CISCOM6216

16-Port Layer 2 DIN Rail Managed 100M Industrial Ethernet Switch

- 16 x 10/100Base-T(X) RJ45 ports
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP, MRP for network redundancy
- Support QoS, based on 802.1P/DSCP/port priority mapping
- Single AC85V~264V / DC110V~370V AC/DC power input, or DC9V~60V redundant power inputs
- High-strength aluminum alloy shell, IP40-rated housing protection, fanless design
- -40 ℃~+75 ℃ operating temperature range

Product Description

The CISCOM6216 is a 16-port Layer 2 managed Fast Ethernet DIN-rail industrial switch, offering 16* 10/100Base-T(X) ports. It adopts a store-and-forward switching mechanism, delivering robust bandwidth processing capabilities while automatically detecting and correcting packet errors to reduce transmission faults. This ensures stable, reliable, and efficient data communication for Fast Ethernet networks. Built with high-quality industrial-grade components and designed to stringent engineering and production standards, the switch supports standard 35mm DIN-rail mounting and features a rugged high-strength aluminum alloy enclosure. With an operating temperature range of -40°C to +75°C and high-standard industrial protection design, it is capable of withstanding harsh environments while maintaining consistent communication performance.

The CISCOM6216 industrial fast ethernet switch supports WEB-based network management and a wide range of network protocols, including MW-Ring, ERPS, STP/RSTP, MRP, VLAN, SVL, LACP, LLDP, SNMPv1/v2c/v3, RMON, QoS, 802.1X authentication, TACACS+ client, IGMP Snooping, GMRP, ACL, WEB/TELNET/SSH access control, static link aggregation, port mirroring, static MAC binding, network diagnostics, loopback detection, link diagnostics, email logging, alarms, SNTP client, system log, and online firmware upgrades. These features enhance network performance, reliability, and security, meeting the demands of complex industrial networking applications. Undergoing rigorous functional, extreme temperature, safety, and EMC testing, the CISCOM6216 switch is designed for dependable operation in challenging industrial environments and is ideal for industrial automation, integrated energy systems, smart cities, intelligent transportation, and smart manufacturing applications.

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 LACP, and dynamic LACP aggregations 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 the LLDP to obtain LLDP neighbor information and monitor link status, facilitating topology management and fault location.
- Support ERPS, 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 ≤ 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, providing statistics and alarms for various data frame types, enabling remote monitoring and management by network management systems
- Support QoS (Quality of Service) 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, including local and RADIUS login authentication
- Support TACACS+ client for user authentication, authorization, and billing, 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, with output to the web page, log host, and console for display

Technical Specifications

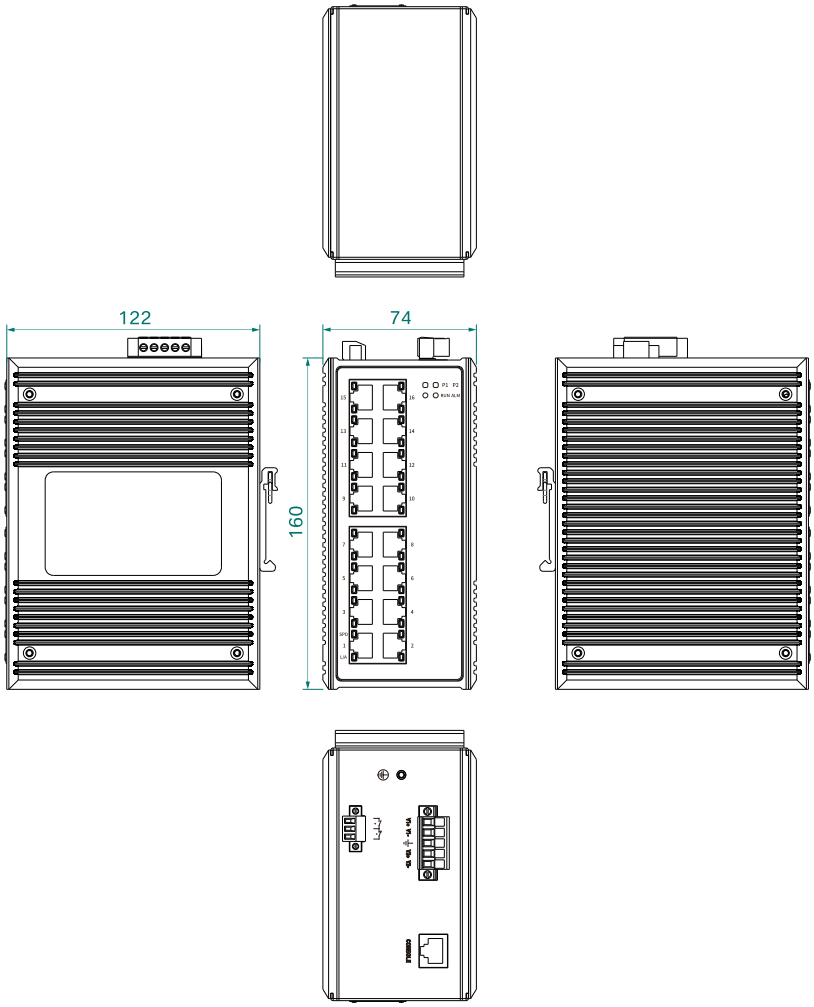
Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics Support 802.1Q VLAN, port isolation, and SVL configuration Support MAC address aging and learning limits, static MAC address binding, and source MAC address filtering
Redundancy	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, 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, and link diagnostics Support user permissions management, system logs, SNTP client, and daylight saving time Support online reboot, factory reset, system upgrades, and configuration file upload/download Support MW-NMPv2, MixView, and MaxView management
Switch Capability	
Processing Type	Store-and-Forward
Backplane Bandwidth	12.8Gbps

Buffer Size	4.1Mbit
MAC Table Size	8K
Interface	
100M Copper Port	16 x 10/100Base-T(X) auto-sensing RJ45 ports, support full/half duplex, auto MDI/ MDI-X
Relay	1*relay alarm output, 3.81mm pitch 3 pin terminal block
CONSOLE	1*console port, RS-232 serial port with an RJ-45 connector, used for equipment debugging
Status LED	Power indicator, operation indicator, alarm indicator, copper port speed and connection/activity indicator
Power Supply	
Input Voltage	DC Model: DC9V~60V, redundant power inputs, reverse polarity protection AC Model: AC85V~264V/DC110V~370V
Power Consumption	<8W@DC24V (full load)
Connection	5.08mm pitch 5-pin terminal blocks with lock mechanism
Physical Characteristics	
Dimensions	160 × 74 × 122 mm (DIN rail mounting clip excluded)
Installations	Easy installation on 35mm DIN rails
IP Code	IP40; Aluminum alloy shell
Weight	About 1.2kg
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

Dimensions

Unit: mm



Ordering Information

Standard Model	100M Copper Port	Input Voltage
CISCOM6216	16	DC9~60V redundant inputs
CISCOM6216-AD220	16	Single AC85~264V/DC110~370V

Contact Us

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