# CISCOM8028GP-4XGF-24GTPoE

28-port Layer 3 Full Gigabit Managed PoE Rack Mount Industrial Ethernet Switch

- Support 4x10G SFP ports, 24xGigabit PoE ports
- Comply with IEEE802.3at standard, compatible with IEEE802.3af, single port PoE maximum output power 30W, complete machine PoE max. output power 370W
- Support ring network redundancy protocols such as MW-Ringv1/v2, ERPS, STP/RSTP, etc.
- Support DDM digital diagnostic monitoring
- Support static routing, RIP, OSPF dynamic routing protocols
- Work in harsh industrial environments of - 40℃~+70℃

## Product Description

CISCOM8028GP-4XGF-24GTPoE layer 3 full Gigabit managed PoE rack mount industrial Ethernet switch. It supports 4x10G SFP ports and 24xGigabit PoE ports, complying 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. 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 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.

CISCOM8028GP-4XGF-24GTPoE series laye3r switches comply with the main communication standards in the industrial field and meet technical issues such as real-time communication and network security.The product provides multiple ways to manage the switch, such as accessing the switch command line (CLI) through the USB CONSOLE port or TELNET/SSH protocol, accessing the switch WEB interface through HTTP/HTTPS, and accessing the device MIB through the SNMP protocol.It also provides a variety of network protocols and industry standards, such as RIP, OSPF, VRRP, PoE, MW-Ring, EAPS, ERPS, STP/RSTP/MSTP, VLAN, GVRP, QoS, LACP, PIM, IGMP, IGMP Snooping, GMRP, LLDP, 802.1X, ACL, DHCP Server/Snooping/Relay/Security, SNTP Client, Port Mirroring, DDM, Ping, Traceroute, etc., which can improve the performance, reliability and security of the network and 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.

## Product Features

- 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 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 loopback detection to prevent network loops from causing network storms
- Supports MAC address table and aging time limit, static MAC address binding and filtering to ensure the use of legitimate users
- Supports GVRP protocol to achieve dynamic distribution, registration and propagation of VLAN attributes, and maintain dynamic VLAN
- Supports multicast protocols such as PIM, IGMP, GMRP, IGMP Snooping, etc., to reduce the broadcast of multicast data in the network and save network resources
- Supports STP, RSTP, and MSTP spanning tree protocols to eliminate network loops and improve network reliability
- Supports EAPS ring protection protocol and MW-RingV2 private ring network protocol, enhancing the reliability of system communication
- Support VRRP virtual routing redundancy protocol, combine multiple routing devices into a virtual router, and realize redundant backup
- Support static routing configuration, RIPv1/v2, OSPF dynamic routing protocol, realize routing selection and message forwarding
- Supports SNMPv1/v2c/v3, and can query, modify and troubleshoot information through the MIB network management system to achieve centralized management
- 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 DHCP server to centrally manage and configure user IP addresses dynamically
- 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

# Technical Specifications

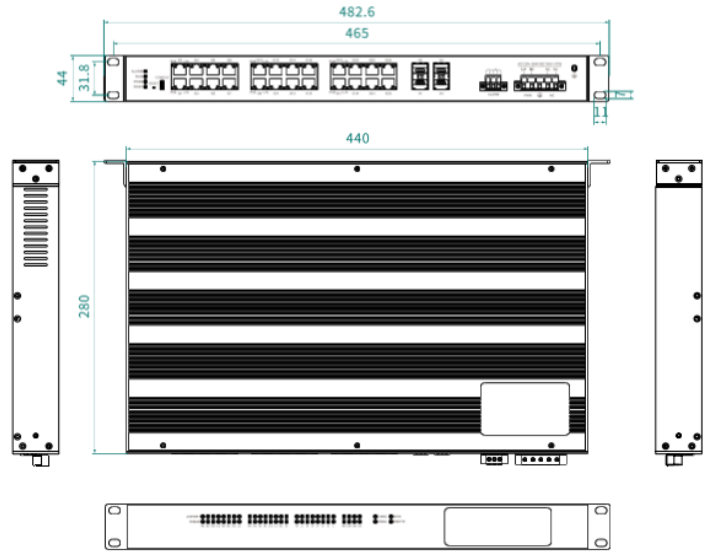
| Software | |
|---|---|
| Switching | Support port configuration, port speed limit, storm suppression, storm detection, port aggregation, LACP, port statistics<br>Support 802.1QVLAN, VLAN based on port/MAC/protocol/subnet, GVRP, port isolation<br>Support MAC address aging and learning limit, static MAC address binding and filtering |
| Redundancy | Support fast ring network (MW-RingV2) private protocol<br>Support EAPS, ERPS<br>Support STP/RSTP/MSTP |
| Multicast | Support IGMP Snooping Support GMRP<br>Support IGMPv1/v2/v3<br>Support PIM-DM, PIM-SM |
| Routing | Support static routing,<br>Support RIP, OSPF dynamic routing,<br>Support VRRP |
| Security | Support HTTP, HTTPS, TELNET, SSH access methods<br>Support ACL access control list, L2-L4 layer data filtering<br>Support 802.1X port authentication and MAC address authentication<br>Support loopback detection |
| Management and Maintenance | Support PoE management, maximum power, priority configuration, etc.<br>Support DHCP Server/Snooping/Relay/Security<br>Support QoS, SNMPv1/v2c/v3, SNMPv1/v2c TRAP, LLDP<br>Support port mirroring, DDM, Ping, Traceroute<br>Support different privilege user management, system log, local time synchronization, SNTP client<br>Support online restart, factory reset, system upgrade, configuration file upload/download<br>Support MW-NMPv2, MixView, MaxView management |
| **Switch Capability** | |
| Processing Type | Store-and-Forward |
| Backplane Bandwidth | 128Gbps |

| | |
|---|---|
| Buffer Size | 12Mbit |
| MAC Address Table | 16k |
| LPM routing entries | 768 |
| **Interface** | |
| 10G fiber Port | 4×10G SFP ports, compatible with 1000Base-X/100Base-FX |
| Gigabit PoE Port | 24×10/100/1000Base-T(X) auto-sensing RJ45 PoE ports, support full/half duplex, auto MDI/ MDI-X;<br>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<br>Operation indicator<br>Alarm indicator<br>PoE indicator<br>Interface indicator |
| **Power Supply** | |
| Input Voltage | DC model: DC48~57V, anti-reverse protection<br>AC model: AC 120~264V or DC130~370V |
| Power Consumption | <22W@DC48V, <33W@AC220V, maximum PoE output power of the whole machine is 370W (when the temperature is above 50℃, the PoE output power of the whole machine is recommended to be less than 270W) |
| Connection | 5-position 7.62mm pitch locking terminal block |
| Overcurrent Protection | Support |
| **Physical Characteristics** | |
| Dimensions | 482.6×44×280 mm (mounting brackets included) |
| Installations | 19inch 1U Rack mount |

| | |
|---|---|
| Weight | 3.9kg (DC model), about 4.3kg (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<br>(contact discharge ±8kV, air discharge ±15kV)<br>IEC 61000-4-5 (Surge): Level 3<br>(power supply: common mode ±2kV, differential mode ±2kV<br>network port: common mode ±4kV, differential mode ±2kV) IEC 61000-4-4 (EFT): Level 4<br>(power supply: ±4kV, network port: ±2kV) |
| Certification | CE, FCC, RoHS |

## Dimensions

Unit: mm



# Ordering Information

| Standard Model | 10G Fiber Port | Gigabit PoE Port | Input Voltage |
|---|---|---|---|
| CISCOM8028GP-4XGF-24GTPoE-DC48 | 4 | 24 | DC48~57V |
| CISCOM8028GP-4XGF-24GTPoE-AD220 | 4 | 24 | AC120~264V/DC130~370V |

**Contact Us**

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