CISCOM7209-3GF

9-port Layer 2 Gigabit Managed DIN Rail Industrial Ethernet Switch

- 3 × Gigabit SFP ports, 6 × 10/100Base-T(X) ports (RJ45 connector)
- Support ring redundancy protocols such as MW-Ring v1/v2, ERPS, STP/RSTP to enhance network reliability
- Fast ring redundancy less than 20ms (MW-Ringv1/v2) to improve system communication reliability
- Support single AC 85V~264V/DC110~370V power supply or dual DC 9V~60V power input optional
- With IP40 high-strength aluminum alloy casing and fanless design, the device can reliably operate in harsh environment ranging from -40°C to +85°C

Product Description

CISCOM7209-3GF series is layer 2 Gigabit managed DIN rail industrial Ethernet switch. It supports 3×Gigabit SFP ports and 6×10/100Base-T(X) RJ45 ports. The switch uses a store-and-forward mechanism, providing powerful bandwidth processing capabilities, automatic error detection in data packets, reducing transmission failures, and easily supporting Gigabit networking to ensure stable, reliable and efficient data transmission.

The product is constructed using industrial-grade components and adheres to high-standard system design and production controls. It supports standard 35mm DIN rail mounting and features a high-strength aluminum alloy housing and fanless for heat dissipation. It can operate in a wide temperature ranging from -40°C to +85°C, and it complies with high-standard industrial protection design, making it suitable for various challenging working environments and ensuring stable communication performance.

CISCOM7209-3GF series support WEB management functions and multiple network protocols, including MW-Ringv1/v2, ERPS, STP/RSTP, VLAN, LACP, LLDP, SNMPv1/v2c/v3, QoS, 802.1X, IGMP snooping, WEB access control, static aggregation, port mirroring, static MAC address binding, network diagnostics, email logs, alarms, SNTP, system logs, and online system upgrades. These features enhance network performance, reliability, and security, meeting the demands of complex networks. The product undergoes rigorous testing for functionality, temperature resistance, safety, and EMC compliance, making it suitable for complex network and harsh industrial environment applications. It can be widely applied in various fields, including comprehensive energy, smart cities, rail transportation, intelligent traffic, smart factories, and industrial automation.

Product Features

- Support rate limiting for broadcast, multicast, and unknown unicast packets, as well as detection of broadcast and multicast packet storms to prevent network storms
- Support Quality of Service (QoS) to prioritize voice, video, and critical data transmission on network devices, addressing network congestion
- Support 802.1Q VLAN, providing Access, Trunk, and Hybrid interfaces for easy segmentation of multiple broadcast domains, enhancing network security
- Support IGMP snooping to establish a Layer 2 multicast forwarding table, reducing multicast data broadcasting in the network and conserving network resources
- Support LLDP (Link Layer Discovery Protocol) for monitoring link status, facilitating topology management, and fault localization by obtaining information about neighboring LLDP devices
- Support ERPS (Ethernet Ring Protection Switching) to provide multiple ring network configurations, link backup, rapid convergence, and improved network stability
- Support static link aggregation and dynamic LACP (Link Aggregation Control Protocol) for increased transmission bandwidth and improved link reliability
- Support RSTP (Rapid Spanning Tree Protocol), compatible with STP (Spanning Tree Protocol), to eliminate network loops and enhance network reliability
- Support WEB control with HTTP and HTTPS protocol access control, including IP address restrictions
- Support 802.1X port authentication for user identity verification during access, providing both local and RADIUS login authentication
- Support centralized management and SNMPv1/v2c/v3 TRAP information for SNMPv1/v2c/v3
- Support alarm functionality, including alerts for dual power supply failure, network storms, port disconnection, and ring network status
- Support port statistics for counting different types of transmitted and received data frames, enabling port traffic monitoring
- Support port mirroring for capturing data at port ingress and egress points, useful for network diagnostics and fault management
- Support system log information recording, downloading, and categorization, with output available through WEB pages, log hosts, and consoles

Technical Specifications

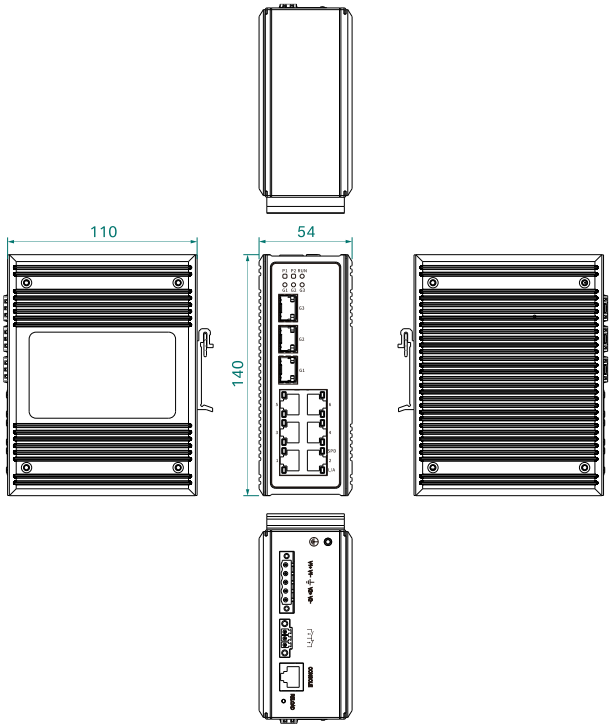
Software	
Switching	Support port configuration, speed configuration, storm detection, port aggregation, LACP (Link Aggregation Control Protocol), and port statistics. Support 802.1Q VLAN. Support MAC address aging and static MAC address binding
Redundancy	Support MW-Ringv1/v2 proprietary ring network technology Support ERPS (Ethernet Ring Protection Switching) Support RSTP (Rapid Spanning Tree Protocol) and compatible with STP (Spanning Tree Protocol)
Multicast	Support IGMP snooping Support static multicast MAC address binding
Security Management	Supports WEB access control Supports 802.1X port authentication Supports alarms and email logs
Management and Maintenance	Supports QoS (Quality of Service), SNMP v1/v2c/v3, SNMPv1/v2c/v3 TRAP, LLDP (Link Layer Discovery Protocol) Supports port mirroring and ping Supports user privilege management, system logs, local/network time synchronization, and daylight-saving time (DST) Supports online reboot, factory reset, system upgrades, and configuration file upload/download
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	7.6Gbps
Buffer Size	1Mbit
MAC Table Size	8K
Interface	
1G Fiber Port	3 × 1000Base-X Gigabit SFP ports

100M Copper Port	7 × 10/100Base-T(X) auto-sensing RJ45 ports, support full/half duplex and auto MDI/MDI-X
Relay	1 relay alarm output with 3-pin 3.81mm spaced locking terminal connectors
CONSOLE	1 console port with RS232 signal on a RJ45 connector, used for device debugging
Status LED	Power indicator, operation indicator, interface indicator, and Ethernet port speed indicator
Power Supply	
Input Voltage	DC model: Dual DC9V~ 60V power input, no polarity AC model: Single AC85V~264V/DC110V~370V power supply
Power Consumption	<6W@DC24V (full load)
Connection	5.08mm pitch 5-pin terminal block
Physical Characteristics	
Dimensions	140 × 54 × 110 mm (DIN rail mounting clip excluded)
Installations	Easy installation on 35mm DIN rails
IP Code	IP40
Weight	0.61kg
Working Environment	
Operating Temp	-40℃~+85℃
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 ※Ethernet ports support 6kV surge protection IEC 61000-4-4 (EFT): Level 4
Certification	CE, FCC, RoHS

Dimensions

Unit: mm

CISCOM7209-3GF



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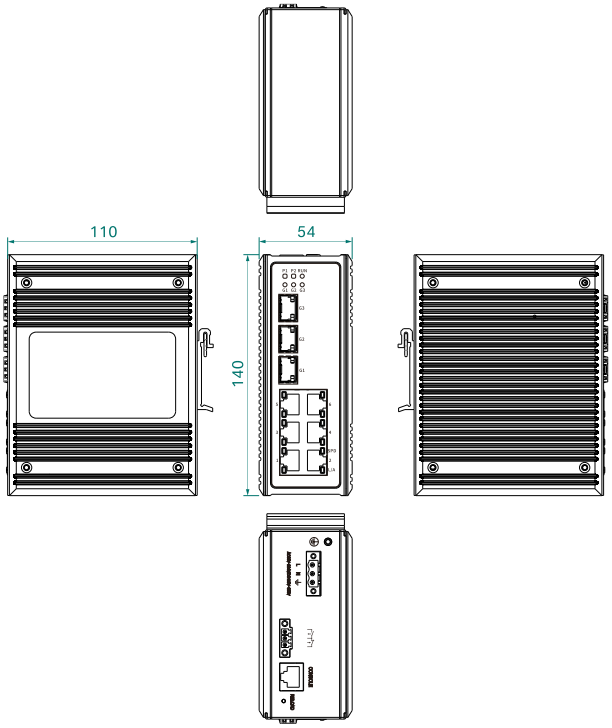

Ordering Information

Standard Model	1G Fiber Port	10/100M Copper Port	Input Voltage
CISCOM7209-3GF	3	6	Dual DC9V~60V power input
CISCOM7209-3GF-AD220	3	6	Single AC85V~264V/DC110~370V power supply

Contact Us

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