

MISCOM8036GX-4XGF-24GF-8GT

36-Port 10G Rack Mount Layer 3 Industrial Ethernet Switch



- 4*10G SFP + ports, 24*1G SFP ports and 8*1G RJ45 ports
- Support ERPSv1/v2, STP/RTSP/MSTP to improve network reliability
- Support IPv4 / IPv6 static routing, RIPv1 / v2, OSPF dynamic routing protocol, realize routing and forwarding
- Support AC85~264V/DC110~370V single or dual redundant power input, dual power redundancy
- High strength aluminum alloy shell, IP40 protection, fanless design for heat dissipation, can reliably work in harsh industrial environments of -40 °C~+75 °C



Product Description

MISCOM8036GX-4XGF-24GF-8GT layer 3 10G industrial Ethernet switch supports 4*10G SFP+ ports, 24*1G SFP ports, and 8*1G RJ45 ports. It adopts the 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. It has 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 MISCOM8036GX-4XGF-24GF-8GT layer 3 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, 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. 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, industrial automation and other fields.



Features and Benefits

- 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 MAC-, protocol-, and IP subnetwork-based VLAN
- Support IGMP Snooping and multicast filtering, layer 2 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 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, RIPv1/v2, OSPF dynamic routing protocol, realize routing and message forwarding
- Support HTTP, HTTPS, TELNET, 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
- Supports 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 Specifications

Software	
Switching	<p>Support 802.1Q VLAN, VLAN/IP subnetwork/protocol- based VLAN, VLAN translation, and PVLAN</p> <p>Support port aggregation, static aggregation, dynamic aggregation LACP</p> <p>Support MAC address aging and learning restrictions, static unicast or multicast MAC address binding</p> <p>Support ports configuration, such as port rate, duplex mode, flow control, maximum frame length, etc</p> <p>Support port statistics</p>
Redundancy	<p>Support ERPSv1/v2</p> <p>Support STP/RSTP/MSTP</p>
Broadcast	<p>Support IGMP snooping</p> <p>Support multicast filtering</p>
Routing	<p>Support IPv4/IPv6 static routing</p> <p>Support for RIPv1/v2, OSPF dynamic routing</p>
Security Management	<p>Support ports security and loopbacks detection</p> <p>Support HTTP, HTTPS, TELNET, and SSH access control</p> <p>Support 802.1 port authentication, AAA authentication, RADIUS, TACACS + protocol</p> <p>Support for source IPv4/IPv6 protection and ARP protection</p>
Management and Maintenance	<p>Support DHCPv4/v6 Client, DHCPv4 Server/Snooping / Relay</p> <p>Support SNMPv1/v2c/v3, SNMP Trap, RMON, LLDP</p> <p>Support port mirroring, DDM, Ping IPv4/IPv6, and Traceroute IPv4 / IPv6</p> <p>Support user rights management, log, NTP client, daylight saving time</p> <p>Support profile upload/download/activation / deletion, mirror double backup, restart, and restore factory settings</p>
Switching	

Technical Specifications

Processing Type	Store-and-forward
Backplane Bandwidth	180G
Buffer Size	32Mbit
MAC Table Size	32K
Interface	
10G Fiber Port	4*10GBase-R SFP+ ports
1G Fiber Port	24*1000Base-X SFP ports
1G Copper Port	8*10/100/1000Base-T (X) auto-sensing RJ45 ports, 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, port indicator
Power Supply	
Power Input	AD220V(AC85~264V/DC110~370V)
Power Consumption	<50W@AD220V (full load)
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-type mount
IP Code	IP40
Weight	About 4.5kg
Working Environment	
Operating Temp	-40℃~+75℃

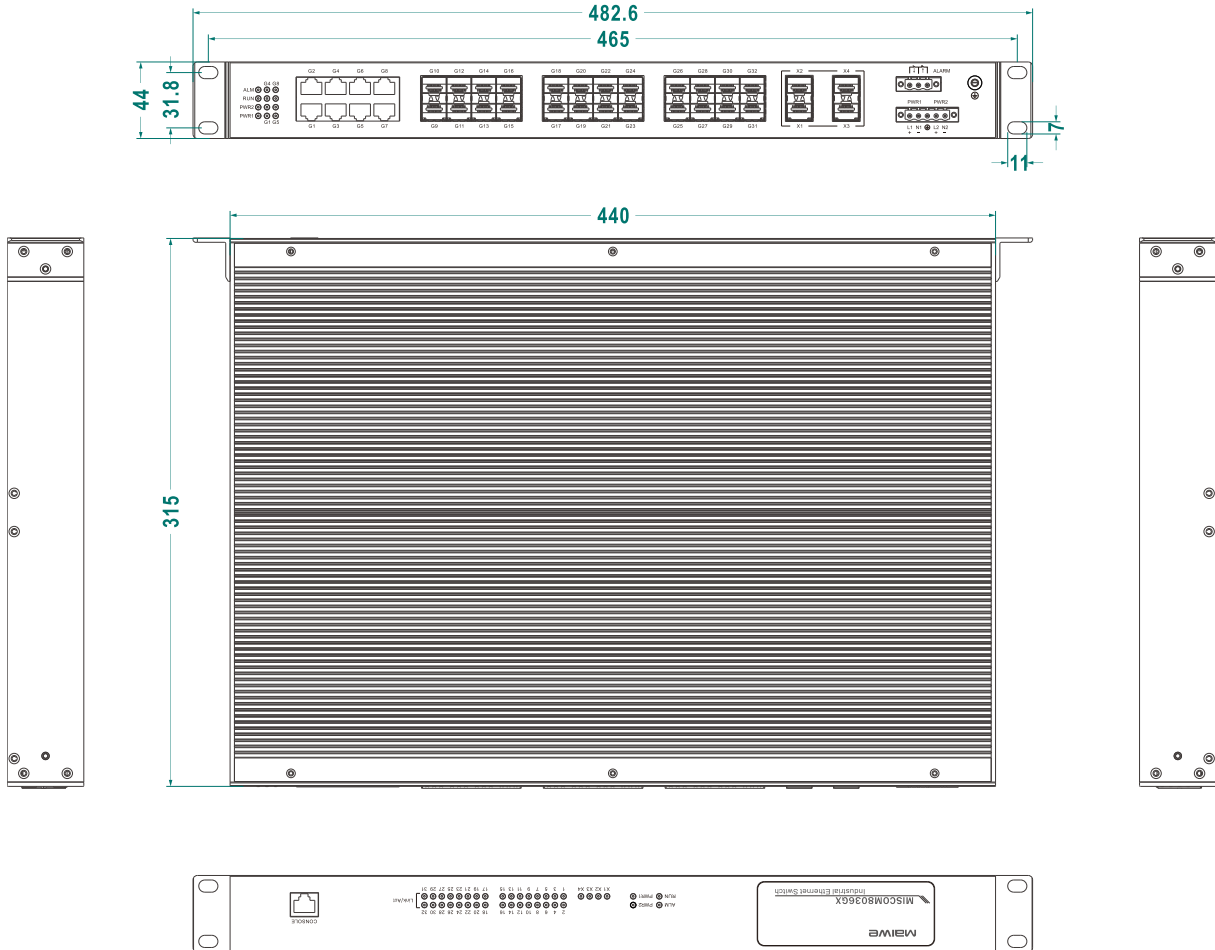
 Technical Specifications

Storage Temp	-40°C~+85°C
Ambient Humidity	5%~95% (No condensation)
Industry Standard	
EMC	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±2kV network port: common mode±6kV,differential mode±2kV) IEC 61000-4-4(EFT): Level 4(Power: ±4kV, Copper port: ±2kV)



Installations

Unit: mm



Ordering Information

Standard Model	10G Fiber Port	1G Fiber Port	1G Copper Port	Input Voltage
MISCOM8036GX-4XGF-24GF-8GT-2AD220	4	24	8	Dual AC85~264V / DC110~370V

Contact Us

Wuhan Maiwe Communication Co., Ltd

Address: No.52 Liufang Avenue, East lake High-tech Development Zone, Wuhan, China.

Tel: 027-87170217

Mail: enquiry@maiwe.com

Official site: www.maiwe.com

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