**MISCOM8036GX-4XGF-24GF-8GT**

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

* Support 4 10G SFP + ports, 24 Gigabit SFP ports and 8 Gigabit RJ45 ports, providing users with flexible networking methods



* Support ERPSv1 / v2, STP / RTSP / MSTP to improve network reliability
* Support IPv4 / IPv6 static routing, RIPv 1 / v2, OSPF dynamic routing protocol, realize routing and message forwarding
* Support AC85~264V / DC110~370V single or dual redundant power input
* High strength aluminium alloy shell, IP40 protection level, fanless heat dissipation, can reliably work in harsh industrial environments of -40 ℃~+75 ℃



Product Introduction

MISCOM8036GX-4XGF-24GF-8GT layer-3 10G industrial Ethernet switch support 4 10G SFP + ports, 24 Gigabit SFP ports, and 8 Gigabit RJ45 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℃ ~ + 75℃ wide temperature work, high standard industrial protection design, can adapt to a variety of harsh working environment, stable communication performance.

The MISCOM8036GX-4XGF-24GF-8GT layer-3 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, such as RIP, OSPF, ERPS, STP / RSTP / MSTP, VLAN, QoS, LACP, IGMP Snooping, LLDP, 802.1X, ACL, RMON, DHCP Server / Snooping / Relay, NTP, port mirroring, DDM, Ping, Traceroute, etc. Support configuration file upload and download, mirror file online upgrade and backup 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, industrial automation and other fields.

Product Features

* Support link static aggregation and dynamic aggregation LACP, which can increase transmission bandwidth, improve link reliability and realize network load sharing
* Support ports statistics to count different bytes or types of data frames sent and received to realize the monitoring of port traffic
* 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 MAC, protocol, IP subnetwork, and can be applied to networks in different environments
* Support IGMP Snooping and multicast filtering, two-layer multicast forwarding or filtering, 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 ERPSv1 / v2 Ethernet multi-ring protection technology, provide multi-ring networking, link backup, achieve fast convergence, improve network stability
* Support STP, RSTP, MSTP generating tree protocol, which can eliminate network loop and improve network reliability
* Support the loop detection to prevent the network ring from causing the network storm
* Support IPv4 and IPv6 static routing configuration, RIPv 1 / v2, OSPF dynamic routing protocol, realize routing and message forwarding
* Support HTTP, HTTPS, TELENT, SSH, CONSOLE port and other login methods
* Support SNMPv1 / v2c / v3, through the MIB network management system can be information query, information modification and troubleshooting, to achieve centralized management
* Support RMON remote network monitoring, make statistics and alarm of various types of data frames, and can be used for remote monitoring and management of network management system
* Support port security, convert dynamic MAC addresses to secure dynamic / static / Sticky MAC, prevent illegal user access, and enhance device security
* Support 802.1X port authentication, authentication and access control for access users
* Support AAA safe network management, and conduct authentication, authorization and billing of users through RADIUS and TACACS +, to prevent illegal users from logging in
* Support ACL access control list, can customize a variety of frame type filtering rules, the specified message filtering or rate limit
* Support IPv4, IPv6 source defense attack, port, source IP, source MAC, VLAN binding, prevent source IP address spoofing
* Support ARP protection to prevent network interruption or information leakage caused by ARP flooding / deception attacks
* Support QoS service quality, so that voice, video and important data in the network equipment priority transmission, to solve the network congestion
* Support port mirroring to collect port sent and received data for network detection and fault management
* Support DDM digital diagnosis and monitoring, and can detect the temperature, voltage, transmitting optical power, receiving sensitivity of the DDM optical module
* Support Ping IPv4 / v6, Traceroute IPv4 / v6 to detect network connectivity and locate fault points
* Support DHCP server, centralized dynamic management and configuration of user IP addresses
* Support DHCP Snooping, ensure that DHCP clients obtain IP addresses from a legitimate DHCP server to prevent DHCP attacks
* Support DHCP relay to assist DHCP server to dynamically assign network parameters to DHCP clients
* Support system logging for user operation, system security, system failure and other information, and support remote monitoring of Syslog server

| Technical specificationsC:\Users\Administrator\Desktop\未命名 -2.emf |
| --- |
| Software function |
| Switch function | Support for 802.1Q VLAN, VLAN based on MAC / IP subnetwork / protocol, VLAN translation, and PVLANSupport port aggregation, static aggregation, dynamic aggregation LACPSupport MAC address aging and learning restrictions, static unicast or multicast MAC address bindingSupport ports configuration, such as port rate, duplex mode, flow control, maximum frame length, etcSupport port statistics |
| Redundant technique  | Support for ERPSv1 / v2Support for STP / RSTP / MSTP |
| Group broadcast | Support for IGMP SnoopingSupport multicast filtering |
| Routing technology | Support IPv4 / IPv6 static routingSupport for RIP v 1 / v2, OSPF dynamic routing |
| Security management  | Support ports security and loopbacks detectionSupport for HTTP, HTTPS, TELNET, and SSH access controlSupport 802.1 port authentication, AAA authentication, RADIUS, TACACS + protocolSupport for source IPv4 / IPv6 protection and ARP protection |
| Management and maintenance | Support for DHCPv4 / v6 Client, DHCPv4 Server / Snooping / RelaySupport SNMPv1 / v2c / v3, SNMP Trap, RMON, LLDPSupport for port mirroring, DDM, Ping IPv4 / IPv6, and Traceroute IPv4 / IPv6Support user rights management, log, NTP client, daylight saving timeSupport profile upload / download / activation / deletion, mirror double backup, restart, and restore factory settings |
| Switch capability |
| Switch mode  | Store and forward  |
| Backboard bandwidth | 180G |
| Cache size | 32Mbit |
| MAC Table Size | 32K |
| Interface |
| 10G fiber port | 4 10GBase-R SFP+ ports |
| 1000M fiber port | 24 1000Base-X Gigabit SFP ports |
| 1000M copper port | 8 10 / 100 / 1000Base-T (X) adaptive Gigabit RJ45 port, 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, port indicator |
| Power |
| Power Input | AD220V(AC85~264V/DC110~370V) |
| Full load power | ＜50W@AD220V  |
| 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 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 4(Contact discharge±8kV,air discharge±15kV)IEC 61000-4-5(Surge):Level 4(Power:common mode±4kV，differential mode±2kVnetwork 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

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| --- | --- | --- | --- | --- |
| **Model** | **10G fiber port** | **1000M fiber port** | **1000M copper port** | **Power range** |
| MISCOM8036GX-4XGF-24GF-8GT-2AD220 | 4 | 24 | 8 | Dual AC85~264V / DC110~370V |

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