

CISCOM7212GP-4GF-8GTPoE

12-Port Layer 2 Full Gigabit Managed DIN Rail Industrial PoE Ethernet Switch



- Support 4x1G SFP ports, 8x1G PoE RJ45 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, enabling monitoring of parameters of DDM SFP optical modules
- Dual DC 48~57V power inputs for power redundancy, reverse polarity protection
- High-strength aluminum alloy shell, IP40 protection
- -40°C to +75°C operating temperature range

Product Description

CISCOM7212GP-4GF-8GTPoE is a layer 2 managed DIN-rail PoE industrial Ethernet switch. It supports 4x1G SFP ports and 8x1G PoE ports. It is suitable for devices that comply with the IEEE802.3af/at standard. The switch adopts a store-and-forward mechanism, has strong bandwidth processing capabilities, automatically detects data packet errors, reduces transmission failures. The product selects industrial-grade components, and follows high-standard system design and production control. The DIN-rail aluminum alloy casing is sturdy and durable, with a fanless casing for heat dissipation. It operates in a wide temperature range of -40°C to +75°C and has a high-standard industrial protection design. It can adapt to various harsh working environments and has stable communication performance.

CISCOM7212GP-4GF-8GTPoE supports WEB management functionality and multiple network protocols, including PoE, MW-Ring, ERPS, STP/RSTP, MRP, VLAN, SVL, LACP, LLDP, SNMPv1/v2c/v3, RMON, QoS, 802.1X authentication, TACACS+ client, IGMP Snooping, GMRP, ACL, WEB/TELNET/SSH access control, static aggregation, port mirroring, static MAC address binding, network diagnostics, loopback detection, line diagnostics, DDM, email logging, relay alarms, SNTP client, system logging, and online system upgrades. These features enhance network performance, reliability, and security to meet diverse complex network requirements. The product undergoes rigorous functional, high/low temperature, safety, and EMC testing to

meet diverse network deployment and harsh industrial environment requirements. It is widely applicable in industrial automation, integrated energy systems, smart cities, intelligent transportation, smart factories, and other fields.

Product Features

- Support broadcast, unknown multicast and unknown unicast packet rate limit, broadcast and multicast data packet storm detection, to prevent broadcast storm
- Support link static aggregation, which can increase transmission bandwidth and improve link reliability
- Support port mirroring and collects data from port ingress and egress for network detection and fault management
- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interface easy to divide multiple broadcast domain, enhance the security of the network
- Support IGMP Snooping, layer 2 multicast forwarding table, reducing multicast data broadcast in the network
- Support LLDP, enabling the acquisition of LLDP neighbor device information for link status monitoring, facilitating topology management and fault localization
- Support ERPS, enabling multi-ring networking with link backup for rapid convergence and enhanced network stability
- Support RSTP, compatible with STP, eliminating network loops to improve reliability
- Support MRP for enhanced network reliability, with reconfiguration time $\leq 500\text{ms}$
- Support WEB control, HTTP, HTTPS protocol access control, login IP address restrictions
- Support centralized management of SNMPv1/v2c/v3 and SNMPv1/v2c/v3 trap messages, supporting both State Grid standard traps and private traps
- Support RMON remote network monitoring, make statistics and alarm of various data frames, and can be used for remote monitoring and management of network management system
- Offer 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, to authenticate the 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 loopback detection to prevent the network from ring and causing a network storm
- Support PoE Ethernet power delivery with configurable port powering priority, enabling standard PD devices to be powered via Ethernet cables and reducing power cabling costs

- Support recording, downloading, and categorizing system log information, with output options to web pages, log hosts, and consoles for display

Technical Specifications

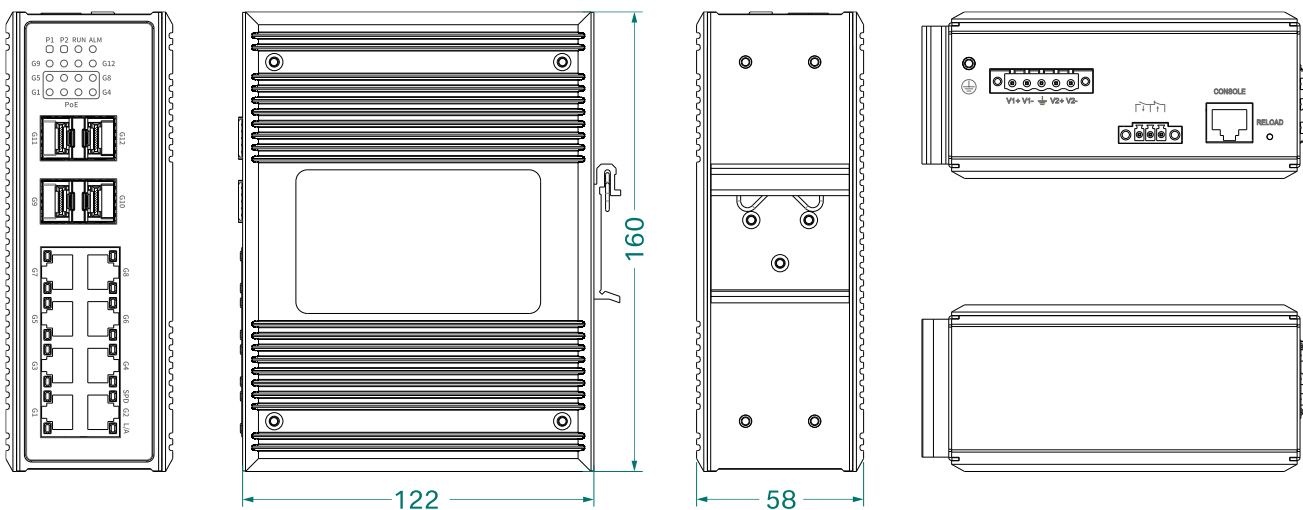
Software	
Switching	Support port configuration, port speed limit, storm suppression, storm detection, port aggregation, LACP, port statistics Support 802.1Q VLAN, port isolation, SVL configuration Support MAC address aging, static MAC address binding, source MAC address filter
Redundancy	Support MW-Ring 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, power outage 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	8*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, SFP interface indicator, PoE indicator, port rate and connection/activity indicator
Power Supply	
Input Voltage	DC 48~57V, dual inputs for power redundancy (When there is a PD load that complies with the IEEE802.3at standard, please use the DC 51~57V power adapter for power input. In addition, the maximum power consumption of the power adapter must be higher than the total power consumption of the device and each PD load)
Power Consumption	<12W@DC48V (without PD), the maximum PoE power consumption of the entire machine is 240W
Connection	5.08mm pitch 5-pin terminal block
Physical Characteristics	
Dimensions	160×58×122mm (excluding DIN rail mounting clip and connectors)
Installations	35mm standard DIN rail installation
IP Code	IP40
Weight	0.91kg
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, network port: Common-mode $\pm 2\text{kV}$, differential-mode $\pm 1\text{kV}$) IEC 61000-4-4 (EFT): Level 3 (Power supply: $\pm 2\text{kV}$; 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
CISCOM7212GP-4GF-8GTPoE	4	8	Dual DC 48-57V power inputs



Contact Us

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