

CISCOM7028GP-4GF-24GTPoE

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



- Support 4x1G SFP ports, 24 Gigabit PoE ports
- IEEE 802.3af/at, PoE+ standards
- Up to 30W output per port & total budget 240W
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP, MRP for network redundancy
- Support DDM digital diagnostic monitoring
- DC48~57V power input or AC120~264V/DC130~370V AC/DC power input
- High-strength aluminum alloy shell
- -40 to +70°C operating temperature range

Product Description

The CISCOM7028GP-4GF-24GTPoE is a Layer 2 fully Gigabit managed PoE industrial Ethernet switch designed for high-port-density access networks in demanding industrial environments. It provides 4 Gigabit SFP fiber ports and 24 Gigabit PoE copper ports, with PoE power compliant with IEEE 802.3af/at standards to supply standard PD devices directly over Ethernet while maintaining stable data transmission. By integrating power and data on a single cable, it helps reduce wiring complexity and deployment costs. The switch adopts a store-and-forward forwarding mechanism with strong bandwidth processing capability and automatic packet error detection, ensuring reliable Gigabit performance with low packet loss. Built with industrial-grade components and housed in a high-strength aluminum alloy chassis, it supports standard 19-inch 1U rack mounting. Fanless cooling is used on DC models, while AC models feature fan-assisted heat dissipation, and the wide operating temperature range of -40°C to +70°C ensures stable communication in harsh industrial conditions.

The CISCOM7028GP-4GF-24GTPoE series supports comprehensive web-based management and a wide range of industrial networking, redundancy, and security protocols, enabling flexible network configuration, high availability, and secure access control. Advanced functions for traffic management, diagnostics, monitoring, and alarms allow operators to efficiently maintain and optimize network performance in complex topologies. Designed to meet strict industrial reliability requirements, the switch has passed rigorous functional, high- and low-temperature, safety, and EMC testing to ensure long-term stability. It is well suited for applications in industrial automation, integrated energy systems, smart cities, intelligent transportation, smart factories, and other mission-critical industrial networking scenarios.

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 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
- Support MRP media redundancy protocol to enhance network reliability, with reconfiguration time $\leq 500\text{ms}$
- Support WEB control, HTTP, HTTPS protocol access control, login IP address restriction
- 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 TACACS+ clients for user authentication, authorization, and accounting to prevent unauthorized access and enhance system security
- 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

Technical Specifications

Software	
Switching	Support port configuration, port speed limit, storm suppression, storm detection, port aggregation, LACP, port statistics Support 802.1Q VLAN, port isolation, SVL configuration Support MAC address aging, static MAC address binding, source MAC address filter
Redundancy	Support MW-Ring proprietary ring network technology Support ERPS Support RSTP and is compatible with STP Support MRP
Multicast	Support IGMP Snooping Support static multicast Support unknown multicast filter Support GMRP
Security Management	Support WEB, TELNET, and SSH control Support ACL, 802.1X port authentication, TACACS+ client Support loopback detection, network storm alarm, ring network alarm, port disconnect alarm, and Email log
Management and Maintenance	Support PoE management, maximum power consumption and priority configuration Support QoS, SNMPv1/v2c/v3, SNMPv1/v2c/v3 Trap, RMON, LLDP Support port mirroring, DDM, Ping, link detection Support user permission management, system log, NTP client, Daylight Saving Time Support online restart, factory reset, system upgrade, configuration file upload/download Support unified upper-level computer software management
Switching	
Processing Type	Store-and-Forward
Backplane Bandwidth	56Gbps
MAC address Table	8K
Buffer Size	4.1Mbit

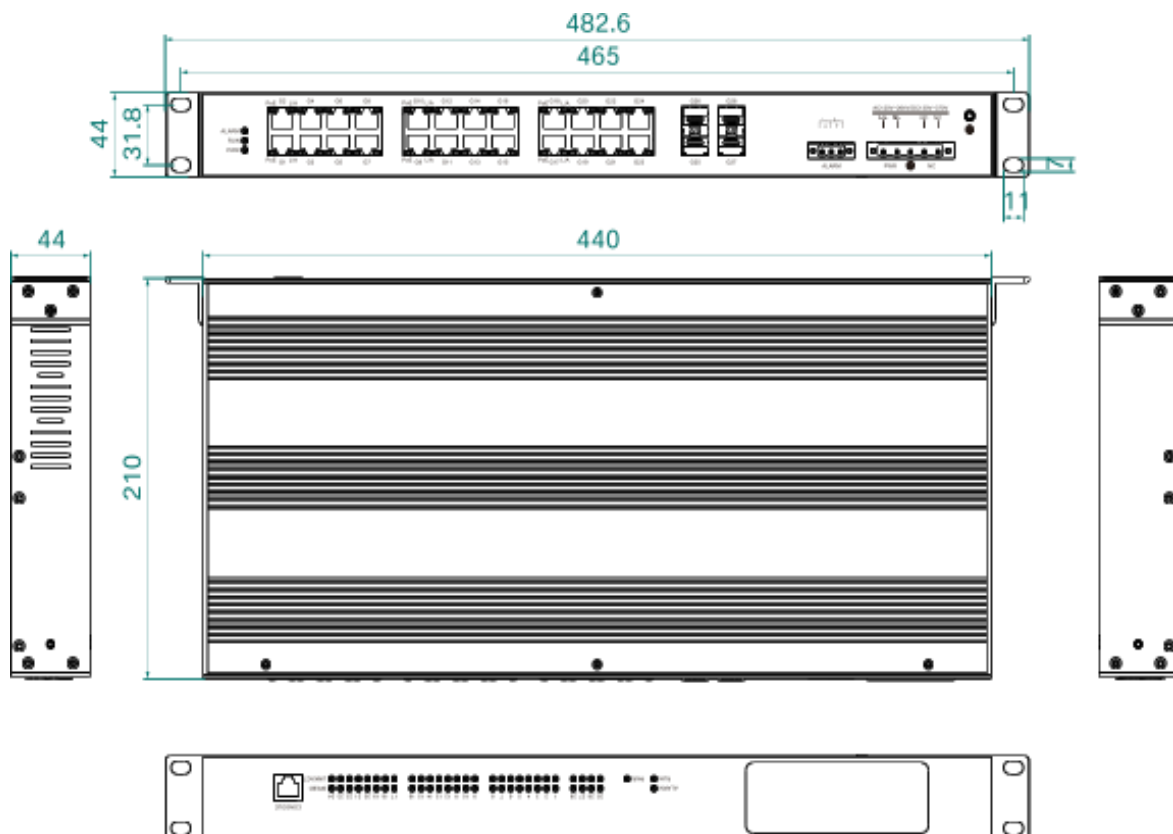
Interface	
1G Fiber Port	4*100/1000Base-X SFP ports, support 100M/1000M SFP fiber module and 1G SFP copper module (SFP module sold separately)
1G PoE Port	24*10/100/1000Base-T(X) auto-sensing PoE RJ45 ports, full/half duplex, auto MDI/MDI-X; PoE power supply complies with IEEE802.3af/at standard, single port PoE maximum consumption 30W; PoE power supply pins: 1 and 2 are positive, 3 and 6 are negative
Relay	1*Relay alarm output, 5.08 mm pitch 3 PIN terminal block
CONSOLE	1*CONSOLE port with an RJ45 connector, supporting RS232 signal for device debugging and command configuration
Button	Factory reset
Statue LEDS	Power indicator, operation indicator, alarm indicator, PoE indicator, port rate and connection/activity indicator
Power Supply	
Input Voltage	DC Model: DC 48~57V, reverse polarity protection AC Model: AC120~264V / DC130~370V
Power Consumption	<21W@DC48V, <32W@ AC220V (without PD), the maximum PoE power consumption of the entire machine is 370W
Connection	7.62mm pitch 5-pin terminal block
Protection	Overcurrent protection
Physical Characteristics	
Dimensions	482.6×44×210 mm (including mounting brackets, excluding connectors)
Installations	Standard 19-inch 1U rack-mount installation
Weight	About 3.3kg (DC Model), About 3.7kg (AC Model)
Working Environment	
Operating Temp	-40°C to +75°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 $\pm 1\text{kV}$; network port: Common-mode $\pm 4\text{kV}$, differential-mode $\pm 2\text{kV}$) IEC 61000-4-4 (EFT): Level 3 (Power supply: $\pm 4\text{kV}$; Ethernet port: $\pm 2\text{kV}$)
Certification	CE, FCC, RoHS

Dimensions

Unit: mm



Ordering Information

Standard Model	1G Fiber Port	1G PoE Port	Input Voltage
CISCOM7028GP-4GF-24GTPoE-DC48	4	24	DC48~57V
CISCOM7028GP-4GF-24GTPoE-AD220	4	24	AC120~264V/DC130~370V



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