

MISCOM7028GX-4XGF-16GF-8GC

28-Port 10G Rack Mount Layer 2 Industrial Ethernet Switch



- 4*10G SFP+ ports, 16*1G SFP ports and 8*1G combo ports
- Support ring network redundancy protocols such as MW-Ring, ERPSv1/v2, STP/RSTP
- Fast Ring Redundancy (MW-Ring) <20ms enhances the reliability of system communication
- Support AC85~264V/DC110~370V power supply
- High strength aluminum alloy shell, IP40 protection, fanless heat dissipation, can reliably work in harsh industrial environments of -40 °C~+70 °C



Product Description

MISCOM7028GX-4XGF-16GF-8GC layer 2 managed 10G industrial Ethernet switch supports 4*10G SFP+ ports, 16*1G SFP ports and 8*1G combo ports. It adopts a storage and forwarding mechanism and has strong bandwidth processing capabilities, automatically troubleshooting data packet errors, reducing transmission failures. The product uses industrial grade components, combined with high standard system design and production control. It has high strength durable aluminum alloy shell, and fanless design for efficient heat dissipation, supports -40°C ~ + 70°C wide temperature work, which 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 requirements 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, 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 installation, you can flexibly choose either the rack mount type or the desktop mount 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 unicast 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 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	
Switching	<p>Support port configuration, such as port rate, duplex mode, flow control, jumbo 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 MAC address aging, static MAC address binding and filtering, and MAC address learning restrictions</p>
Redundancy	<p>Support MW-RingV2 private ring network technology</p> <p>support EAPS</p> <p>support ERPS</p> <p>Support STP / RSTP / MSTP</p>
Broadcast	<p>Support IGMP Snooping</p> <p>support GMRP</p>
Security Management	<p>Support loopback detection</p> <p>Support 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 QoS, 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 unified upper-level computer software management</p>
Switching	
Processing Type	Store-and-forward
Backplane Bandwidth	128Gbps
Buffer Size	12Mbit
MAC Table Size	16K
Interface	
10G Fiber Port	4*10GBase-R SFP + ports, support 1000Base-X SFP

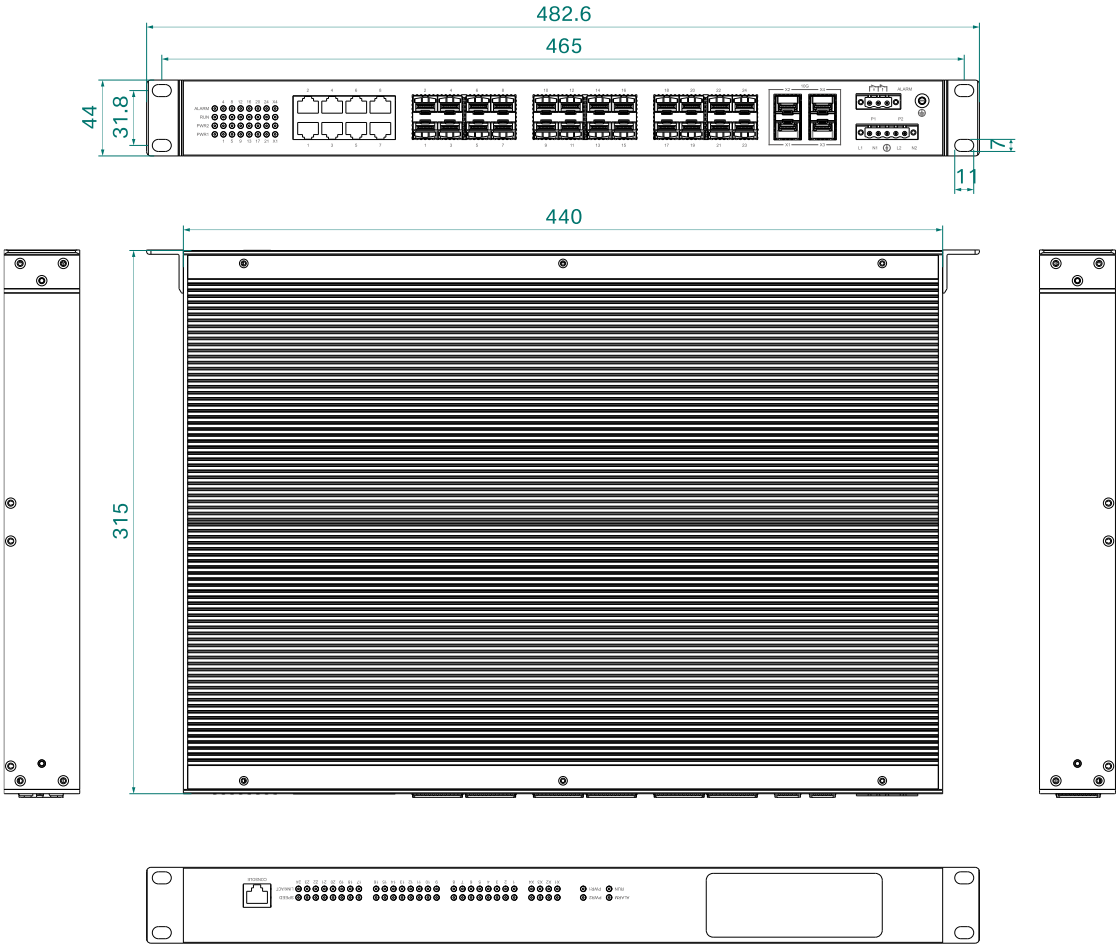
Technical Specifications

1G Fiber Port	16*1000Base-X SFP ports
1G COMBO Port	8*1G combo ports, support 10/100/1000Base-T (X) auto-sensing RJ 45 port or 1000Base-X Gigabit SFP port, the port support full / half duplex, auto MDI/MDI-X connection
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
Status LED	Power indicator, operation indicator, alarm indicator, interface rate and connection / active status indicator
Power Supply	
Power Input	AC 85~264V or DC 110~370V
Power Consumption	<40W
Connection	5-pin 5.08mm terminal block
Protection	Over current protection
Physical Characteristics	
Dimension	482.6×44×315 mm (Including 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℃
Ambient Humidity	5%~95% (No condensation)
Industry Standard	
EMC	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



Installations

Unit: mm



Ordering Information

Standard Model	10G Fiber Port	1G Fiber Port	1G Combo Port	Input Voltage
MISCOM7028GX-4XGF-16GF-8GC-AD220	4	16	8	AC85~264V/ DC110~370V

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