CISCOM6218-2F

18-Port Layer 2 Managed DIN Rail Industrial Ethernet Switch



- 2×100Base-FX ports, 16×10/100Base-T(X) RJ45 ports
- MW-Ring (recovery time < 20 ms @ 200 switches), ERPS, STP/RSTP, MRP for network redundancy
- Support QoS with priority mapping based on 802.1P/DSCP/port
- AC85~264V/DC110~370V or dual DC 9~60V power inputs
- High-strength aluminum alloy shell, IP40-rated housing protection
- -40°C to +75°C operating temperature range

Product Descripton

The CISCOM6218-2F is a Layer 2 managed DIN rail industrial Ethernet switch equipped with 2×100Base-FX fiber ports and 16×10/100Base-T(X) copper ports. Designed with a store-and-forward mechanism, it delivers strong bandwidth handling capabilities while automatically detecting and correcting packet errors to ensure stable, reliable, and efficient data transmission. Built from industrial-grade components and engineered to high design and production standards, it is housed in a rugged high-strength metal enclosure and supports 35mm standard DIN-rail installation. With a fanless heat dissipation design, the switch operates reliably across a wide temperature range from -40°C to +75°C. Its robust industrial protection features enable it to withstand harsh environmental conditions, ensuring consistent communication performance in demanding industrial settings.

CISCOM6218-2F offers comprehensive WEB-based network management capabilities and supports a wide range of protocols, including MW-Ring, ERPS, STP/RSTP, MRP, VLAN, LACP, LLDP, SNMPv1/v2c/v3, RMON, QoS, 802.1X, IGMP snooping, 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 logs, and online firmware upgrades. These advanced functions optimize network performance, improve reliability, and strengthen security, making the switch ideal for complex industrial networks. Each unit undergoes rigorous testing, including functional verification, extreme temperature trials, safety assessments, and EMC compliance checks, ensuring dependable operation in mission-critical and challenging industrial environments.

Product Features

- Support rate limiting for broadcast, unknown multicast, and unknown unicast packets, with broadcast/multicast 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 capture data at port entrances and exits for network detection and fault management
- Support 802.1Q VLAN, offering Access, Trunk, and Hybrid interfaces for easy segmentation of multiple broadcast domains, enhancing network security
- Support IGMP snooping, establishing a layer 2 multicast forwarding table to reduce multicast data broadcast in the network, saving network resources
- Support LLDP for discovering neighboring devices, monitoring link status, and enabling topology management and fault localization
- Support ERPS for multiple-ring network protection, link backup, fast convergence, and enhanced network stability
- Support RSTP, and compatible with STP, to eliminate network loops and improve network reliability
- Supports MRP, improving network reliability with reconfiguration time ⩽500ms
- Support web-based control with HTTP and HTTPS protocol access control, including login IP address restrictions
- Support centralized management with SNMPv1/v2c/v3 and SNMPv1/v2c/v3 TRAP notifications, including support for standard and private TRAPs
- Support RMON for remote monitoring and management of various types of data frames, including statistics and alarms for use in network management systems
- Support QoS to prioritize voice, video, and critical data transmission within the network, addressing network congestion
- Support ACL with customizable frame type filtering rules, allowing filtering or rate limiting of specified packets
- Support 802.1X port authentication for user authentication at network access points, providing local and RADIUS-based login authentication
- Support TACACS+ clients for user authentication, authorization, and billing, preventing unauthorized user logins and enhancing system security
- Support loopback detection to prevent network loops that can trigger network storms
- Support system logging with recording, downloading, categorization, and display via web, log host, or console

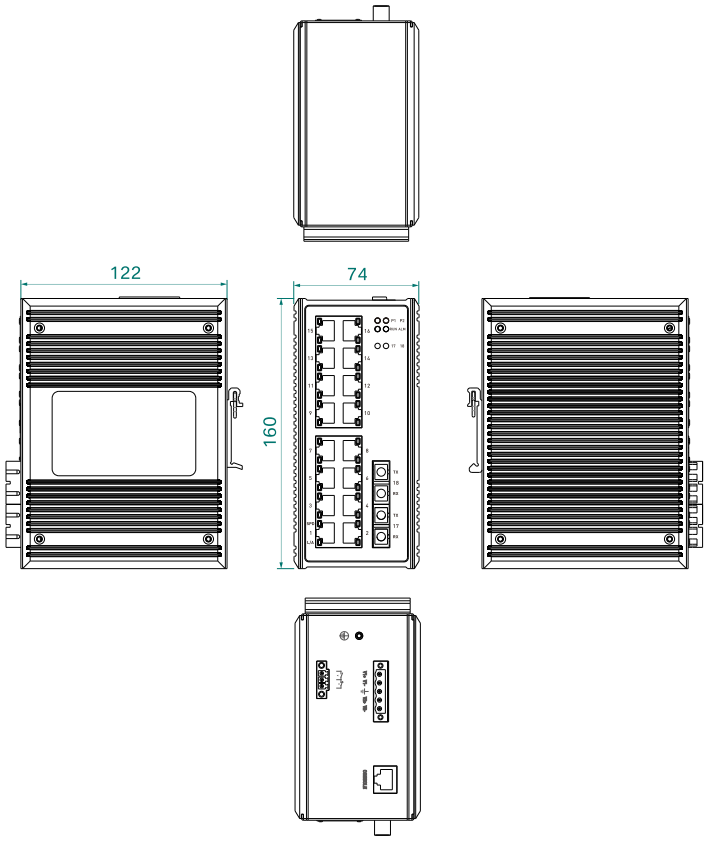
Technical Specifications

Software	
Switching	Support port configuration, port rate limiting, storm suppression, storm detection, port aggregation, LACP, and port statistics Support 802.1Q VLAN and port isolation Support MAC address aging and static MAC address binding
Redundancy	Support MW-Ring proprietary ring network technology Support ERPS Support RSTP and compatible with STP Support MRP
Multicast	Support IGMP Snooping Support static multicast MAC address binding Support unknown multicast filtering Support GMRP
Security Management	Support WEB, TELNET, and SSH access control Support ACL access control lists, 802.1X port authentication, and TACACS+ clients Support loopback detection, network storm/ring network status/port disconnection alerts, and email logging
Management and Maintenance	Support QoS, SNMP v1/v2c/v3, SNMPv1/v2c/v3 TRAP, RMON, LLDP Support port mirroring, Ping, link diagnostics Support user permission management, system logs, SNTP client, daylight saving time Support online reboot, factory reset, system upgrade, 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 Fiber Port	2×100Base-FX ports (single-mode/multi-mode, SC/FC/ST, wavelengths

	and transmission distances are optional)
100M Copper Port	16×10/100Base-T(X) auto-sensing RJ45 ports, support full/half duplex and auto MDI/MDI-X
Relay	1×relay alarm output with a 3.81mm spacing and 3-pin locking connector terminal
CONSOLE	1×console port with RS232 signal on a RJ45 connector, used for device debugging
Status LED	Power indicator, Running indicator, Alarm indicator, Interface indicator, TX port speed indicator
Power Supply	
Input Voltage	DC Model: DC9~60V redundant power inputs, reverse polarity protection AC Model: AC85~264V/DC110~370V
Power Consumption	＜10W@DC24V(full load)
Connection	5-pin 5.08mm pitch locking terminal connectors
Physical Characteristics	
Dimensions	160×74×122 mm (DIN rail mounting clip and connectors excluded)
Installations	Easy installation on 35mm DIN rails
IP Code	IP40
Weight	About 1.2kg
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 ※ Ethernet ports support 6kV Surge protection IEC 61000-4-4 (EFT): Level 4

Dimensions

Unit: mm



Ordering Information

Standard Model	100M Fiber Port	10/100M Copper Port	Input Voltage
CISCOM6218-2F(M/S)	2	16	DC9~60V redundant inputs
CISCOM6218-2F(M/S)-AD220	2	16	AC85~264V/DC110~370V

Contact Us

COME-STAR COMMUNICATION(WUHAN) CO., LTD.

Address: Puneng Industrial Park, Fenghuang Garden 1st Road, East Lake High-Tech Development Zone, Wuhan, China.

Tel: +86-027-59257958

Mail: sales@come-star.com

Official site: www.come-star.com

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