

MISCOM7028GP-4GF-24GTPoE

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



- Support 4 Gigabit SFP ports and 24 Gigabit PoE ports
- Comply with IEEE802.3at standard, compatible with IEEE802.3af, single port PoE maximum output power 30W, complete machine PoE maximum output power 370W
- Support ring network redundancy protocols such as MW-Ringv1/v2, ERPS, STP/RSTP, etc.
- Support DDM digital diagnostic monitoring, which can detect DDM optical module temperature, voltage, current, transmit optical power, receive optical power, etc.
- Support single DC48~57V DC power input or AC120~264V/DC130~370V AC/DC power input optional
- High-strength aluminum alloy shell, the equipment can reliably work in harsh industrial environments of - 40°C ~+70°C





Product Description

MISCOM7028GP-4GF-24GTPoE layer 2 full Gigabit managed PoE rack-mounted industrial Ethernet switch supports 4 Gigabit SFP slots and 24 Gigabit PoE ports. PoE complies with IEEE802.3af/at standard, it provides PoE power supply to standard PD powered devices through network cables without affecting the normal transmission of network data, saving power wiring costs. This series of products adopts a store-and-forward mechanism, has powerful bandwidth processing capabilities, automatically detects packet errors, reduces transmission failures, and easily supports Gigabit networking to ensure stable, reliable, and efficient data transmission. The product selects industrial-grade components and cooperates with high standard system design and production control. It is installed in a standard 19-inch 1U rack and has a high strength aluminum alloy shell, which is sturdy and durable. The DC model has no fan shell for heat dissipation, and the AC model has a fan for heat dissipation. $-40^{\circ}\text{C}\sim+70^{\circ}\text{C}$ wide operating temperature, high standard industrial protection design, able to adapt to various harsh working environments, and stable communication performance

MISCOM7028GP-4GF-24GTPoE switch supports WEB network management functions and multiple network protocols, such as PoE, MW-Ringv1/v2, ERPS, STP/RSTP, VLAN, LACP, LLDP, SNMPv1/v2c/v3, RMON, QoS, 802.1X, IGMP Snooping, ACL, WEB/TELNET/SSH access control, static aggregation, port mirroring, static MAC address binding, network diagnosis, loopback detection, email log, alarm, SNTP, system log and system online upgrade, etc., can improve the network performance, reliability and security to meet the needs of various complex networks. The products have passed strict functional, high and low temperature, safety and EMC tests to meet the application requirements of complex networks and harsh industrial environments.



Features and Benefits

- Support rate limiting of broadcast, unknown multicast and unknown unicast packets, broadcast and multicast packet storm detection, and prevents network storms
- Support static link aggregation and LACP dynamic aggregation, which can increase transmission bandwidth and improve link reliability.
- Support port mirroring, which can collect port inlet and outlet data for network detection and fault management.
- Support 802.1Q VLAN and provides Access, Trunk, and Hybrid interfaces to easily divide multiple broadcast domains and enhance network security.

- Support IGMP Snooping and establish a Layer 2 multicast forwarding table to reduce the broadcast of multicast data in the network and save network resources.
- Support LLDP link layer discovery protocol, obtains LLDP neighbor device information, and monitors link status to facilitate topology management and fault location.
- Support ERPS Ethernet multi-ring protection technology, provide multi-ring networking, perform link backup, achieve rapid convergence, and improve network stability
- Support RSTP spanning tree protocol and is compatible with STP protocol, which can eliminate network loops and improve network reliability.
- Support WEB control, HTTP, HTTPS protocol access control, login IP address restriction λ Support SNMPv1/v2c/v3 centralized management and SNMPv1/v2c/v3 TRAP information, supports national network standard TRAP and private TRAP
- Support RMON remote network monitoring, collect statistics and alarms on various types of data frames, and can be used for remote monitoring and management of network management systems
- Support QoS service quality, allowing voice, video and important data to be transmitted preferentially in network equipment to solve network congestion
- Support ACL access control list, you can customize multiple frame type filtering rules to filter or rate limit specified packets
- Support 802.1X port authentication, authenticate access users, and provide local and RADIUS login authentication
- Support alarm functions, including alarms such as system power outage, network storm, port disconnection, etc.
- Support loopback detection to prevent network loops from causing network storms
- Support PoE Ethernet power supply, you can customize the interface power supply priority, and supply power to standard PD devices through network cables, saving power wiring costs
- Support system log information recording, downloading and classification, and can be output to WEB pages, log hosts and consoles for display



Specification

| Software | |
|-----------|--|
| Switching | Support port configuration, port speed limit, storm suppression, storm detection, port aggregation, LACP, port statistics Support 802.1Q VLAN, port isolation Support MAC address aging and static MAC address binding |

Specification

| | |
|----------------------------|---|
| Redundancy | Support MW-Ringv1/v2 private ring network technology Support ERPS Support RSTP, compatible with STP |
| Multicast | Support IGMP Snooping Support static multicast MAC address binding |
| Security | Support WEB, TELNET, SSH access control Support ACL access control list, 802.1X port authentication Support loopback detection, alarms, and email logs |
| Management and Maintenance | Support PoE management, maximum power, priority configuration Support QoS, SNMP v1/v2c/v3, SNMPv1/v2c/v3 TRAP, RMON, LLDP Support port mirroring, optical module DDM, Ping Support user rights management, system logs, local/network time synchronization, and daylight saving time Support online restart, restore factory settings, system upgrade, configuration file upload/download Support MW-NMPv2, MixView, MaxView |
| Switch Capability | |
| Processing Type | Store-and-Forward |
| Backplane Bandwidth | 56Gbps |
| Buffer Size | 4.1Mbit |
| MAC Address Table | 8k |
| Interface | |
| Fiber Port | 4×1000Base-X SFP ports |
| PoE Port | 25×10/100/1000Base-T(X) auto-sensing RJ45 PoE ports, support full/half duplex, auto MDI/ MDI-X; PoE power supply complies with IEEE802.3af/at standard, single port PoE Maximum output power 30W; PoE power supply pins: 1 and 2 are positive, 3 and 6 are negative |
| Relay | 1*relay alarm output, 3-position 5.08mm pitch lock terminal block |
| Console | 1* CONSOLE port, RS232 signal RJ45 port, used for debugging |
| Status LED | Power indicator light, operation indicator light, alarm indicator light, PoE indicator light, interface indicator light |



Specification

| Power Supply | |
|--------------------------|--|
| Input Voltage | DC model: DC48~57V, anti-reverse protection AC model: AC 120~264V or DC130~370V |
| Power Consumption | <21W@DC48V, <32W@AC220V, the maximum PoE output power consumption of the whole machine is 370W |
| Connection | 5-position 7.62mm pitch locking terminal block |
| Overcurrent Protection | Support |
| Physical Characteristics | |
| Dimensions | 482.6×44×210 mm (mounting brackets included) |
| Installations | 19inch 1U Rack mount |
| Weight | 3.3kg (DC model), about 3.7kg (AC model) |
| Working Environment | |
| Operating Temp | -40℃~+70℃ |
| 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 IEC 61000-4-4(EFT): Level 4 |
| Certification | CE, FCC, RoHS |



Ordering Information

| Standard Model | Gigabit Fiber Port | Gigabit Copper Port | Input Voltage |
|--------------------------------|--------------------|---------------------|-----------------------|
| MISCOM7028GP-4GF-24GTPoE-DC48 | 4 | 24 | DC48~57V |
| MISCOM7028GP-4GF-24GTPoE-AD220 | 4 | 24 | AC120~264V/DC130~370V |



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