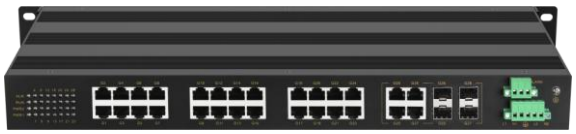
MISCOM7028G-4GC-24GT

28-Port Layer 2 Full Gigabit Managed Rack Mount Industrial Ethernet Switch



- 4×Gigabit combo ports, 24×10/100/1000Base-T(X) ports (RJ45 connector)
- 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 single or dual AC85~264V/DC110~370V power supply optional
- With IP40 high-strength aluminum alloy shell and fanless design, the device can reliably operate in the temperature ranging from -40°C to +70°C

Product Description

MISCOM7028G-4GC-24GT series layer 2 Gigabit rack mount industrial Ethernet switch supports 4×Gigabit combo ports and 24×10/100/1000Base-T(X) ports. Adopting a storage and forwarding mechanism, it has powerful bandwidth processing capabilities, automatically troubleshooting data packet errors, reducing transmission failures, and easily supporting Gigabit 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℃ to +70℃ wide operating temperature, high standard industrial protection design, can adapt to a variety of harsh working environment. MISCOM7028G-4GC-24GT can be managed through WEB management or SNMP network management, also supports MW-Ring, ERPS, STP/RSTP, VLAN, LLDP, RMON, ACL, QoS, 802.1X, IGMP snooping, rate control, port convergence, port mirroring, static MAC address publication, network diagnosis, loop detection, Email log, relay alarm and firmware online upgrade. The products can be widely used in comprehensive energy, smart city, intelligent transportation, smart factory, industrial automation and other industrial fields.

Features and Benefits

- Support RSTP generation tree protocol, compatible with STP protocol, to eliminate network loop and improve network reliability
- Support rate limiting for broadcast, multicast, and unknown unicast packets, as well as broadcast and multicast packet storm detection to prevent network storms.
- Support both static link aggregation and dynamic Link Aggregation Control Protocol (LACP) for increased transmission bandwidth and link reliability.
- Support port mirroring, allowing the collection of data from ingress and egress ports for network diagnostics and fault management.
- Support 802.1Q VLANs, providing Access, Trunk, and Hybrid interfaces for easy segmentation of multiple broadcast domains, enhancing network security.
- Support IGMP snooping, which builds a layer 2 multicast forwarding table, reducing multicast data broadcast in the network, and conserving network resources.
- Support Link Layer Discovery Protocol (LLDP), enabling the acquisition of LLDP neighbor device information for link status monitoring, facilitating topology management and fault localization.
- Support Ethernet Ring Protection Switching (ERPS), providing multi-ring networking, link backup, fast convergence, and enhanced network stability.
- Support the Rapid Spanning Tree Protocol (RSTP), compatible with STP, to eliminate network loops and improve network reliability.
- Support centralized management of SNMPv1/v2c/v3 and SNMPv1/v2c/v3 TRAP information, and support the State Grid standard TRAP
- 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 Quality of Service (QoS) to prioritize voice, video, and critical data for transmission, addressing network congestion
- Support ACL access control list, filtering of TCP/UDP/ICMP/IGMP messages based on source/destination IP and MAC address
- Support 802.1X port authentication for user identity verification, providing both local and RADIUS-based login authentication
- Support loop back detection to prevent the network from ring and causing the network storm

Specification

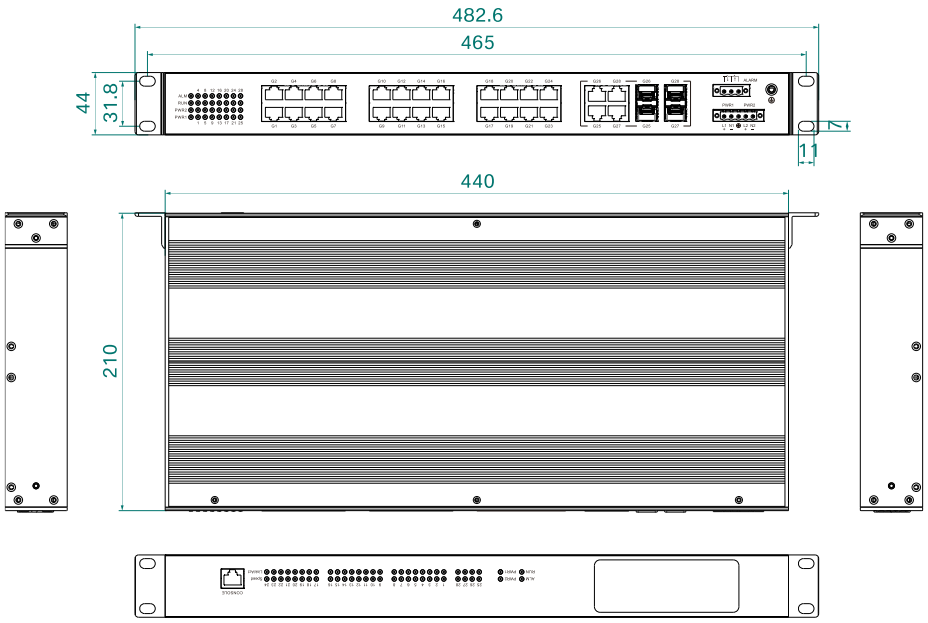
Software	
Switching	Support port configuration, port speed limit, storm suppression, storm detection, port trunk, LACP, port statistics Support 802.1Q VLAN, port isolation Support MAC address aging, static unicast MAC address binding
Redundancy	Support MW-Ring/MW-RingV2 private ring network technology Support ERPSv1/v2 Support RSTP and compatible with STP
Multicast	Support IGMP snooping Support static multicast MAC address binding
Security Management	Support WEB, TELNET, and SSH access control Support ACL access control list, 802.1X port authentication Support ring detection, relay alarm, email log
Management and Maintenance	Support QoS, SNMP v1/v2c/v3, SNMPv1/v2c/v3 Trap, RMON, LLDP Support port mirroring and ping Support user rights management, system log, SNTP client, daylight saving time Support online restart, factory reset, system upgrade, configuration file upload/download Support unified master computer software management
Switching	
Switch Capability	Store-and-Forward
Backplane Bandwidth	56Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	
1G Combo Port	4×Gigabit combo ports, support 10/100/1000Base-T (X) auto-sensing RJ45 port or 1000Base-X Gigabit SFP port optional, 10/100/1000Base-T (X) port supports full/half duplex and auto MDI/MDI-X
1G Copper Port	24×10/100/1000Base-T (X) auto-sensing RJ45 ports, support full/half duplex and auto MDI/MDI-X
Relay	1 relay alarm output, 5.08 mm pitch 3-pin terminal block
CONSOLE	1 console port with RS232 signal on a RJ45 connector, used for device debugging
Status LED	Power LED, operation LED, alarm LED, port rate and connection/activity LED
Power	

Specification

Power Input	Single or dual AC85~264V/DC110~370V power supply optional
Full load power	＜24W@AC220V
Connection	5.08mm pitch 5-pin terminal block
Physical Characteristics	
Dimensions	482.6×44×210 mm (including mounting clip)
Installations	Standard 19-inch 1U rack-mounting
IP40 Code	IP40
Weight	About 3kg
Working Environment	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 4 IEC 61000-4-5 (Surge): Level 4 ※Ethernet port supports 6kV lighting protection IEC 61000-4-4 (EFT): Level 4
Certification	CE, FCC, RoHS

Dimensions

Unit: mm



Ordering Information

Standard Model	1G Combo Port	1G Copper Port	Input Voltage
MISCOM7028G-4GC-24GT-AD220	4	24	Single AC85~264V/DC110~370V power supply
MISCOM7028G-4GC-24GT-2AD220	4	24	Dual AC85~264V/DC110~370V power supply

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