CISCOM7028G-4GC-24GT

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



- Support 4 × 1G fiber/copper combo ports and 24 × 1G copper ports
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP, MRP for network redundancy
- Support DDM to detect DDM optical module temperature, voltage, current, transmit optical power, and receive optical power
- Support single/dual DC24/DC48/AD220 power inputs, dual inputs support power redundancy
- High-strength aluminum alloy shell, IP40-rated housing protection, fanless design
- -40 to 75°C operating temperature range

Product Description

CISCOM7028G-4GC-24GT is a 28-port Layer 2 gigabit managed rack-mount industrial Ethernet switch, equipped with 4 × 1G fiber/copper combo ports and 24 × 1G copper ports. It adopts the store-and-forward mechanism, delivers powerful bandwidth processing capability, automatically detects and corrects packet errors, reduces transmission failures, and ensures stable, reliable, and efficient data transmission in gigabit networking.

Built with industrial-grade components and high-standard system design and production control, it features a 19-inch 1U rackmount installation with a high-strength aluminum alloy housing and fanless heat dissipation. It operates reliably in harsh industrial environments with an operating temperature range of -40°C to +75°C and a high-level industrial protection design.

The managed switch supports web-based management and multiple network protocols, including MW-Ring, ERPS, STP/RSTP, MRP, VLAN, SVL, LACP, LLDP, SNMP v1/v2c/v3, RMON, QoS, 802.1X authentication, TACACS+ client, IGMP Snooping, GMRP, ACL, WEB/TELNET/SSH access control, port mirroring, static MAC address binding, network diagnostics, loopback detection, link diagnostics, DDM, Email log, alarm, SNTP client, system log, and online upgrade. These features enhance network performance, reliability, and security, meeting the demands of complex network applications.

Tested for functionality, temperature, safety, and EMC, CISCOM7028G-4GC-24GT is suitable for a wide range of applications, including industrial automation, energy, smart cities, transportation and smart factories.

Product Features

- Support rate limiting for broadcast, unknown multicast, and unknown unicast packets, with broadcast and multicast storm detection to prevent network storms.
- Support static LACP and dynamic LACP aggregations to increase transmission bandwidth and improve link reliability.
- Support port mirroring to capture ingress and egress data for network diagnostics and fault management.
- Support 802.1Q VLAN, providing Access, Trunk, and Hybrid interfaces to divide multiple broadcast domains and enhance network security.
- Support IGMP Snooping and GMRP to reduce multicast broadcast and save network resources.
- Support LLDP to obtain neighbor information, monitor link status, and facilitate topology management and fault location.
- Support ERPS for multi-ring networking, link backup, fast convergence, and improved network stability.
- Support RSTP, compatible with STP, to eliminate network loops and improve reliability.
- Support MRP to enhance network reliability, with reconfiguration time ≤500 ms.
- Support web management with HTTP and HTTPS access control and login IP restriction.
- Support SNMP v1/v2c/v3 centralized management and TRAP messages, including standard and private TRAPs.
- Support RMON to collect statistics and generate alarms for various frame types, enabling remote monitoring and management.
- Support QoS to prioritize voice, video, and critical data transmission, alleviating network congestion.
- Support ACL to filter or rate-limit packets based on customized frame types.
- Support 802.1X port authentication to verify access users and provide local and RADIUS login authentication.
- Support TACACS+ client for authentication, authorization, and accounting to prevent unauthorized access and enhance security.
- Support loopback detection to prevent network loops and associated storms.
- Support system logs recording, downloading, and classification, with output to web pages, log hosts, consoles and Email logs.

Technical Specifications

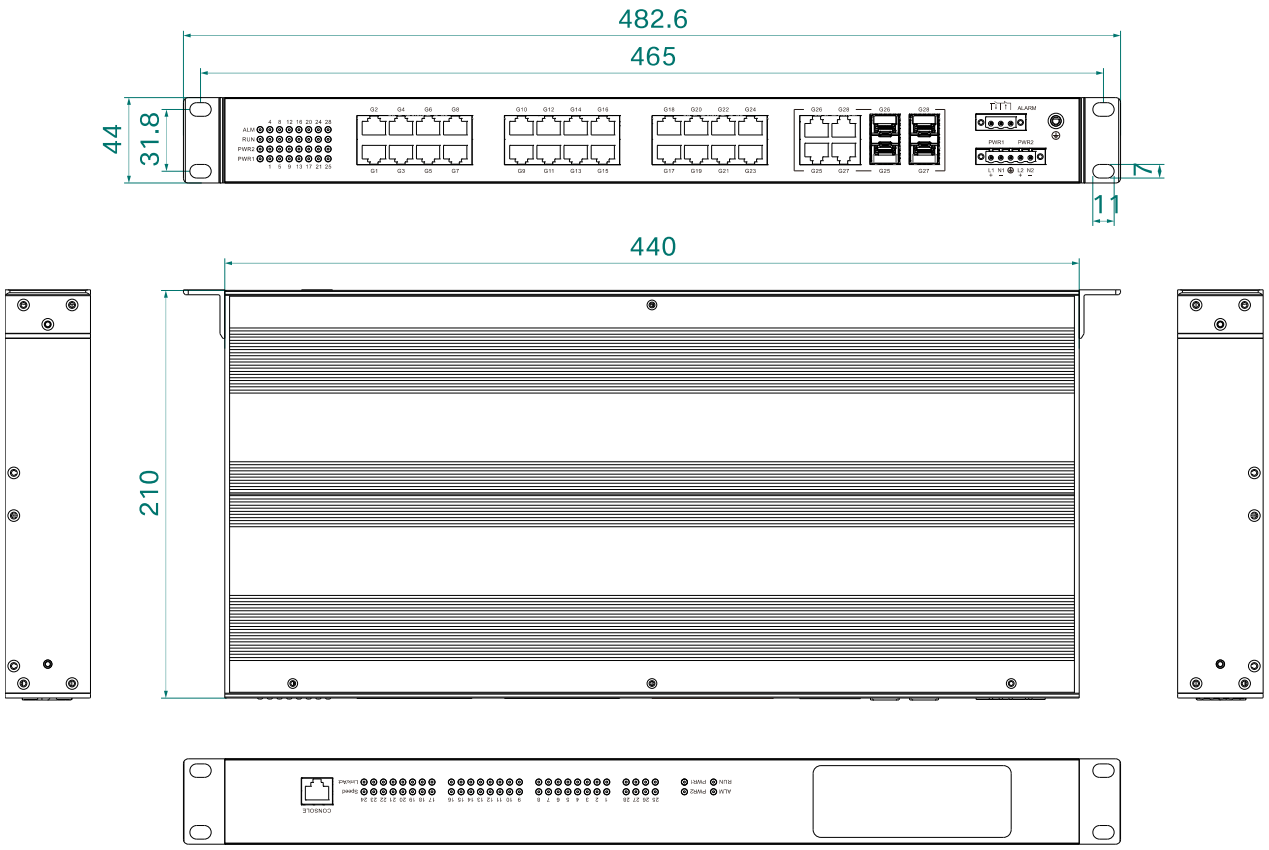
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics Support 802.1Q VLAN, port isolation, and SVL configuration Support MAC address aging and learning limits, static MAC address binding, and source MAC address filtering
Redundancy	Support MW-Ring proprietary ring network technology Support ERPS Support STP/RSTP 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, alarms for network storm, ring status, and port disconnection, and email logs
Management and Maintenance	Support QoS, SNMP v1/v2c/v3, SNMP v1/v2c/v3 TRAP, RMON, and LLDP Support port mirroring, Ping, optical module DDM, and link diagnostics Support user permission management, system logs, SNTP client, and daylight saving 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
Backboard Bandwidth	56Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	
1G Fiber Port	4 x 1G fiber/copper combo ports, support 10/100/1000 Base-T(X) auto-sensing RJ45 copper ports, full/half duplex, auto MDI /MDI-X; or 1000 Base-X SFP ports
1G Copper Port	24 x 10/100/1000 Base-T(X) auto-sensing RJ45 copper ports, full/half duplex, auto MDI /MDI-X
Relay	1 x relay alarm output, 3-pin 5.08 mm terminal block
Console	1× RJ45 CONSOLE port of RS232 signal for equipment debugging and command line configuration
Status LEDs	Power indicator, operation indicator, alarm indicator, port rate, and connection/active status indicator
Power	
Power Input	DC Model: DC18~72V, single/dual power inputs optional, anti-reverse connection AC Model: AC85~264V / DC110~370V, single/dual power inputs optional
Power Consumption	< 22W@DC24V, < 22W@DC48V, < 24W@AC220V
Connection	5-pin 5.08mm terminal block
Physical Characteristics	
Dimensions	482.6×44×210 mm (Mounting brackets included, connectors excluded)
Installations	Standard 19-inch 1U rack mount
IP Code	IP40

Weight	About 3kg
Working Environment	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 4 IEC 61000-4-5 (Surge): Level 4 ※The Ethernet port supports 6kV surge protection IEC 61000-4-4 (EFT): Level 4

Dimensions

Unit: mm



Ordering Information

Standard Model	1G Combo Port	1G Copper Port	Input Voltage
CISCOM7028G-4GC-24GT-DC24	4	24	DC18~72V Power Input
CISCOM7028G-4GC-24GT-DC48	4	24	
CISCOM7028G-4GC-24GT-AD220	4	24	AC85~264V / DC110~370V Power Input
CISCOM7028G-4GC-24GT-2DC24	4	24	DC18~72V Redundant Power Inputs
CISCOM7028G-4GC-24GT-2DC48	4	24	
CISCOM7028G-4GC-24GT-2AD220	4	24	AC85~264V / DC110~370V Redundant Power Inputs

Contact Us

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