

CISCOM8028GP-4XGF-24GTPoE

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



- 4 x 10G SFP ports, 24 x 1G PoE ports
- IEEE 802.3af/at, PoE+ standards, up to 30W output per port & total budget 370W
- MW-Ring (recovery time < 20 ms @ 200 switches), EAPS, ERPS, STP/RSTP/MSTP for network redundancy
- Support DDM digital diagnostic monitoring
- Support static routing, RIP, OSPF dynamic routing protocols
- DC48~57V DC or AC120~264V/DC130~370V power input optional
- High-strength aluminum alloy shell
- -40°C to +70°C operating temperature range

Product Description

The CISCOM8028GP-4XGF-24GTPoE is a Layer 3 full-Gigabit managed industrial PoE Ethernet switch designed for high-capacity, rack-mounted deployments in demanding industrial networks. It is equipped with 4 × 10G SFP uplink ports and 24 × Gigabit PoE ports compliant with IEEE 802.3af/at, delivering both data and power to standard PD devices over a single Ethernet cable to simplify installation and reduce cabling costs. Using a store-and-forward architecture with strong bandwidth processing capability, the switch

automatically detects packet errors to minimize transmission failures and ensure stable, efficient Gigabit and 10G data forwarding. Built with industrial-grade components and housed in a robust high-strength aluminum alloy enclosure, it supports standard 19-inch 1U rack installation, with fanless heat dissipation for the DC model and active fan cooling for the AC model to suit different deployment environments.

This Layer 3 industrial switch complies with major industrial communication standards and addresses key requirements for real-time communication, redundancy, and network security. It supports flexible management through CLI access via USB console or Telnet/SSH, web-based management via HTTP/HTTPS, and SNMP for centralized monitoring. A comprehensive set of Layer 2 and Layer 3 features—including routing, redundancy, ring protection, PoE management, multicast control, security, and traffic optimization—enables the switch to handle complex industrial network topologies with high reliability and security. Having passed rigorous functional, temperature, safety, and EMC testing, the CISCOM8028GP-4XGF-24GTPoE series is well suited for harsh environments and is widely deployed in integrated energy systems, smart cities, rail transit, intelligent transportation, smart factories, and industrial automation applications.

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 802.1Q VLAN, providing Access, Trunk, and Hybrid interfaces for easy division into multiple broadcast domains, enhancing network security
- Support VLAN segmentation based on port, MAC address, protocol, IP subnet, etc., making it suitable for networks in diverse environments.
- Support MAC address table and aging time limit, static MAC address binding and filtering to ensure the

use of legitimate users

- Support GVRP protocol to achieve dynamic distribution, registration and propagation of VLAN attributes, and maintain dynamic VLAN
- Support multicast protocols such as PIM, IGMP, GMRP, IGMP Snooping, etc., 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 STP, RSTP, and MSTP spanning tree protocols to eliminate network loops and improve network reliability
- Support ERPS Ethernet multi-ring protection technology, provide multi-ring networking, perform link backup, achieve rapid convergence, and improve network stability
- Support EAPS ring protection protocol and MW-RingV2 private ring network protocol, enhancing the reliability of system communication
- Support loopback detection to prevent network loops from causing network storms
- 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

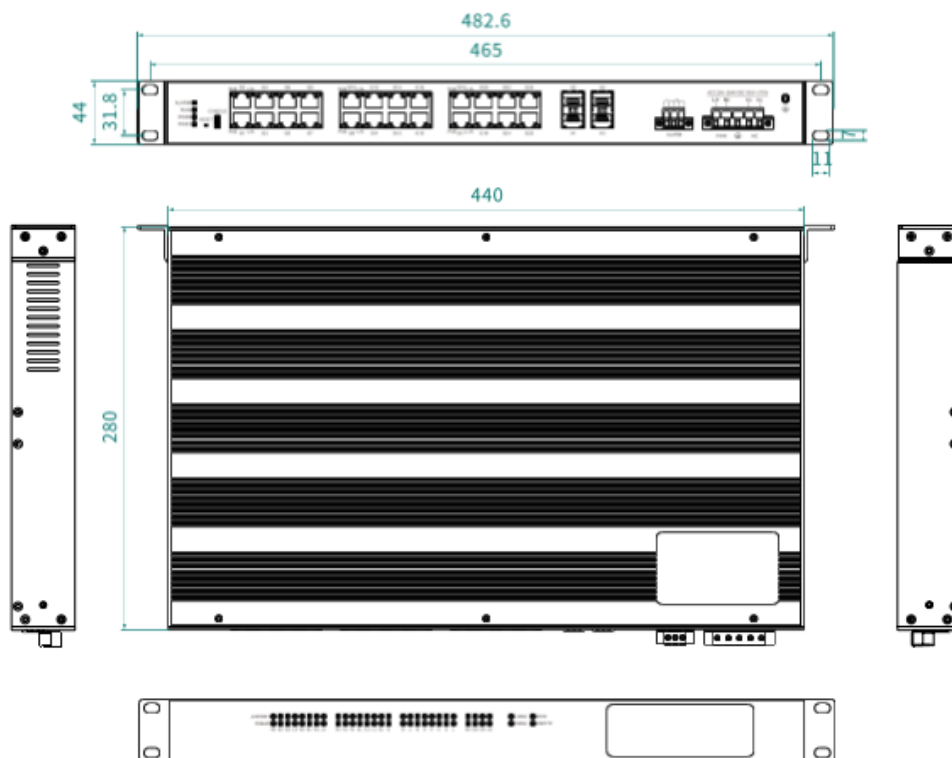
Software	
Switching	Support port configuration, port speed limit, storm suppression, storm detection, port aggregation, LACP, port statistics Support 802.1QVLAN, VLAN based on port/MAC/protocol/subnet, GVRP, port isolation Support MAC address aging and learning limit, static MAC address binding and filtering
Redundancy	Support fast ring network (MW-Ring) proprietary protocol Support EAPS, ERPS Support STP/RSTP/MSTP
Multicast	Support IGMP Snooping Support GMRP Support IGMPv1/v2/v3 Support PIM-DM, PIM-SM
Routing	Support static routing, Support RIP, OSPF dynamic routing, Support VRRP
Security	Support HTTP, HTTPS, TELNET, SSH access methods Support ACL access control list, L2-L4 layer data filtering Support 802.1X port authentication and MAC address authentication Support loopback detection
Management and Maintenance	Support PoE management, maximum power, priority configuration, etc. Support DHCP Server/Snooping/Relay/Security Support QoS, SNMPv1/v2c/v3, SNMPv1/v2c TRAP, LLDP Support port mirroring, DDM, Ping, Traceroute Support different privilege user management, system log, local time synchronization, SNTP client Support online restart, factory reset, system upgrade, configuration file upload/download 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; 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, Operation indicator, Alarm indicator, PoE indicator, Interface indicator
Power Supply	
Input Voltage	DC model: DC48~57V, anti-reverse protection 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°C, the PoE output power of the whole machine is recommended to be less than 270W)
Connection	5-position 7.62mm pitch locking terminal block
Physical Characteristics	
Dimensions	482.6×44×280 mm (mounting brackets included)
Installations	19inch 1U Rack mount
Weight	about 3.9kg (DC model), about 4.3kg (AC model)
Working Environment	
Operating Temp	-40°C to +70°C
Storage Temp	-40°C to +85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	

EMC	- IEC 61000-4-2 (ESD): Level 4 (contact discharge $\pm 8\text{kV}$, air discharge $\pm 15\text{kV}$) - IEC 61000-4-5 (Surge): Level 3 (power supply: common mode $\pm 2\text{kV}$, differential mode $\pm 2\text{kV}$ network port: common mode $\pm 4\text{kV}$, differential mode $\pm 2\text{kV}$) - IEC 61000-4-4 (EFT): Level 4 (power supply: $\pm 4\text{kV}$, network port: $\pm 2\text{kV}$)
Certification	CE, FCC, RoHS

Dimensions

Unit: mm



Ordering Information

Standard Model	10G Fiber Port	1G PoE Port	Input Voltage
CISCOM8028GP-4XGF-24GTPoE-DC48	4	24	DC48~57V
CISCOM8028GP-4XGF-24GTPoE-AD220	4	24	AC120~264V/DC130~370V



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