CISCOM7028G-12GF-8GC-8GT

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



- 12 x 1G SFP ports, 8 x 1G combo ports, 8 x 10/100/1000 Base-T(X) RJ45 ports
- Support ring network redundancy protocols such as MW-Ring, ERPS, STP/RSTP, MRP.
- Fast Ring Redundancy (MW-Ring) <20ms
- Support single/dual AC85V~264V/DC110V~370V power inputs, dual inputs support power redundancy
- High strength aluminum alloy shell, IP40-rated housing protection, fanless heat dissipation
- -40 ℃~+75 ℃ operating environment range

Product Description

The CISCOM7028G-12GF-8GC-8GT is a 28-port Layer 2 gigabit managed rack-mount industrial Ethernet switch, designed to deliver stable, reliable, and high-performance network connectivity. It features 12 x Gigabit SFP ports compatible with 100Base-FX, 8 x Gigabit combo ports, and 8 x 10/100/1000Base-T(X) ports with a store-and-forward mechanism, offering powerful bandwidth processing capabilities. Its automatic packet error detection function reduces transmission failures, ensuring efficient gigabit data communication. Built with industrial-grade components and manufactured under high-standard system and production control, the switch comes in a 19-inch 1U rack-mount standard enclosure with a durable aluminum alloy shell and fanless heat dissipation. It operates within a wide temperature range of -40°C to +75°C and provides high-level industrial protection, enabling dependable performance in harsh environments.

The CISCOM7028G-12GF-8GC-8GT supports intuitive web-based network management and an extensive range of 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, network diagnostics, loopback detection, line diagnostics, DDM, email logging, alarms, SNTP client, system logging, and online system upgrades. With its comprehensive feature set, this switch ensures secure, reliable, and high-performance networking across diverse and complex environments, making it ideal for industrial automation, integrated energy, smart cities, intelligent transportation, and smart factory applications.

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 easily divide multiple broadcast domains and enhance network security.
- Support multicast protocols such as IGMP Snooping and GMRP to reduce multicast data broadcasts 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 and link backup, achieving rapid convergence and improving 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 to improve network reliability and achieve reconfiguration time of ≤ 500ms
- 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, providing 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 multiple frame type filtering rules to filter or rate-limit specific packets
- Support 802.1X port authentication for user authentication, including local and RADIUS login authentication
- Support TACACS+ client for user authentication, authorization, and billing, preventing unauthorized logins and enhancing system security
- Support loopback detection to prevent network loops and network storms
- Support system log information recording, downloading, and classification, with output to the web page, log host, and console for display

Technical Specifications

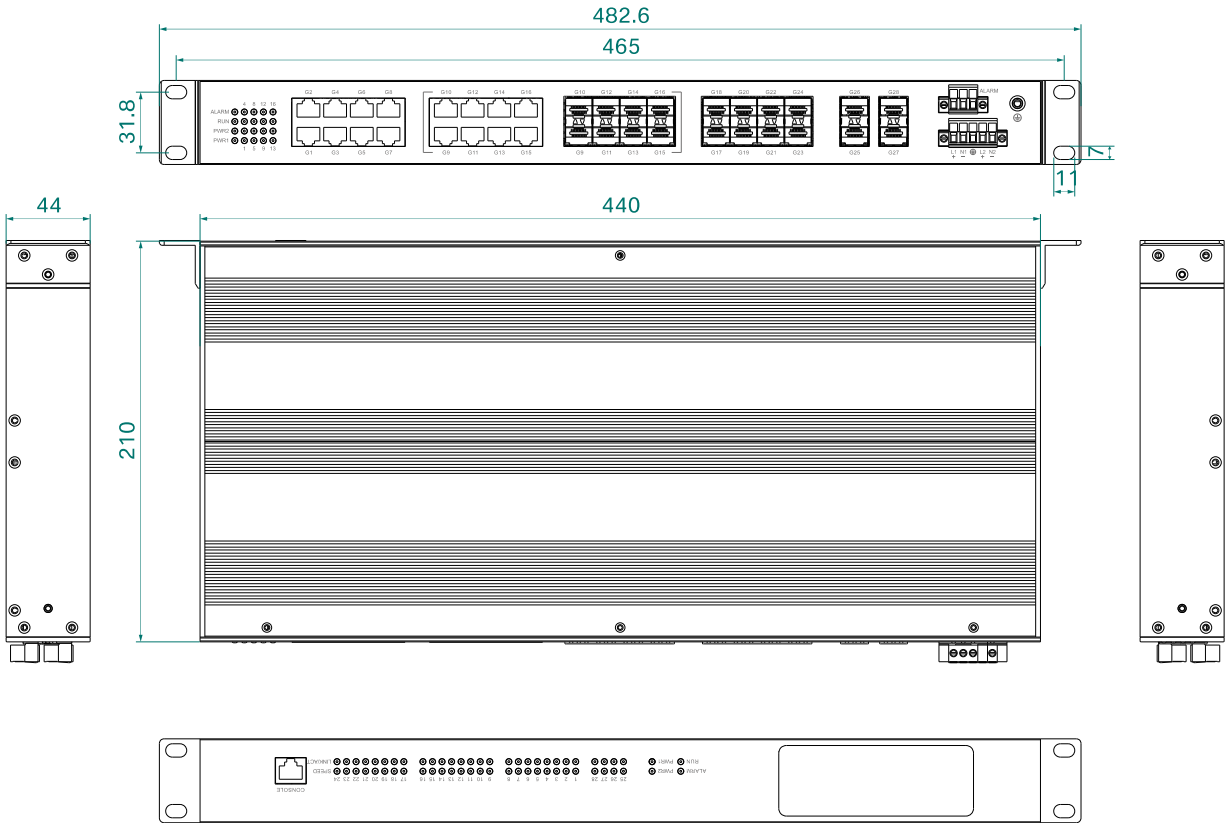
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics. Support 802.1Q VLAN, port isolation, and SVL configuration. Support MAC address aging and learning limits, static MAC address binding, and source MAC address filtering.
Redundancy	Support MW-Ring proprietary ring network technology Support ERPS Support RSTP/STP Support MRP
Broadcast	Support IGMP Snooping Support static multicast MAC address binding Support unknown multicast filtering Support GMRP
Security Management	Support web, telnet, and SSH access control Support ACL access control lists, 802.1X port authentication, and TACACS+ client Support loopback detection, network storm/ring status/port disconnection alarms, and email logging
Management and Maintenance	Support QoS, SNMP v1/v2c/v3, SNMPv1/v2c/v3 TRAP, RMON, and LLDP. Support port mirroring, Ping, optical module DDM, and line diagnostics. Support user rights management, system logs, SNTP client, and daylight saving time. Support online reboot, factory reset, system upgrade, and configuration file upload/download. Support MW-NMPv2, MixView, and MaxView management.
Switch Capability	

Processing Type	Store-and-Forward
Backplane Bandwidth	56Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	
1G Fiber Port	12 x 1000 Base-X Gigabit SFP ports, compatible with 100 Base-FX Recommend our SFP module to use together
1G COMBO Port	8 x 1G combo port, support 10/100/1000 Base-T (X) auto-sensing Gigabit RJ45 ports or 1000Base-X Gigabit SFP ports optional, the port support full/half duplex, auto MDI/MDI-X connection
1G Copper Port	8 x 10/100/1000 Base-T (X) auto-sensing Gigabit RJ45 ports for full/half duplex, auto MDI/MDI-X connection
Relay	1 x relay alarm output, 3-pin 5.08mm terminal block
CONSOLE	1 RJ45 CONSOLE port of RS232 signal for equipment debugging and command line configuration
Status LED	Power indicator, operation indicator, alarm indicator, interface rate and connection/active status indicator
Power Supply	
Power Input	AC85V~264V/DC110V~370V, single/dual power supply is optional
Power Consumption	<35W@AC220V (full load)
Connection	5-pin 5.08mm terminal block
Physical Characteristics	
Dimensions	482.6 × 44 × 210 mm (Mounting brackets included)

Installations	Standard 19-inch 1U rack mount
IP Code	IP40; Aluminum alloy shell
Weight	About 3.5kg
Working Environment	
Operating Temperature	-40℃~+75℃
Storage Temperature	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2(ESD): Level 4 (contact discharge ±8kV, air discharge ±15kV) IEC 61000-4-5(Surge): Level 4 (power supply: common mode ±4kV, differential mode ±2kV Ethernet port: common mode ±6kV, differential mode ±2kV) IEC 61000-4-4(EFT): Level 4 (power supply: ±4kV, Ethernet port: ±2kV)

Dimensions

Unit: mm



Ordering Information

Standard Model	1G Fiber Port	1G Combo Port	1G Copper Port	Input Voltage
CISCOM7028G-12GF-8GC-8GT-AD220	12	8	8	AC85~264V/ DC110~370V power input
CISCOM7028G-12GF-8GC-8GT-2AD220	12	8	8	AC85~264V/ DC110~370V Redundant power inputs

Contact Us

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