

CISCOM6024-4F

24-Port Layer 2 Managed Rack Mount Industrial Ethernet Switch



- 4×100M fiber ports, 20×100M copper ports
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP, MRP for network redundancy
- Support AC 85~264V / DC 110~370V power input, or DC 18~72 V DC power input
- High strength metal casing, IP40-rated housing protection, fanless design
- -40 to 75°C operating temperature range

Product Description

CISCOM6024-4F is a 24-port Layer 2 100M managed rack mount industrial Ethernet switch, equipped with 4×100M fiber ports and 20×100M copper ports. It utilizes a store-and-forward, boasting powerful bandwidth handling capabilities, automatically troubleshooting errors, and reducing transmission failures. It easily supports 100M networking, ensuring stable, reliable, and efficient data transmission. Utilizing carefully selected industrial-grade components and rigorously designed and manufactured with high-standard system packet rack design mechanism and production control, it features a standard 19-inch 1U rack-mountable form factor. Its durable, high-strength metal casing and fanless heat dissipation allow for wide operating temperature ranges from -40°C to +75°C, along with high-standard industrial protection, ensuring stable communication performance in a variety of harsh operating environments.

CISCOM6024-4F supports web-based network management functions and multiple network protocols, including MW-Ring, ERPS, STP/RSTP, MRP, VLAN, SVL, LACP, LLDP, SNMPv1/v2c/v3, RMON, QoS, 802.1X, TACACS+, IGMP Snooping, GMRP, ACL, WEB/TELNET/SSH access control, static aggregation, port mirroring, static MAC address binding, network diagnostics, loopback detection, link diagnostics, email logging, alarms, SNTP, system logging, and online system upgrades. These features enhance network performance, reliability, and security, meeting the demands of diverse and complex networks. These products have undergone rigorous functional, temperature, safety, and EMC testing to meet the demands of complex networks and harsh industrial environments. They are widely applicable in integrated energy, smart cities, rail transit, intelligent transportation, smart factories, and industrial automation.

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 easily divide multiple broadcast domains and enhance network security.
- Support multicast protocols such as IGMP Snooping and GMRP to reduce multicast data broadcasts and conserve network resources.
- Support LLDP link discovery layer protocol 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 and link backup, achieving rapid convergence and improving network stability.
- Support the RSTP, compatible with STP, to eliminate network loops and improve network reliability.
- Support the MRP media redundancy protocol to improve network reliability and achieve reconfiguration time of $\leq 500\text{ms}$
- 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, including standard TRAP and proprietary TRAP
- Support RMON remote network monitoring, generating statistics and alarms for various data frame types, which can be used for 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 multiple frame type filtering rules to filter or rate-limit specific packets
- Support 802.1X port authentication for user authentication, providing local and RADIUS login authentication
- Supports TACACS+ clients, authenticates and authorizes users, charges users, prevents illegal users from logging in, and enhances system security
- Support loopback detection to prevent network loops and network storms
- Support system log information recording, downloading, and classification, which can be output via the web page, log host, and console

Technical Specifications

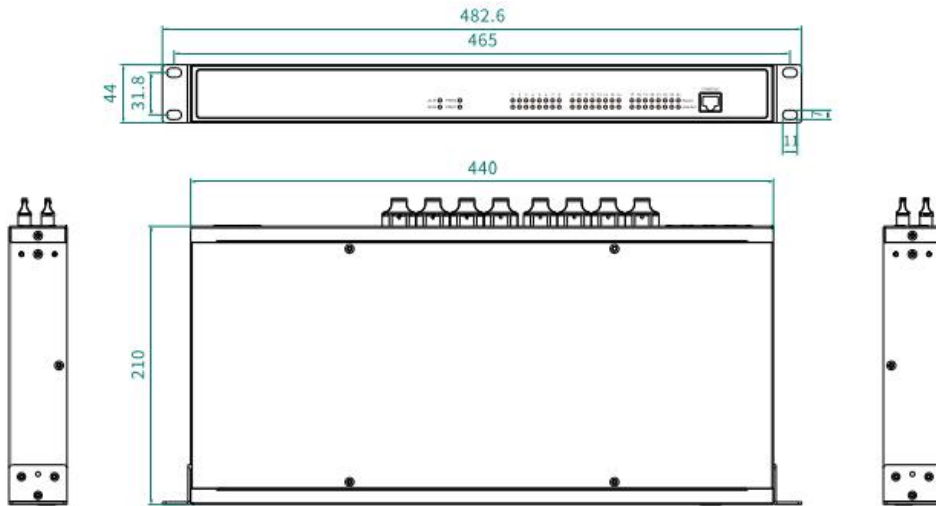
Software	
Switching	<p>Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics</p> <p>Support 802.1Q VLAN, port isolation, and SVL configuration</p> <p>Support MAC address aging and learning limits, static MAC address binding, and source MAC address filtering</p>
Redundancy	<p>Support MW-Ring proprietary ring network technology</p> <p>Support ERPS</p> <p>Support RSTP, compatible with STP</p> <p>Support MRP</p>
Broadcast	<p>Support IGMP Snooping</p> <p>Support static multicast MAC address binding</p> <p>Support unknown multicast filtering</p> <p>Support GMRP</p>
Security Management	<p>Support WEB, TELENT, and SSH access control</p> <p>Support ACL access control lists, 802.1X port authentication, and TACACS+</p> <p>Support loopback detection, network storm/ring status/port alarms, and email logging.</p>
Management and Maintenance	<p>Support QoS, SNMP v1/v2c/v3, SNMPv1/v2c/v3 TRAP, RMON, LLDP</p> <p>Support port mirroring, Ping, link diagnostics</p> <p>Support user permission management, system logs, local/network time synchronization, daylight saving time</p> <p>Support online reboot, factory reset, system upgrade, configuration file upload/download</p> <p>Support MW-NMPv2, MixView, and MaxView management</p>
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	12.8Gbps

Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	
100M Fiber Port	4x100Base-FX 100M fiber ports, with optional SC/FC/ST interfaces. Transmission distance supports 1310nm multi-mode dual fiber 2km or 1310nm single-mode dual fiber 20km (40/60/80/100km optional)
100M Copper Port	20x10/100Base-T(X) auto-sensing 100M RJ45 copper ports available, supporting full/half-duplex and auto MDI/MDI-X
Relay	1*relay alarm output, 3-pin 5.08mm terminal block
CONSOLE	1*CONSOLE port, RS232 signal RJ45 port, used for device debugging
Status LED	Power indicator, operation indicator, alarm indicator, interface rate and connection / activity indicator
Power Supply	
Power Input	AC model: AC85~264V or DC110~370V, built-in overcurrent protection, supports single/dual power supply options DC model: DC18~72V, reverse polarity protection, supports single/dual power supply options
Power Consumption	≤10.3W@AC220V (full load)
Connection	5-pin 5.08mm terminal block
Physical Characteristics	
Dimension	482.6 × 44 × 210 mm (excluding connectors, including mounting brackets)
Installation	Standard 19-inch 1U rack mount
IP Code	IP40
Weight	About 2.9kg
Working Environment	
Operating Temperature	-40°C~+75°C

Storage Temperature	-40°C~+85°C
Ambient Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	<p>IEC 61000-4-2 (ESD): Level 4 (Contact discharge± 8kV, Air discharge± 15kV)</p> <p>IEC 61000-4-5 (Surge): Level 3 (Power supply: Common mode ±2kV, Differential mode ±2kV;</p> <p>Ethernet port: Common mode ±6kV, Differential mode ±2kV)</p> <p>IEC 61000-4-4 (EFT): Level 4 (Power supply: ±4kV; Ethernet port: ±2kV)</p>

Dimensions

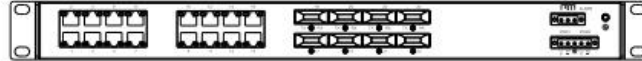
Unit: mm



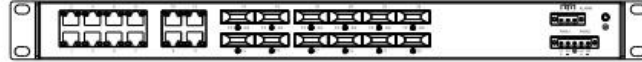
CISCO M6024-4F:



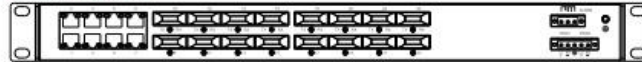
CISCO M6024-8F:



CISCO M6024-12F:



CISCO M6024-16F:



Ordering Information

Standard Model	100M Fiber Port	100M Copper Port	Power Voltage
CISCOM6024-4F(M/S)-AD220	4	20	Single AC85V~264V/ DC110V~370V (optional dual power supply)
CISCOM6024-4F(M/S)-DC24	4	20	Single DC18V~72V (optional dual power supply)



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