

# MISCOM7028-4GC Switch Series

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



- Come in 4×1G Combo ports, 4/8/16×100M fiber ports and 20/16/8× 100M copper ports varieties
- Support redundancy protocols like MW-Ring, ERPSv1/v2, STP/RSTP for ring network reliability
- MW- Ring allows networks to recover within 20 ms
- Support DDM to monitor SFP temperature, voltage, current, etc.,
- Support AC85~264V/DC110~370 AC/DC input or SC18~75V DC power input is optional
- High strength aluminum alloy shell, IP40 protection grade
- Fanless design, case heat dissipation
- Work in -40°C ~ + 75°C harsh industrial environment





## Product Description

MISCOM7028-4GC switch series contains multiple Layer 2 managed rack-mount industrial Ethernet switches, equipped with 4 Gigabit Combo ports, 4/8/16×100M fiber ports and 20/16/8×100M copper ports. The industrial switches adopt store-and-forward mechanism, have powerful bandwidth processing capability, automatically troubleshoot packet errors, reduce transmission failures, and can easily support Gigabit networking, ensuring stable, reliable and efficient data transmission. Through strictly selection, these layer 2 managed switches picks industrial-grade components, with high standards of system design and production control, rack-mounted aluminum alloy shell, rugged, fanless design, case heat dissipation, -40 °C ~ +75 °C wide temperature operation, high standards of industrial protection design, which can adapt to a variety of harsh operating environments.

MISCOM7028-4GC Series can be managed via WEB or SNMP, while providing MW-Ring, ERPSv1/v2, STP/RSTP, VLAN, LLDP, RMON, ACL, QoS (Quality of Service), 802.1X, IGMP Snooping, WEB/ TELNET/ SSH control, port aggregation, port mirroring, static MAC address forwarding table, network diagnostics, loopback detection, Email logging, relaying, and other network features. The network switches can be widely used in comprehensive energy, intelligent city, intelligent transportation, intelligent factory, industrial automation and other industrial fields.



## Features and Benefits

- Support rate limiting of packets from broadcast, multicast and unknown unicast, and storm detection of broadcast and multicast packet
- Support link static aggregation and LACP, to increase bandwidth and link reliability
- Support port mirroring for network monitoring and troubleshooting based on ingress and egress traffic
- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interface for multiple broadcast domains
- Support IGMP Snooping, build Layer 2 multicast forwarding table to prevent multicast data from broadcasting
- Support Link Layer Discovery Protocol (LLDP), to gather hardware information about neighboring devices for link monitoring, to manage topology and fault locating
- Support ERPSv1/v2, providing multi-ring networking for link backup, fast convergence and improved network stability
- Support Rapid Spanning Tree Protocol (RSTP), compatible with STP, eliminate loops in network
- Support SNMPv1/v2c/v3 central management and SNMPv1/v2c/v3 TRAP information
- Support Remote Network Monitoring (RMON), to calculate and alert of various data frames
- Support QoS to manage quality and determine the priority of data traffic transmission on a network
- Support ACL access control list, filter TCP/UDP/ICMP/IGMP packets based on source/target IP/MAC address
- Support 802.1X port-based authentication, provide RADIUS and local account authentication
- Support loopback detection to detect loops before a network storm occurs, avoiding the risk and inconvenience of traffic disruption



## Specification

Software	
Switching	Support port configuration, port configuration, traffic suppression, storm control, storm detection, port aggregation, LACP, port statistics Support 802.1Q VLAN, port isolation Support MAC address aging, static unicast
Redundancy	Provide Maiwe private ring network technology like MW-Ring/ MW-RingV2 Support ERPSv1/v2 Support RSTP, compatible with STP
Multicast	Support IGMP Snooping Support for static multicast MAC address binding
Security Management	Support WEB, TELNET, SSH control Support ACL (access control list), 802.1X authentication Support loopback detection, relay alert, Email log
Management and Maintenance	Support QoS, SNMP v1/v2c/v3, SNMPv1/v2c/v3 Trap, RMON, LLDP Support port mirroring, Ping, DDM Support user permission management, system log, SNTP client Support online restart, factory reset, system upgrade, configuration file upload/download Support central management of master computer software
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	12.8Gbps
Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	
1G Combo Port	4×1G Combo ports, work in 10/100/1000Base-T(X) auto-sensing RJ45 or 1000Base-X SFP mode, copper port supports full/half duplex, and auto MDI/MDI-X
100M Fiber Port	4/8/16×100Base-FX fiber ports, SC/FC/ST connector, multimode/single mode
100M Copper Port	20/16/8×10/100Base-T(X) auto-sensing RJ45 ports, full/half duplex, auto MDI/MDI-X
Relay	1 relay alert output, 5.08mm pitch 3-PIN terminal block
CONSOLE	1* CONSOLE, RS-232 serial port with an RJ-45 connector
Status LED	Power, running status, alarm, port rate, connection/activity



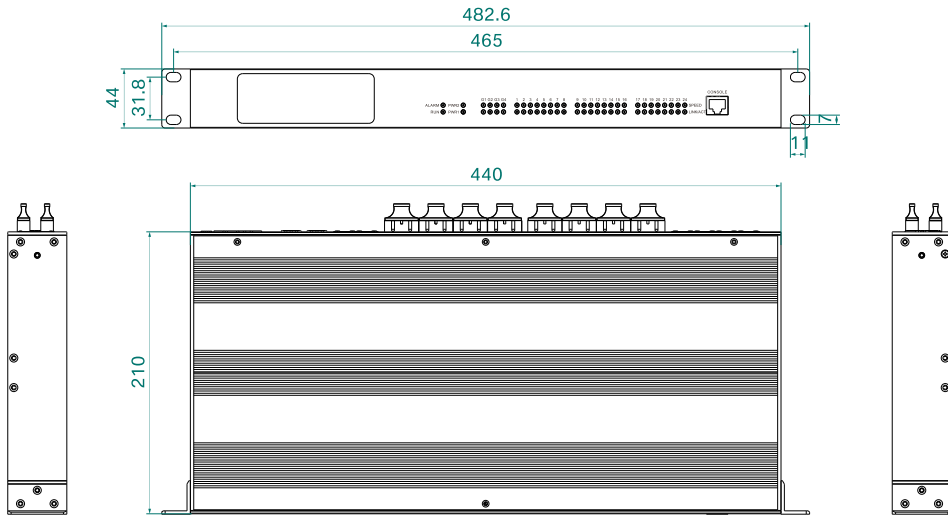
## Specification

Power Supply	
Input Voltage	AC models: AC85~264V or DC110~370V, built-in overcurrent protection DC models: DC18~75V, reverse polarity protection
Power Consumption	AC models(@AC220V): <15W(4F), <17W(8F), <26W(16F) /full load DC models(@DC48V): <12W(4F), <15W(8F), <24W(16F) /full load
Connection	5.08mm pitch 5-PIN terminal blocks with lock mechanism
Physical Characteristics	
Dimensions	482.6×44×210 mm (mounting brackets included)
Installations	19inch 1U Rack mount
IP Code	IP40
Weight	3.1kg(4F models), 3.2kg(8F models), 3.5kg(16F models)
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 IEC 61000-4-5(Surge): Level 4 *copper ports support 6kV surge protection IEC 61000-4-4(EFT): Level 4
Certification	CE, FCC, RoHS

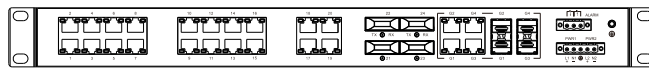


## Dimensions

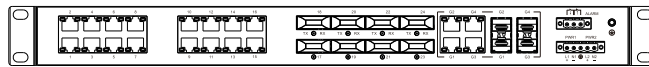
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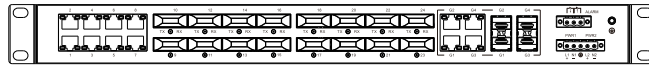
MISCOM7028-4GC-4F:



MISCOM7028-4GC-8F:



MISCOM7028-4GC-16F:





## Ordering Information

Standard Model	1G Combo Port	10/100M Fiber Port	10/100M Copper Port	Input Voltage
MISCOM7028-4GC-4F (M/S)-AD220	4	4	20	Single AC85~264V or DC110~370V (dual power supply version available)
MISCOM7028-4GC-8F (M/S)-AD220	4	8	16	
MISCOM7028-4GC-16 F(M/S)-AD220	4	16	8	
MISCOM7028-4GC-4F (M/S)-DC24	4	4	20	Single DC18~75V (dual power supply version available)
MISCOM7028-4GC-8F (M/S)-DC24	4	8	16	
MISCOM7028-4GC-16 F(M/S)-DC24	4	16	8	



## Contact Us

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