CISCOM7212-2GF-2F

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

- 2×1G fiber ports, 2×100M fiber ports, and 8×100M copper ports
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP, MRP for network redundancy
- Support DDM digital diagnostic monitoring
- 1×AC85~264V / DC110~370V or 2×DC9~60V power inputs for redundancy
- Aluminum alloy shell, IP40-rated housing protection
- -40°C to +75°C operating temperature range

Product Description

The CISCOM7212-2GF-2F is a 12-port Layer 2 Gigabit managed industrial Ethernet switch designed for DIN-rail installation, offering advanced performance and reliability for critical applications. It features 2× 1G fiber ports, 2×100M fiber ports, and 8 × 100M copper ports, supporting flexible network deployment. Built on a store-and-forward architecture, it delivers strong bandwidth processing, automatic packet error detection, and correction to minimize transmission failures, ensuring stable, efficient, and high-speed communication. Constructed with industrial-grade components, a high-strength aluminum alloy housing, and a 35mm DIN-rail design, it withstands harsh conditions with an operating temperature range of -40°C to +75°C and high-level industrial protection for consistent performance in demanding environments.

The CISCOM7212-2GF-2F offers comprehensive Layer 2 management capabilities, including WEB-based management and support for multiple advanced network protocols such as MW-Ring, ERPS, STP/RSTP, MRP, VLAN, LACP, LLDP, SNMPv1/v2c/v3, QoS, IGMP Snooping, and more. It incorporates security features like 802.1X authentication, TACACS+, ACL, and SSH access control, along with diagnostic and maintenance tools such as port mirroring, static MAC binding, DDM, loopback detection, and remote system upgrades. These functions enhance network efficiency, reliability, and security to meet the requirements of complex industrial networks. Rigorously tested for functionality, temperature endurance, safety, and EMC compliance, the CISCOM7212-2GF-2F is widely deployed in industrial automation, energy systems, intelligent transportation, smart cities, and other mission-critical sectors.

Features and Benefits

- Support storm suppression for broadcast, unknown multicast, and unknown unicast packets, as well as broadcast and multicast packet storm detection to prevent network storms
- Support link static aggregation and LACP dynamic aggregation to increase transmission bandwidth and enhance link reliability
- Support port mirroring to collect data at the port input and output for network monitoring and fault management
- Support 802.1Q VLAN, providing Access, Trunk, and Hybrid interfaces to easily divide multiple broadcast domains and enhance network security
- Support IGMP Snooping, GMRP, and other multicast protocols to reduce multicast data broadcasts in the network and conserve network resources
- Support the LLDP link-layer discovery protocol to obtain LLDP neighbor device information, monitor link status, and facilitate topology management and fault localization
- Support ERPS Ethernet multi-ring protection technology to provide multi-ring networking, perform link backup, achieve rapid convergence, and improve network stability
- Support RSTP (Rapid Spanning Tree Protocol), compatible with STP (Spanning Tree Protocol), to eliminate network loops and improve network reliability
- Support MRP (Media Redundancy Protocol) to enhance network reliability, with reconfiguration time ≤500ms
- Support WEB control, HTTP/HTTPS protocol access control, and login IP address restrictions
- Support SNMPv1/v2c/v3 centralized management and SNMPv1/v2c/v3 TRAP information, supporting State Grid standard TRAP and private TRAP
- Support RMON remote network monitoring, statistics, and alarms for various types of data frames, usable for remote monitoring and management by network management systems
- Support QoS (Quality of Service) to prioritize the transmission of voice, video, and important data within network devices, addressing network congestion
- Support ACL (Access Control List) for customizable frame type filtering rules, enabling filtering or rate limiting of specified packets
- Support 802.1X port authentication for user identity verification, offering local and RADIUS login authentication
- Support TACACS+ clients for user authentication, authorization, and billing, preventing unauthorized user logins and enhancing system security
- Support loopback detection to prevent network loops from causing network storms
- Support system log information recording, downloading, and classification, with output to web pages, log hosts, and consoles for display

Specifications

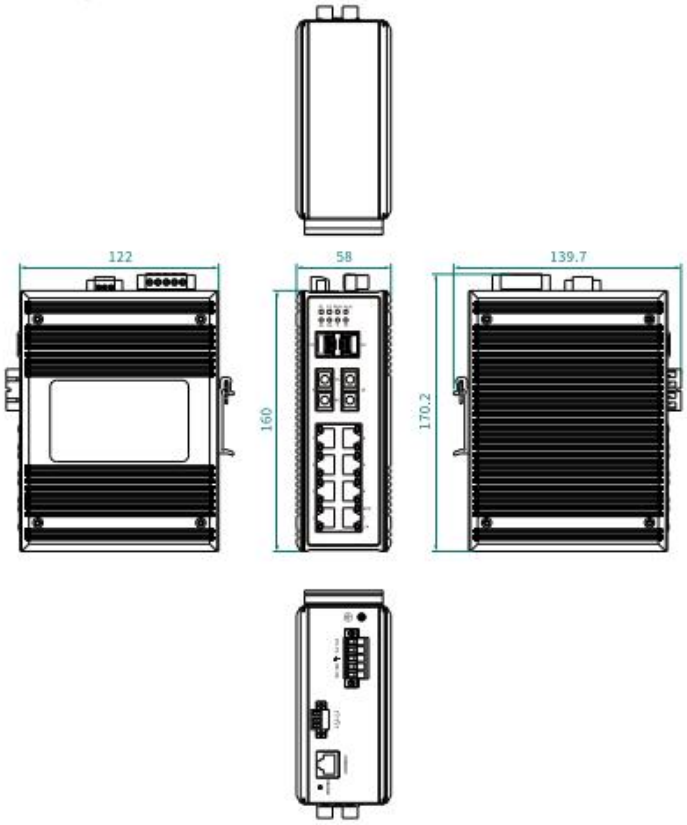
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics Support 802.1Q VLAN, port isolation, and SVL configuration Support MAC address aging and learning limits, static MAC address binding, and source MAC address filtering
Redundancy	Support MW-Ring proprietary ring network technology Support ERPS Support RSTP, compatible with STP Support MRP
Broadcast	Support IGMP Snooping Support static multicast MAC address binding Support unknown multicast filtering Support GMRP
Security Management	Support WEB, TELENT, and SSH access control Support ACL access control lists, 802.1X port authentication, and TACACS+ clients Support loopback detection, network storm/ring status/port alarms, and email logging
Management and Maintenance	Support QoS, SNMP v1/v2c/v3, SNMPv1/v2c/v3 TRAP, RMON, LLDP Support port mirroring, Ping, fiber module DDM, link diagnostics Support user permission management, system logs, local/network time synchronization, daylight saving time Support online reboot, factory reset, system upgrade, 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	2×1000Base-X Gigabit SFP ports, compatible with 100Base-FX
100M Fiber Port	2×100Base-FX 100M fiber ports, with SC/FC/ST interfaces. Transmission distances support 1310nm multi-mode dual-fiber 2km or 1310nm single-mode dual-fiber 20km (with distances of 40/60/80/100km available).
100M Copper Port	8×10/100Base-T(X) auto-sensing 100M RJ45 ports, full/half-duplex, auto MDI/MDI-X
Relay	1×relay alarm output, 3-pin 3.81mm terminal block with lock
Console	1×Console port, RS232 signal RJ45 port, for device debugging
Button	Restore factory settings button
Status LED	Power indicator, operation indicator, alarm indicator, fiber port indicator, copper port speed and connection/activity indicator
Power Supply	
Power Input	DC model: DC9~60V, supports dual power supply redundancy, reverse polarity protection AC model: AC85~264V (47~63Hz) / DC110~370V
Power Consumption	≤7W@DC24V (full load), ≤7.5W@AC220V (full load)
Connection	5-pin 5.08mm terminal block with lock
Physical Characteristics	
Dimensions	160×58×122mm (excluding DIN rail & connectors)
Installations	Easy installation on 35mm DIN rails

Enclosure Protection	Aluminum alloy housing, IP40 protection rating
Weight	About 0.89 kg (DC), 0.95 kg (AD)
Working Environment	
Operating Temp	-40°C ~+75°C
Storage Temp	-40°C~+85°C
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	100M Fiber Port	100M Copper Port	Input Voltage
CISCOM7212-2GF-2F(M/S)	2	2	8	Dual DC9~60V
CISCOM7212-2GF-2F(M/S)-AD220	2	2	8	Single AC 85~264 V / DC 110~370 V

Contact Us

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