

CISCOM7212G-4GF-8GT

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



- 4 x Gigabit SFP ports, 8 x 10/100/1000Base-T(X) RJ45 ports
- Support ring network redundancy protocols such as MW-Ring, ERPS, STP/RSTP, MRP
- Fast Ring Redundancy (MW-Ring) <20ms
- Support AC 85V~264V/DC 110V~370V power input or DC 9V~60V redundant power inputs
- High strength aluminum alloy shell, IP40-rated housing protection, fanless design
- Work in harsh industrial environments of -40 °C~+75 °C

Product Description

The CISCOM7212G-4GF-8GT is a rugged Layer 2 managed DIN-rail mount industrial Ethernet switch designed for high-performance networking in demanding environments. It features 4 × Gigabit SFP ports and 8 × 10/100/1000Base-T(X) ports, using a store-and-forward mechanism to deliver strong bandwidth processing capabilities. Automatic packet error detection reduces transmission failures, ensuring stable, reliable, and efficient 1000 Mbps data communication. Built with industrial-grade components and manufactured under strict quality standards, it includes a 35mm DIN-rail mount design, a high-strength aluminum alloy shell, and a wide operating temperature range of -40°C to +75°C, providing dependable performance in harsh conditions.

The switch supports web-based management and a comprehensive range of network protocols, including 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, and advanced diagnostics such as loopback detection, line testing, and DDM. Additional features include email logging, alarms, SNTP, system logging, and online firmware upgrades. Rigorously tested for functionality, temperature tolerance, safety, and EMC compliance, the CISCOM7212G-4GF-8GT is ideal for mission-critical applications in industrial automation, integrated energy systems, smart cities, intelligent transportation, and smart factories.

Product Features

- Support rate limiting for broadcast, unknown multicast, and unknown unicast packets, as well as broadcast and multicast packet storm detection to prevent network storms.
- Support static link aggregation and LACP dynamic link aggregation to increase transmission bandwidth and improve link reliability.
- Support port mirroring to collect data at both ingress and egress ports for network detection and fault management.
- Support 802.1Q VLANs, providing access, trunk, and hybrid interfaces to divide multiple broadcast domains and enhance network security easily.
- Support multicast protocols such as IGMP Snooping and GMRP to reduce multicast data broadcasts on the network and conserve network resources.
- Support the LLDP to obtain LLDP neighbor information and monitor link status, facilitating topology management and fault location.
- Support ERPS Ethernet multi-ring protection technology, providing multi-ring networking, link backup, rapid convergence, and improved network stability.
- Support the RSTP spanning tree protocol, compatible with STP, to eliminate network loops and improve network reliability.
- Support the MRP media redundancy protocol, improving network reliability and achieving a reconfiguration time of $\leq 500\text{ms}$.
- Support web control, HTTP and HTTPS protocol access control, and login IP address restrictions.
- Support SNMPv1/v2c/v3 centralized management and SNMPv1/v2c/v3 TRAP information, supporting standard TRAP and proprietary TRAP network standards
- Support RMON remote network monitoring, generating statistics and alarms for various data frame types, enabling remote monitoring and management by network management systems.
- Support QoS to prioritize the transmission of voice, video, and critical data within network devices, alleviating network congestion.
- Support ACL access control lists, allowing you to customize filter rules for multiple frame types, filtering or rate limiting specific packets.
- Support 802.1X port authentication for user authentication, providing local and RADIUS login authentication.
- Support TACACS+ client for user authentication, authorization, and accounting, preventing unauthorized logins and enhancing system security.
- Support loopback detection to prevent network loops and network storms. Supports system log information recording, downloading and classification, which can be output to WEB pages, log hosts and consoles for display

Technical Specifications

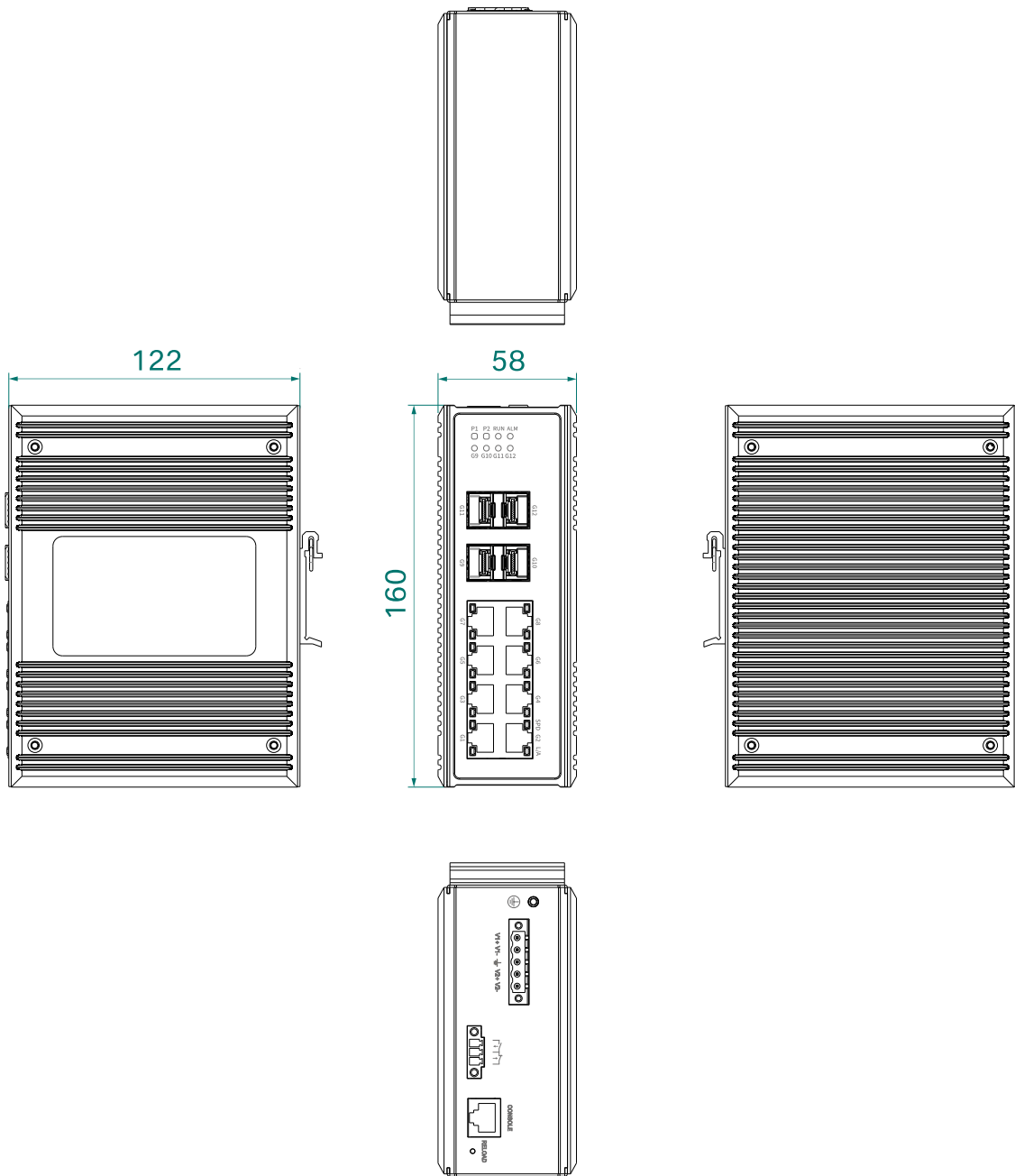
Software	
Switching	<p>Support port configuration, port speed limit, storm suppression, storm detection, port aggregation, LACP, port statistics</p> <p>Support 802.1Q VLAN, port isolation, SVL configuration</p> <p>Support MAC address aging, static MAC address binding, source MAC address filtering</p>
Redundancy	<p>Support MW-Ring ring proprietary network technology</p> <p>Support ERPS/RSTP/STP</p> <p>Support MRP</p>
Broadcast	<p>Support IGMP Snooping</p> <p>Support static multicast MAC address</p> <p>Supports unknown multicast filtering</p> <p>Supports GMRP</p>
Security Management	<p>Support WEB, TELNET, and SSH control</p> <p>Support ACL access control list, 802.1X port authentication, TACACS+ client</p> <p>Support loopback detection, network storm/power failure/ring network status/port disconnection alarm, and email log</p>
Management and Maintenance	<p>Support QoS, SNMP v1/v2c/v3, SNMPv1/v2c/v3 TRAP, RMON, and LLDP.</p> <p>Support port mirroring, Ping, optical module DDM, and line diagnostics.</p> <p>Support user rights management, system logs, SNTP client, and daylight saving time.</p> <p>Support online reboot, factory reset, system upgrade, and configuration file upload/download.</p> <p>Support MW-NMPv2, MixView, and MaxView management.</p>
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	56Gbps
Buffer Size	4.1Mbit

MAC Table Size	8K
Interface	
1G Fiber Port	4 x 100/1000Base-X SFP ports, support 100M/1G SFP module (Come-Star SFP modules are highly recommended)
1G Copper Port	8 x 10/100/1000Base-T(X) auto-sensing Gigabit RJ45 port for full/half duplex, auto MDI/MDI-X connection
Relay	1 * relay alarm output, 3-pin 3.81mm terminal block
CONSOLE	1*RJ45 CONSOLE port of RS232 signal for equipment debugging and command line configuration
Button	Factory reset
Status LED	Power indicator, operation indicator, alarm indicator, SFP interface indicator, port rate and connection / activity indicator
Power Supply	
Power Input	DC Model: DC9V-60V, support redundant inputs and reverse polarity protection AC Model: AC85V-264V (47-63Hz) / DC110V370V
Power Consumption	<11W@DC24V (full load) <12W@AC220V (full load)
Connection	5-pin 5.08mm terminal block
Physical Characteristics	
Dimension	160 × 58 × 122 mm (Not including Din rail mounting clip)
Installation	35mm standard DIN rail installation
Shell Protection	IP40; Aluminum alloy shell
Weight	About 0.95kg
Working Environment	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃

Ambient Humidity	5%~95% (No condensation)
Industry Standard	
EMC	<p>IEC 61000-4-2 (ESD): Level 4 (Contact discharge $\pm 8\text{kV}$, air discharge $\pm 15\text{kV}$)</p> <p>IEC 61000-4-5 (Surge): Level 4 (Power supply: common mode $\pm 4\text{kV}$, differential mode $\pm 2\text{kV}$; Ethernet port: common mode $\pm 6\text{kV}$, differential mode $\pm 2\text{kV}$)</p> <p>IEC 61000-4-4 (EFT): Level 4 (Power supply: $\pm 4\text{kV}$; Ethernet port: $\pm 2\text{kV}$)</p> <p>*AC models have a surge level of Level 3 (power supply common mode $\pm 2\text{kV}$); others have a surge level of Level 4</p>

Dimensions

Unit: mm



Ordering Information

Standard Model	1G Fiber Port	1G Copper Port	Input Voltage
CISCOM7212G-4GF-8GT	4	8	DC 9V~60V redundant power inputs
CISCOM7212G-4GF-8GT-AD220	4	8	AC85V~264V/DC110V~370V power input



Contact Us

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