MISCOM6024 Series

24-Port Rack Mount Layer 2 Managed Industrial Ethernet Switch

- 4/8/16*100Base-FX fiber ports and 20/16/8*10/100Base-T(X) copper ports
- Support ring redundancy protocols such as MW-Ring, ERPSv1/v2, STP/RSTP, etc. to improve network reliability
- Fast Ring Redundancy (MW-Ring) <20ms enhances the reliability of system communication
- Support dual AC85~264V/DC110~370V power input, or dual DC18~75V power input options, support dual power redundancy
- High strength metal shell, IP40 protection, fanless for heat dissipation, can reliably work in harsh industrial environments of -40 ℃~+75 ℃

Product Description

The MISCOM6024 series layer 2 managed rack mount industrial Ethernet switch supports 4/8/16*100Base-FX fiber ports and 20/16/8*10/100Base-T(X) copper ports. It adopts the storage and forwarding mechanism and has strong bandwidth processing capabilities, automatically troubleshooting data packet errors, reducing transmission failures, and easily supporting 100Mbps networking to ensure stable, reliable, and efficient data transmission. The product uses industrial grade components, combined with high standard system design and production control. The metal shell is sturdy and durable, with a fanless design for shell heat dissipation. It operates at a wide temperature range of -40 ℃ to+75 ℃, with a high standard industrial protection design, and can adapt to various harsh working environments with stable communication performance.

The MISCOM6024 series can be managed through WEB or SNMP network management, while providing a series of commonly used advanced management functions such as MW-Ring, ERPS, STP/RSTP, VLAN,

LLDP, RMON, ACL, QoS of Service, 802.1X, IGMP Snooping, WEB/TELNET/SSH control, port aggregation, port mirroring, static MAC address forwarding, network diagnosis, loopback detection, email/delay fault alarm, and firmware online upgrade. The product can be widely used in industrial fields such as comprehensive energy, smart cities, intelligent transportation, smart factories, and industrial automation.

Features and Benefits

- Support rate limits for broadcast, unknown multicast, and unknown unicast packets, detect broadcast and multicast packet storms, and prevent broadcast storms
- Support link static aggregation and LACP dynamic aggregation, which can increase transmission bandwidth and improve link reliability
- Support port mirroring and collects data from port egress and ingress for network detection and fault management
- Support ports statistics to count different types of data frames sent and received to realize the monitoring of port traffic
- Support 802.1Q VLAN, provide Access, Trunk, Hybrid interface, easy to divide multiple broadcast domain, enhance the security of the network
- Support the MAC address table and the aging time limit, and the static unicast / multicast MAC address is bound with the interface, to ensure the use of legitimate users
- Support IGMP Snooping, establish two-layer multicast transfer publication, reduce the broadcast of multicast data in the network, save network resources
- Support LLDP link layer discovery 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, improve network stability
- Support RSTP protocol, compatible with STP protocol, can eliminate network loop, improve network reliability
- Support WEB control, HTTP, HTTPS protocol access control, login IP address restrictions
- Support TELNET and SSH access control, SSH can provide secure remote login to ensure data integrity and reliability
- Support SNMPv1 / v2c / v3 centralized management and SNMPv1 / v2c / v3 TRAP information, support state grid standard 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, filtering of TCP / UDP / ICMP / IGMP messages based on source / destination IP and MAC address
- Support 802.1X port authentication, authenticates the access users, and provides local and RADIUS login authentication

- Support relay alarm for network storm, power drop, port drop and other alarm information
- Support loopback detection to prevent the network from ring and causing a network storm
- Support user permission management
- Support system logging of WEB, LINK, CONFIG, AUTH, STORM, RING, SNMP, SYS, and support remote monitoring of log host and regular sending of log mail

Technical Specifications

Software	
Switching	Support port 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, storm detection, static port convergence, dynamic convergence LACP Support MAC address aging, static unicast MAC address binding
Redundancy	Support MW-Ring/MW-RingV2 private ring network technology Support ERPSv1/v2 Support RSTP and compatible to STP
Broadcast	Support IGMP Snooping Support static multicast MAC address binding
Security Management	Support WEB, TELENT, and SSH control Support ACL and filtering data on the L2-L4 layer Support 802.1X port authentication Support the relay alarm, Email log Support ring detection
Management and Maintenance	Support QoS, 802.1P/ DSCP / port priority mapping, absolute and versus priority control Support SNMP v1/v2c/v3, SNMPv1/v2c/v3 Trap, RMON, LLDP Support port mirroring, Ping Support user rights management, system log, NTP client Support online restart, factory reset, system upgrade, configuration file upload / download Support unified upper computer software management
Switch Capability	
Processing Type	Store-and-forward
Backplane Bandwidth	12.8Gbps
Cache Size	4.1Mbit
MAC Table Size	8K

Technical Specifications

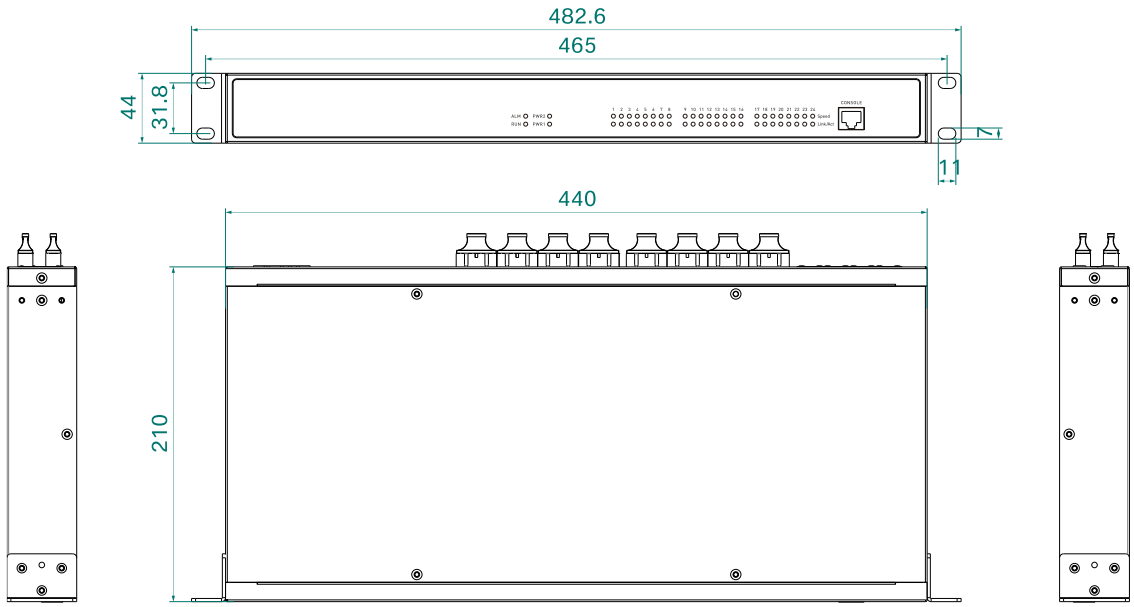
Interface	
Fiber Port	4/8/16*100Base-FX fiber ports optional, support SC/FC/ST connector, multi-mode/single mode
Copper Port	20/16/8*10/100Base-T (X) auto-sensing RJ45 ports optional, support full/half duplex mode, auto MDI / MDI-X connection
Relay	1*relay alarm output, 3-pin 5.08mm terminal block
CONSOLE	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 / activity indicator
Power Supply	
Power Input	DC model: DC18~75V, dual power redundancy AC model: AC 85~264V or DC110~370V, dual power redundancy
Power Consumption	＜16.5W@AC220V
Connection	5-pin 5.08mm terminal block
Protection	Over current protection
Physical Characteristics	
Dimension	482.6×44×210mm (including mounting brackets)
Installation	Standard 19-inch 1U rack mount
IP Code	IP40
Weight	About 2.9kg
Working Environment	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃
Ambient Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2(ESD): Level 4 IEC 61000-4-5(Surge): Level 4 (Network port 6kV lightning protection) IEC 61000-4-4(EFT): Level 4

Technical Specifications

Certification	CE, FCC, RoHS

Dimensions

Unit: mm



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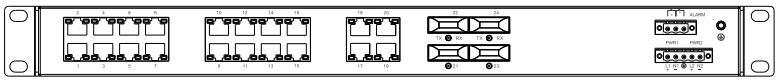

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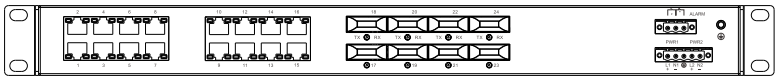

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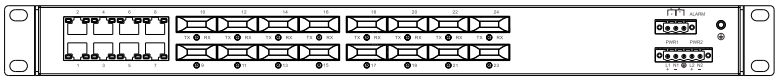

Ordering Information

Standard Model	100M Fiber Port	100M Copper	Power Input
MISCOM6024-4F(M/S) -2DC24	4	20	Dual DC18~75V
MISCOM6024-8F(M/S)-2DC24	8	16	
MISCOM6024-16F(M/S)-2DC24	16	8	
MISCOM6024-4F(M/S)-2AD220	4	20	Dual AC85~264V or DC110~370V
MISCOM6024-8F(M/S)-2AD220	8	16	
MISCOM6024-16F(M/S)-2AD220	16	8	

Contact Us

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