CISCOM7028-4GC-16F

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



- Support 4 × 1G fiber/copper combo ports, 16 × 100M fiber ports, and 8 × 100M 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 AC85~264V/DC110~370V power inputs or single/dual DC18~75 power input
- High-strength aluminum alloy shell, IP40-rated housing protection, fanless design
- -40 to 75°C operating temperature range

Product Description

CISCOM7028-4GC-16F is a 28-port Layer 2 gigabit managed rack-mount industrial Ethernet switch, equipped with 4 × 1G fiber/copper combo ports, 16 × 100M fiber ports and 8 × 100M copper ports. It adopts the store-and-forward mechanism, delivers powerful bandwidth processing capability, automatically detects and corrects packet errors, and reduces transmission failures. This ensures stable, reliable, and efficient data transmission in gigabit networking.

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

This managed Layer 2 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, static aggregation, port mirroring, static MAC address binding, network diagnostics, loopback detection, link diagnostics, DDM, Email logs, alarms, SNTP client, system logs, and online firmware upgrades. These features enhance network performance, reliability, and security, meeting the demands of complex industrial networks.

Tested for functionality, temperature, safety, and EMC compliance, CISCOM7028-4GC-16F is suitable for applications in industrial automation, integrated energy, smart city, intelligent transportation, and smart factory environments.

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, improve link reliability, and enable network load balancing.
- 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 enhance reliability.
- Support MRP to improve 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 state grid standard and private TRAPs.
- Support RMON for statistics collection and alarms of various frame types, enabling remote 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 for user verification, providing 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, and consoles.

Technical Specifications

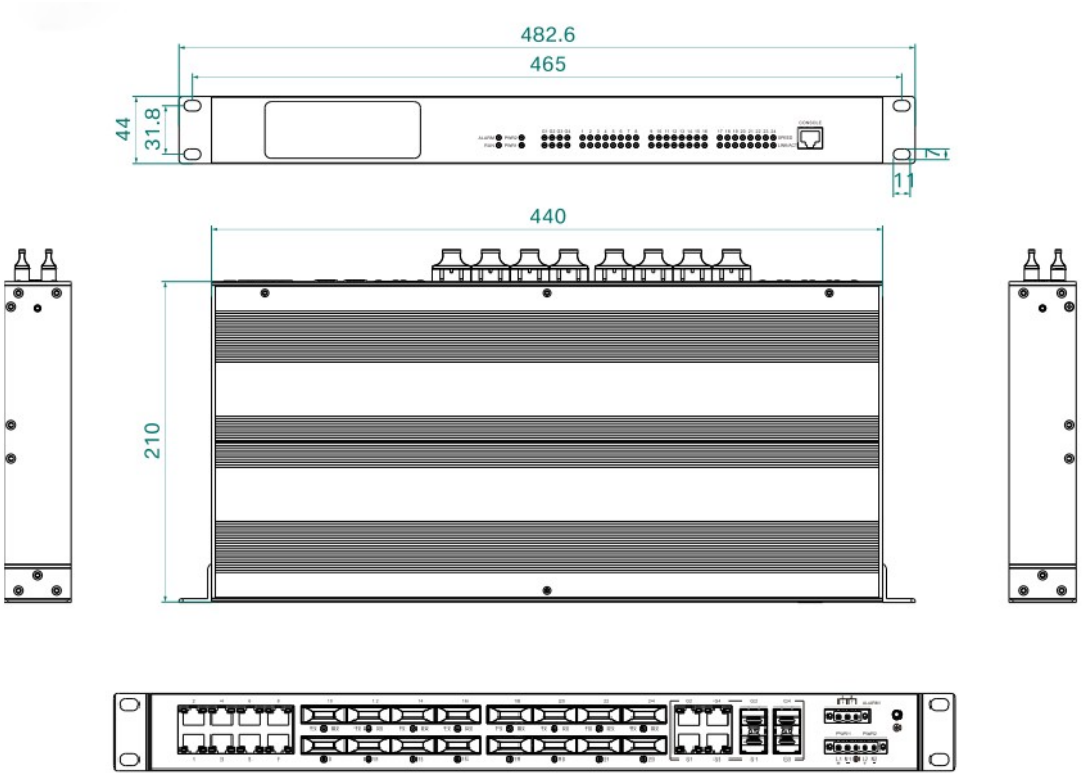
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics Support 802.1Q VLAN, port isolation, and SVL configuration Support MAC address aging and learning limits, static MAC binding, and source MAC filtering
Redundancy	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	12.8Gbps
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
100M Fiber Port	16 x 100 Base-FX fiber ports, SC/FC/ST, the transmission distance supports 1310nm multimode dual-fiber (2km) or 1310nm single-mode duplex fiber (20/40/60/80/100km optional)
100M Copper Port	8 x 10/100 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	AC Model: AC85~264V / DC110~370V, single/dual power inputs optional, overcurrent protection DC Model: DC18~75V, single/dual power inputs optional, anti-reverse connection
Power Consumption	AC Model (@AC220V): < 26W DC Model (@DC48V): < 24W
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 3.5kg
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 (contact discharge ±8kV, air discharge ±15kV) IEC 61000-4-5 (Surge): Level 3 (power port: common mode ±2kV, differential mode ±2kV; Ethernet port: common mode ±6kV, differential mode ±2kV) IEC 61000-4-4 (EFT): Level 4 (power port: ±4kV, Ethernet port: ±2kV)

Dimensions

Unit: mm



Ordering Information

Standard Model	1G Combo Port	100M Fiber Port	100M Copper Port	Input Voltage
CISCOM7028-4GC-16F(M/S)-AD220	4	16	8	Single/Dual AC85~264V / DC110~370V
CISCOM7028-4GC-16F(M/S)-DC24	4	16	8	Single/Dual DC18~75V

Contact Us

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