in the industrial

field, and meets the technical problems such as real-time communication, network security and so on. The product provides various ways of managing switches, such as accessing the switch command line (CLI) through the CONSOLE port or TELNET / SSH protocol, the switch WEB interface through HTTP / HTTPS, and the device MIB through the SNMP protocol. Multiple network protocols and industry standards are provided simultaneously, such as EAPS, ERPS, STP / RSTP / MSTP, VLAN, GVRP, QoS, LACP, IGMP Snooping, GMRP, LLDP, 802.1X, ACL, SNTP, port mirroring, Ping, Tracert, etc. Support configuration file upload and download, mirror file online upgrade and other system management. In terms of structural installation, you can flexibly choose either the rack type or the desktop type. The products are widely used in comprehensive energy, smart city, rail transit, intelligent transportation, smart factory, industrial automation and other fields.



Product Features

- Support the storm suppression of broadcast, multicast and unknown single broadcast text, 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 sharing
- Support port mirror, can collect port inlet, outlet, and bidirectional data for network detection and fault management
- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interface easy to divide multiple broadcast domain, enhance the security of the network
- Support for 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 IGMP Snooping, GMRP and other 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 loop back detection to prevent the network from ring and causing a network storm
- 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, filter TCP / UDP messages based on source / destination IP and MAC address
- Support 802.1X port authentication, authentication and access control for access users

 Technical specifications

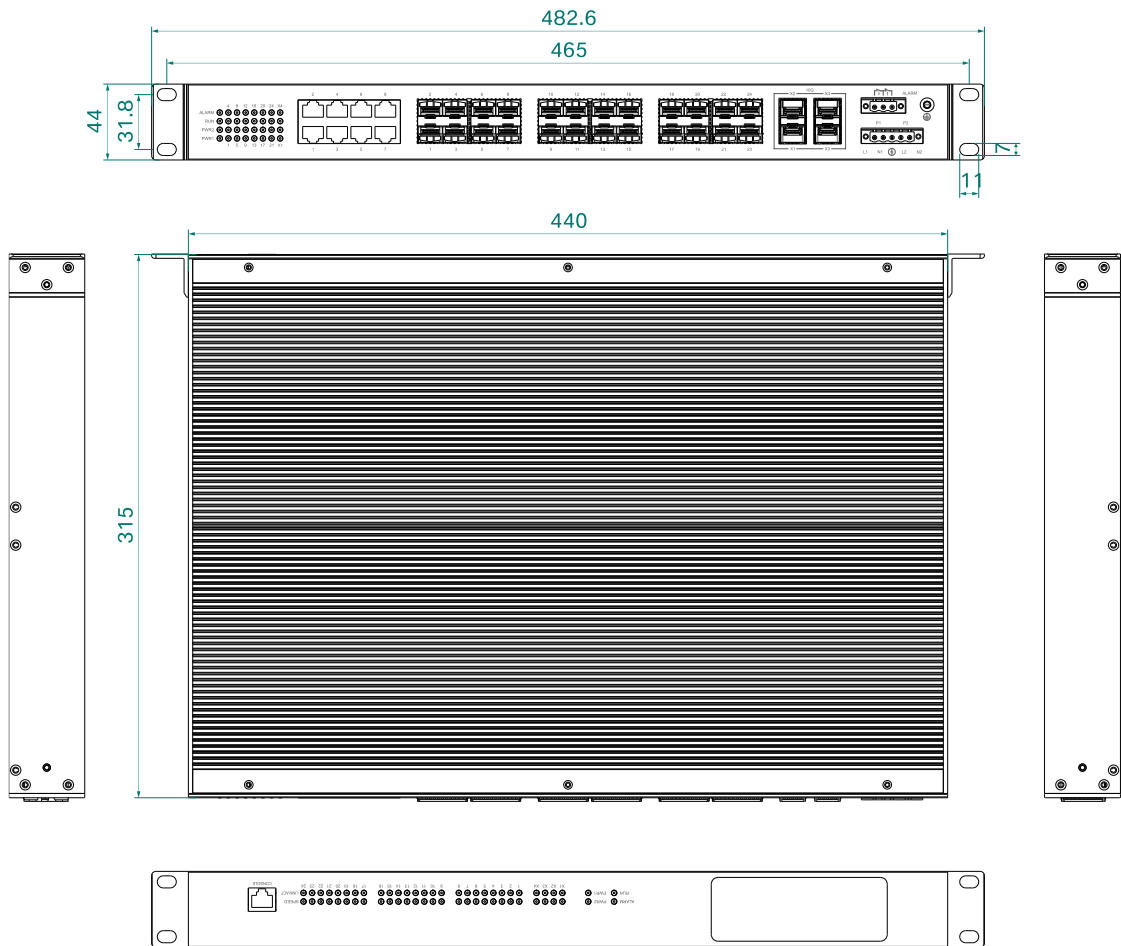
Software function	
Switch function	<p>Support port configuration, such as port rate, duplex mode, flow control, giant frame, etc</p> <p>Support 802.1Q VLAN, port / MAC / subnet / protocol based VLAN division, GVRP, port isolation</p> <p>Support port speed limit, storm suppression, storm detection, static port convergence, dynamic convergence LACP</p> <p>Support for MAC address aging, static MAC address binding and filtering, and MAC address learning restrictions</p>
Redundant technique	<p>Support for MW-RingV2 private ring network technology</p> <p>support EAPS</p> <p>support ERPS</p> <p>Support for STP / RSTP / MSTP</p>
Group broadcast	<p>Support for IGMP Snooping</p> <p>support GMRP</p>
Security management	<p>Support ring circuit detection</p> <p>Support for HTTP, HTTPS, TELNET, and SSH access mode</p> <p>Support ACL and filtering data on the L2-L4 layer</p> <p>Support 802.1X port authentication and MAC address authentication</p>
Management and maintenance	<p>Support for QoS quality of service, Cos / DSCP / Policy mapping, and WRR / SP / SRR queue scheduling algorithm</p> <p>Support SNMP v1 / v2c / v3, SNMPv1 / v2c Trap, LLDP</p> <p>Support port mirror, Ping, Tracert</p> <p>Support user rights management, system logs, local time setting synchronization, and SNTP network time synchronization</p> <p>Support online restart, restore factory Settings, system upgrade, configuration file upload / download</p> <p>Support for unified upper-level computer software management</p>
Switch capability	
Switch mode	Store and forward
Backboard bandwidth	128Gbps
Cache size	12Mbit
MAC Table Size	16K
Interface	

Technical specifications

10G fiber port	4 10GBase-R SFP + ports ,also support 1000Base-X Gigabit SFP
1000M fiber port	16 1000Base-X Gigabit SFP ports
1000M COMBO port	8 Gigabit Combo multiplexing ports, support 10 / 100 / 1000Base-T (X) adaptive Gigabit RJ 45 port or 1000Base-X Gigabit SFP port optional, the port support full / half duplex, MDI / MDI-X adaptive
Relay	1 relay alarm output, 3-pin 5.08mm terminal block
CONSOLE	1 RJ45 CONSOLE port of RS232 signal for equipment debugging and command line configuration
Indicator lights	Power indicator, operation indicator, alarm indicator, interface rate and connection / active status indicator
Power	
Power Input	AC 85 to 264 V or DC 110 to 370 V
Full load power	<40W
Connection	5-pin 5.08mm terminal block
Power protection	Over current protection
Physical Characteristics	
Dimension	482.6×44×315(mm)(Including hanging ears)
Installation	Standard 19-inch 1U rack-type mount
Shell protection	IP40
Weight	About 4kg
Working Environment	
Operating temperature	-40°C~+70°C
Storage temperature	-40°C~+85°C
Ambient humidity	5%~95% (No condensation)
Industry Standard	
EMC protection	IEC 61000-4-2 (ESD): Level 4 IEC 61000-4-5 (Surge): Level 4 (Network port 6kV lightning protection) IEC 61000-4-4 (EFT): Level 4
Certification	CE,FCC,RoHS

Dimension drawing

Unit:mm



Order information

Model	10G fiber port	1000M fiber port	1000M Combo port	Power range
MISCOM7028GX-4XGF-16GF-8GC-AD220	4	16	8	AC85~264V / DC110~370V

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