

MISCOM8028GX-4XGF-8GT-16F

28 Ports 10G Rack-mount Layer-3 Industrial Ethernet Switch



- Support 4 10G SFP + ports, 8 gigabit copper ports and 16 100M fiber ports, providing users with flexible networking methods
- 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 message forwarding
- Support SNMP v1 / v2c / v3 and SNMPv1 / v2c Trap, SNMP Trap support matching with state grid network security equipment
- Support for user rights management
- Support AC85~264V / DC110~370V redundant power input
- High strength aluminium alloy shell, IP40 protection level, fanless heat dissipation, can reliably work in harsh industrial environments of -40 °C ~ +75 °C



Product Introduction

MISCOM8028GX-4XGF-8GT-16F layer-3 10G industrial Ethernet switch support 4 10G SFP + ports, 8 gigabit copper ports and 16 100M fiber 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 ~ + 75 °C wide temperature work, high standard industrial protection design, can adapt to a variety of harsh working environment, stable communication performance.

The MISCOM8028GX-4XGF-8GT-16F layer-3 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 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, 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 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 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 loop back detection to prevent the network from ring and causing a network storm
- 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 dual power redundancy drop relay alarm and upper computer alarm, support port drop line upper computer alarm

Technical specifications

| Software function | |
|---------------------|--|
| Switch function | Support port configuration, such as port rate, duplex mode, flow control, giant frame, etc Support 802.1Q VLAN, port / MAC / subnet / protocol based VLAN division, GVRP, port isolation Support port speed limit, storm suppression, storm detection, static port convergence, dynamic convergence LACP Support for MAC address aging, static MAC address binding and filtering, and MAC address learning restrictions |
| Redundant technique | Support for MW-RingV2 private ring network technology support EAPS support ERPS Support for STP / RSTP / MSTP |
| Group broadcast | Support for IGMPv1 / v2 / v3, and IGMP Snooping Support for the static multicast GMRP Support for PIM-DM, PIM-SM |
| Routing technology | Support static routing Support for RIPv 1 / v2, OSPF dynamic routing support VRRP |
| Security management | Support ring circuit detection Support for 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 |

☑☑☑ Technical specifications

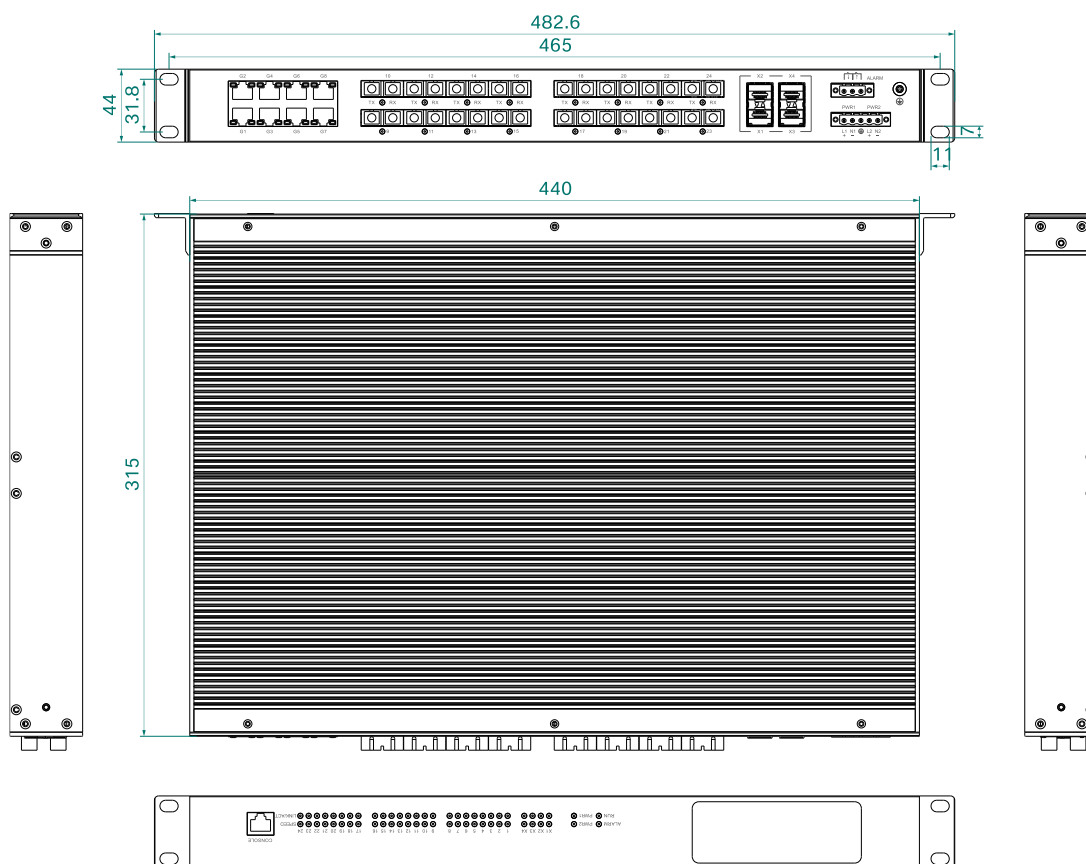
| | |
|---------------------------------|---|
| Management and maintenance | <p>Support for QoS quality of service, Cos / DSCP / Policy mapping, and WRR / SP / SRR queue scheduling algorithm</p> <p>Support for DHCP Server / Security / Relay / Snooping</p> <p>Support SNMP v1 / v2c / v3, SNMPv1 / v2c Trap, 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 | 128G |
| Cache size | 12Mbit |
| MAC Table Size | 16K |
| Interface | |
| 10G fiber port | 4 10GBase-R SFP+ slot ,also support 1000Base-X Gigabit SFP |
| 1000M copper port | 8 10 / 100 / 1000Base-T (X) adaptive Gigabit RJ45 port for full / half duplex, MDI / MDI-X adaptation |
| 100M fiber port | 16 100Base-FX fiber port, support SC / FC / ST interface optional, multi-mode / single mode optional |
| 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 | AC85~264V / DC110~370V Dual power redundancy |
| Full load power | <29W@AC220V |
| Connection | 5-pin 5.08mm terminal block |
| Power protection | Over current protection |
| Physical Characteristics | |

 Technical specifications

| | |
|----------------------------|--|
| Dimension | 482.6×44×315(mm)(Including hanging ears) |
| Installation | Standard 19-inch 1U rack-type mount |
| Shell protection | IP40 |
| Weight | About 4.5kg |
| Working Environment | |
| Operating temperature | -40℃~+75℃ |
| Storage temperature | -40℃~+85℃ |
| Ambient humidity | 5%~95% (No condensation) |
| Industry Standard | |
| EMC protection | IEC 61000-4-2(ESD):Level 3(Contact discharge±6kV,air discharge±8kV) IEC 61000-4-5(Surge):Level 4 (Power:common mode±4kV, differential mode±2kV network port:common mode±6kV,differential mode±2kV) IEC 61000-4-4(EFT):Level 4(Power:±4kV,Copper port:±2kV) |
| Certification | CE,FCC,RoHS |

Dimension drawing

Unit:mm



Ordering Information

| Model | 10G fiber port | 1000M fiber port | 100M fiber port | Power range |
|---------------------------------------|----------------|------------------|-----------------|-----------------------------|
| MISCOM8028GX-4XGF-8GT-16F(M/S)-2AD220 | 4 | 8 | 16 | Dual AC85~264V / DC110~370V |

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