

CISCOM7028G-4GF-8GC-16GT

28-Port Rack Mount Layer 2 Managed Industrial Ethernet Switch



- 4 x Gigabit SFP ports, 8 x Gigabit combo ports, 16 x 10/100/1000Base-T(X) RJ45 ports
- Support ring network redundancy protocols such as MW-Ring, ERPS, STP/RSTP, and MRP to improve network reliability;
- Fast Ring Redundancy (MW-Ring) <20ms enhances the reliability of system communication
- Support single/dual DC24V, DC48V or AD220V power inputs, dual inputs enhance redundancy
- High strength aluminum alloy shell, IP40-rated housing protection, fan-less heat dissipation
- Reliably work in harsh industrial environments of -40 °C~+75 °C

Product Description

CISCOM7028G-4GF-8GC-16GT is a 28-port rack mount layer 2 gigabit managed industrial Ethernet switch. It supports 4 x Gigabit SFP ports, 8 x Gigabit combo ports, and 16 x 10/100/1000Base-T(X) ports with a store-and-forward mechanism, boasting powerful bandwidth handling capabilities. Automatic packet error detection reduces transmission failures to ensure stable, reliable, and efficient data transmission of Gigabit networks. The product is equipped with industrial-grade components and high-standard system and production control, such as: 19-inch 1U standard rack-mountable standard; durable, high-strength aluminum alloy shell with fanless heat dissipation; -40°C to +75°C operating temperature range and high-standard industrial protection to maintain stable communication performance in a variety of harsh operating environments.

CISCOM7028G-4GF-8GC-16GT supports web-based network management and multiple network protocols, such as: 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 to ensure reliability, and security of better performance in diverse and complex networks. Approved testing of functional, temperature, safety, and EMC testing, it satisfies the demands of complex networks and harsh industrial environments. It is widely used in industrial automation, integrated energy, smart cities, intelligent transportation, smart factories, and other fields.

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 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 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, 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/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. Supports 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	4 x 1000Base-X Gigabit SFP ports 100Base-FX compatible Recommend our SFP module to use together
1G Combo Port	8 x 1G combo port, support 10/100/1000Base-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	16 x 10/100/1000Base-T (X) auto-sensing Gigabit RJ45 ports for full / half duplex, auto MDI / MDI-X connection
Relay	1*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	DC Model: DC18V~36V or DC36V~72V, single or dual inputs, reverse polarity protection, AC Model: AC85V~264V / DC110V~370V, single or dual inputs
Power Consumption	<28W@DC24V, <27W@DC48V, <30W@AC220V
Connection	5-pin 5.08mm terminal block
Physical Characteristics	
Dimension	482.6 × 44 × 210 mm (Including mounting brackets)
Installation	Standard 19-inch 1U rack mount
IP Code	IP40; Aluminum alloy shell
Weight	About 3.5kg

Working Environment

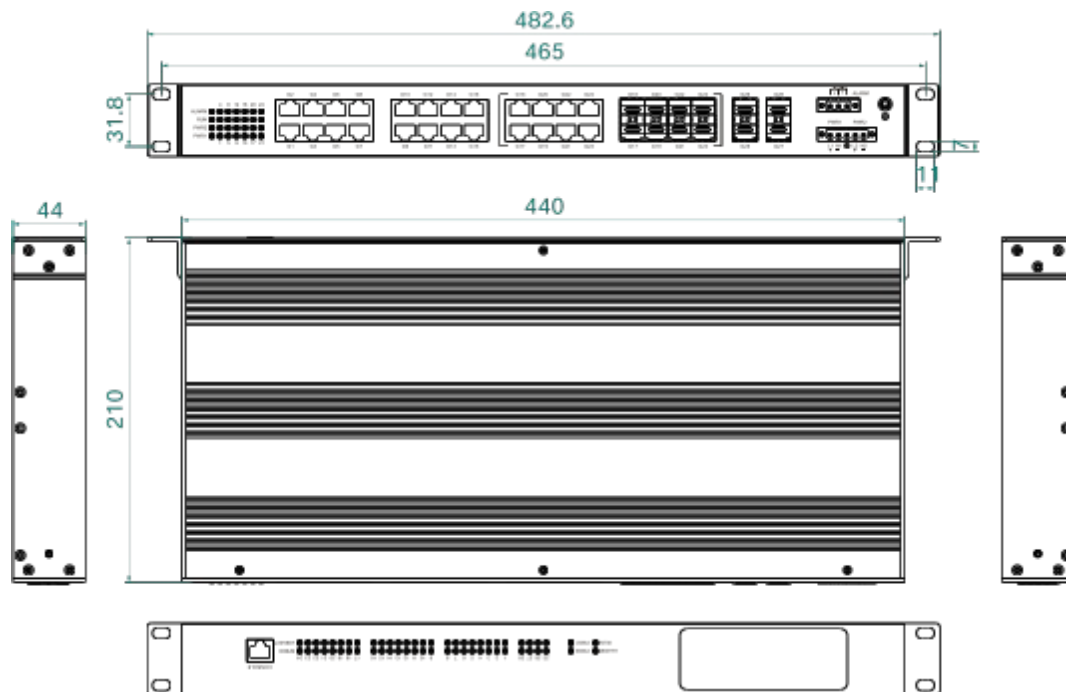
Operating Temp	-40°C~+75°C
Storage Temp	-40°C~+85°C
Ambient Humidity	5%~95% (No condensation)

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 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 $\pm 2\text{kV}$) IEC 61000-4-4 (EFT): Level 4 (Power supply: $\pm 4\text{kV}$, Ethernet port: $\pm 2\text{kV}$) *DC models have a surge level of Level 3 (power supply common mode $\pm 2\text{kV}$); all others have a surge level of Level 4
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Dimensions

Unit: mm



Ordering Information

Standard Model	1G Fiber Port	1G Combo Port	1G Copper Port	Input Voltage
CISCOM7028G-4GF- 8GC-16GT-DC24	4	8	16	DC18V~36V power input (redundant inputs optional)
CISCOM7028G-4GF- 8GC-16GT-DC48	4	8	16	DC36V~72V power input (redundant inputs optional)
CISCOM7028G-4GF- 8GC-16GT-AD220	4	8	16	AC85V~264V/DC110~370V power input (redundant inputs optional)



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