MISCOM7020G-4GC-16GT

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

- 4*1G combo ports, 16*1G copper ports
- Support ring network redundancy protocols such as MW-Ring, ERPSv1/v2, STP/RSTP to improve network reliability
- Fast Ring Redundancy (MW-Ring) <20ms enhances the reliability of system communication
- Support single/dual AC85~264V/DC110~370V power input, support dual power redundancy
- High strength aluminum alloy shell, IP40 protection level, fanless heat dissipation, can reliably work in harsh industrial environments of -40 ℃~+75 ℃

⬙ Product Description

MISCOM7020G-4GC-16GT layer 2 network managed rack mount industrial switch supports 4*1G combo ports and 16*1G copper ports. It adopts a storage and forwarding mechanism and has strong bandwidth processing capabilities, supports automatically troubleshooting data packet errors, to reduce transmission failures. The product uses industrial grade components, combined with high standard system design and production control. The high strength durable aluminum alloy shell and -40℃ ~ + 75℃ wide temperature durability enable the switch to work in a variety of harsh working environment.

The MISCOM7020G-4GC-16GT series can be managed through WEB or SNMP network management. It also provides a series of common advanced management functions, including MW-Ring, ERPS, STP / RSTP, VLAN, LLDP, RMON, ACL, QoS, 802.1X, IGMP snooping, rate control, port aggregation, port mirroring, static MAC address forwarding, network diagnosis, loopback detection, Email / Relfault alarm and firmware online upgrade. The products can be widely used in comprehensive energy, smart city, rail transit, intelligent transportation, smart factory, industrial automation and other fields.

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✪ Features and Benefits

- Support broadcast, unknown multicast and unknown unicast rate limit to prevent broadcast storm
- Support link static aggregation, which can increase transmission bandwidth and improve link reliability
- Support port mirroring, to collect data from port ingress and egress for network detection and fault management
- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interface, easy to divide broadcast domains, enhance the security of the network
- Support IGMP snooping, establish layer 2 multicast forwarding table to reduce the broadcast of multicast data in the network
- Support LLDP protocol, obtain LLDP neighbor device information, conduct link status monitoring, facilitate topology management and fault location
- Support ERPSv1/v2 Ethernet multi-ring protection technology, provide multi-ring networking, link backup, achieve fast convergence
- Support RSTP protocol, compatible with STP protocol, eliminate network loop, improve network reliability
- Support SNMPv1/v2c/v3 and SNMPv1/v2c/v3 TRAP
- Support RMON remote network monitoring, make statistics and alarm of various types of data frames, and can be used for remote monitoring and management of network management system
- Support QoS, give priority to voice, video and important data in network devices, and solve network congestion
- Support ACL access control list, filter TCP/UDP messages based on source/destination IP and MAC address
- Support 802.1X port authentication, to authenticate the users, and provides local and RADIUS login authentication
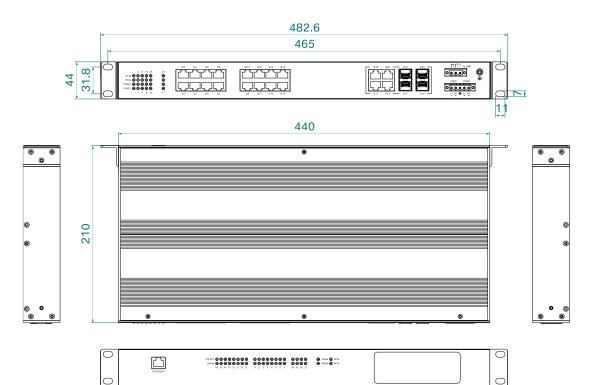- Support loopback detection to prevent the network storm

Specifications

Software

Switching	Support ports configuration, such as port rate, duplex mode, flow control, maximum transmission unit, etc Support 802.1Q VLAN, port isolation Support port speed limit, storm suppression, static port convergence, port statistics Support for MAC address aging, static MAC address binding
Redundant	Support for MW-Ring v1 / v2 private ring network technology Support for ERPSv1 / v2 RSTP is supported, and STP is compatible
Multicast	Support IGMP snooping Static multicast MAC address binding is supported
Security Management	Support WEB, TELNET, and SSH control Support ACL, data filtering of L2-L4 layer Support for 802.1X port authentication Support the relay alarm, Email log Support loopback detection
Management and Maintenance	Support QoS quality of service, SNMP v1 / v2c / v3, SNMP Trap, RMON, LLDP Support port mirroring, Ping Support user rights management, system log, NTP client Support online restart, restore factory Settings, system upgrade, configuration file upload / download Support unified upper-level computer software management

Switch Capability

Processing Type	Store and forward
Backboard Bandwidth	56Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K

Interface

1G Combo Port	4*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 *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

☑☰ Specifications

Status LED	Power indicator, operation indicator, alarm indicator, interface rate and connection / active status indicator
Power	
Input Voltage	AC85~264V/DC110~370V, single / dual power supply 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
Weight	About 2.8 kg
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 *copper ports support 6kV surge protection IEC 61000-4-4(EFT): Level 4
Certificate	CE, FCC, RoHs

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⬇ Dimension

Unit: mm

Ordering Information

Standard Model	1000M Combo Port	1000M Copper Port	Power Input
MISCOM7020G-4GC-16GT-AD220	4	16	AC 85~264V / DC110~370V
MISCOM7020G-4GC-16GT-2AD220	4	16	Dual AC85~264V / DC110~370V

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