CISCOM7020G-4GC-16GT

20-Port Gigabit Rack Mount Layer 2 Managed Industrial Switch



- 4 x Gigabit combo ports, 16 x 10/100/1000Base-T(X) RJ45 ports
- Support ring network redundancy protocols such as MW-Ring, ERPSv1/v2, STP/RSTP, MRP
- Fast Ring Redundancy (MW-Ring) <20ms
- Support single/dual AC85V~264V/DC110V~370V power input, support dual power redundancy
- High strength aluminum alloy shell, IP40-rated housing protection, fanless heat dissipation
- Working in the harsh industrial environments of -40 ℃~+75 ℃

Product Description

The CISCOM7020G-4GC-16GT is a 20-port Layer 2 gigabit managed industrial Ethernet switch featuring 4 x combo gigabit fiber/copper ports and 16 x gigabit copper ports. With a store-and-forward switching mechanism and strong bandwidth processing capability, it ensures stable, efficient, and reliable data transmission by automatically detecting and correcting packet errors. Designed for harsh industrial environments, it adopts industrial-grade components and high-standard design practices, with a rugged 19-inch 1U rack-mounted aluminum alloy housing, fanless heat dissipation, and a wide operating temperature range of -40°C to +75°C to guarantee long-term dependable performance.

This switch offers comprehensive management via WEB and supports a wide range of network protocols such as MW-Ring, ERPS, STP/RSTP, MRP, VLAN, SVL, LACP, LLDP, SNMP v1/v2c/v3, RMON, QoS, ACL, IGMP Snooping, and 802.1X authentication. Advanced features like access control, port mirroring, MAC binding, network diagnostics, SNTP, and remote upgrades are also included to enhance control, security, and diagnostics. Rigorously tested for function, thermal resilience, safety, and EMC, the CISCOM7020G-4GC-16GT is an ideal solution for complex and critical industrial network deployments across smart cities, energy systems, transportation, automation, and smart factory scenarios.

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 on the network 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, link backup, rapid convergence, and improved network stability.
- Support the RSTP spanning tree protocol, compatible with STP, to eliminate network loops and improve network reliability.
- Support MRP media redundancy protocol, improving network reliability and achieving a reconfiguration time of ≤ 500ms.
- 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, generating 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 filter rules for multiple frame types, filtering or rate limiting specific packets.
- Support 802.1X port authentication for user authentication, providing local and RADIUS login authentication.
- Support TACACS+ client for user authentication, authorization, and accounting, 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, which can be output to WEB pages, log hosts and consoles for display.

Technical Specifications

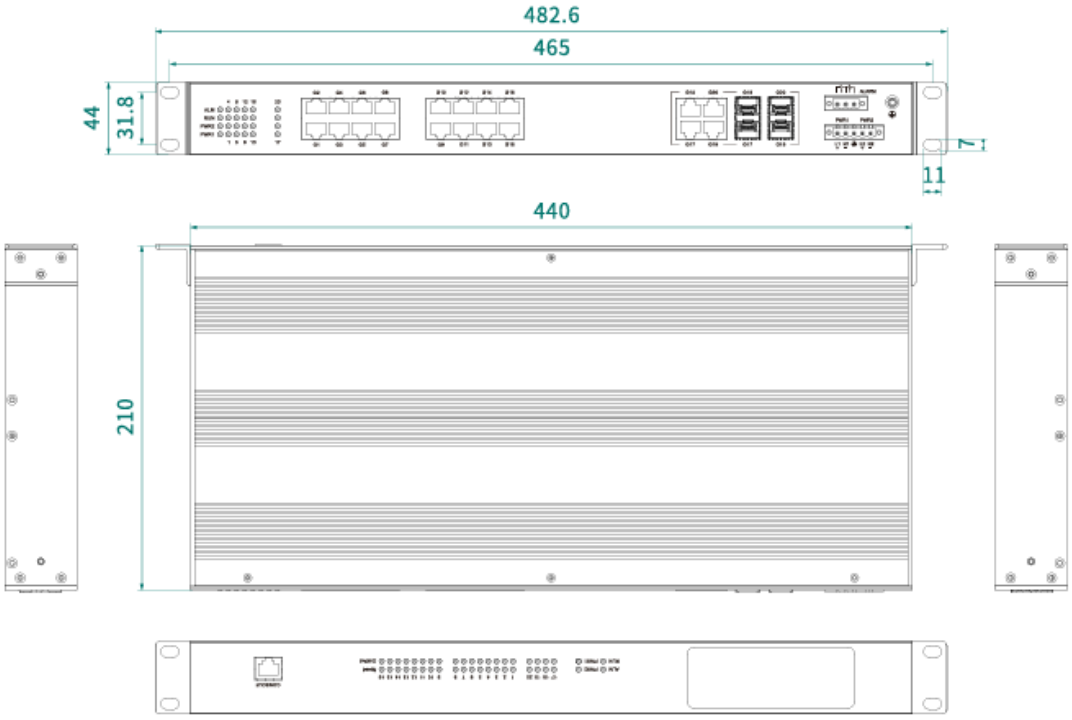
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics. Support 802.1Q VLAN, port isolation, and SVL configuration. Support MAC address aging and learning limits, static MAC address binding, and source MAC address filtering.
Redundant	Support MW-Ring proprietary ring network technology Support ERPS Support RSTP/STP Support MRP
Multicast	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 link diagnostics. Support user permission management, system logs, SNTP client, and daylight saving time. 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 Combo Port	4 x 1G combo ports, work as 10/100/1000Base-T (X) auto sensing Gigabit RJ45 ports or 1000Base-X Gigabit SFP orts, support full/half duplex, auto MDI/MDI-X
1G Copper Port	16 x 10/100/1000Base-T(X) auto-sensing Gigabit RJ45 port, support full/half duplex, auto MDI/MDI-X
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	
Input Voltage	AC85V~264V/DC110V~370V, single/dual power inputs optional
Power Consumption	<20W@AC220V (full load)
Connection	5-pin 5.08mm terminal block
Physical Characteristics	
Dimensions	482.6 × 44 × 210 mm (Including mounting brackets)
Installations	Standard 19-inch 1U rack-type mount
IP Code	IP40; Aluminum alloy shell
Weight	About 2.8 kg
Working Environment	
Operating Temperature	-40℃~+75℃
Storage Temperature	-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
Certificate	CE, FCC, RoHS

Dimensions

Unit: mm



Ordering Information

Standard Model	1G Combo Port	1G Copper Port	Power Input
CISCOM7020G-4GC-16GT-AD220	4	16	AC85~264V/DC110~370V Power Input
CISCOM7020G-4GC-16GT-2AD220	4	16	AC85~264V/DC110~370V Redundant Power Inputs

Contact Us

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