KYLAND

SICOM2024M

28 port layer 2 managed rack mountable switches

Overview

SICOM2024M is a layer 2 managed industrial Ethernet switch designed to operate reliably in electrically harsh and climatically demanding utility substation and industrial environments, It supports up to 4 100/1000Base-X SFP ports and 24 fast Ethernet RJ45 ports. SICOM2024M is a 19-inch 1U rack mountable device and allows front and rear panel mounting. SICOM2024M supports many Layer 2 software features such as port, VLAN, multicast, QoS, RSTP. It supports Console, Telnet, Web management and network management software based on SNMP. At present, the pro duct is widely used at the intelligent substation and many other industrial communication systems.

Key Features

Supports max 4 100/1000Base-X SFP ports and 24 fast Ethernet RJ45 ports

Supports DT-Ring, STP/RSTP for network redundancy

Supports IP/MAC address conflict alarm, Power alarm, Port alarm, Ring alarm

Supports SFP Digital Diagnostics Monitoring

IP40 protection class

CE, FCC certification

Product Specifications

>Software Functions
-Switching Function

Supports VLAN and PVLAN.

Supports GVRP.

Supports port aggregation.

Supports flow control.

Supports port rate limit.

Supports broadcast storm suppression.

-Redundancy Protocol

Supports DT-Ring, DT-Ring+, and DT-VLAN and the recovery time<50 ms.

Supports STP/RSTP.

-Multicast Protocol

Supports IGMP snooping.

Supports GMRP.

Supports static multicast.

-Service Quality Management

Supports ACL

Supports 802.1p(CoS),DSCP

Supports SP and WRR queuing.

-Management & Maintenance

Supports Console, Telnet, and Web management methods.

Supports SNMPv1/v2c and can managed by Kyvision.

Supports software update over FTP.

Supports IP/MAC address conflict alarm, Memory/CPU usage alarm, Power alarm, Port alarm, Port traffic alarm, CRC error and packet lose alarm, SFP port RX power alarm and TX power alarm, Ring alarm.

Supports DDM (SFP port).

Supports CRC protection.

Supports RMON.

Supports port mirroring.

Supports Syslog.

Supports LLDP.

Supports Link-check.

-IP Address Management

Supports DHCP Server/Client.

Supports ARP.

-Clock Management

Supports NTP Server/Client.

Supports SNTP.

>Product Specifications

-Standard

IEEE 802.3i(10Base-T)

IEEE 802.3u(100Base-TX and 100Base-FX)

IEEE 802.3x(flow control)

IEEE 802.1p(priority)

IEEE 802.1Q(VLAN)

IEEE 802.1w(RSTP)

-Switch Properties

Priority queue: 8

Number of VLANs: 4094

VLAN ID: 1-4093

Number of multicast groups:511

MAC table: 8K

Packet buffer: 4Mbit

Packet forwarding rate: 7.7Mpps

Switching delay:<10μs

-Interface

Fast Ethernet ports:

100/1000Base-X SFP port

10/100Base-T(X), RJ45 port

Console port: RS232

Alarm contact: 3-pin 5.08mm-spacing plug-in terminal block, 250 VAC/220 VDC Max, 2 A Max, 60 W Max

-LED

ED on front panel

Running LED: Run

Power LED: PWR1,PWR2

Port LED: Link/ACT, Speed

LED on rear panel

Interface LED: Link/ACT, Speed (RJ45 port); Link/ACT(Fiber port)

-Power Requirements

Power input:

24-48VDC(18-72VDC)

100-240VAC,50/60Hz;110-220VDC (85-264VAC/77-300VDC)

Power terminal: 5-pin 5.08 mm-spacing plug-in terminal block

Power consumption:<13W

Overload protection: Support

Reverse connection protection: Support

Redundancy protection: Support

-Physical Characteristics

Housing: Metal

Cooling: Natural cooling, fanless

Protection Class: IP40

Dimensions(WxHxD): 482.6mm×44mm×200mm

Weight: 3Kg

Mounting: 19 inch 1U rack mounting

-Environmental Limits

Operating temperature: -40°C to +85°C

Storage temperature: -40°C to +85°C

Ambient Relative Humidity: 5% - 95% (non-condensing)

-Quality Assurance

MTBF: 318296 h

Warranty: 5 years

-Approvals

CE, FCC

-Industry Standard

EMI:

FCC CFR47 Part 15,EN55022/CISPR22,Class A

EMS:

IEC61000-4-2(ESD) ±8kV(contact),±15kV(air)

IEC61000-4-3(RS) 10V/m(80MHz-2GHz)

IEC61000-4-4(EFT) Power Port:±4kV;Data Port:±2kV

IEC61000-4-5(Surge) Power Port:±2kV/DM,±4kV/CM;Data Port:±2kV

IEC61000-4-6(CS) 3V(10kHz-150kHz);10V(150kHz-80MHz)

IEC61000-4-8(power frequency magnetic field) 100A/m(cont.),1000A/m(1s-3s)

IEC61000-4-9(pulsed magnetic field) 1000A/m

IEC61000-4-10(damped oscillation) 100A/m

IEC61000-4-12(oscillatory wave) 2.5kV/CM,1kV/DM

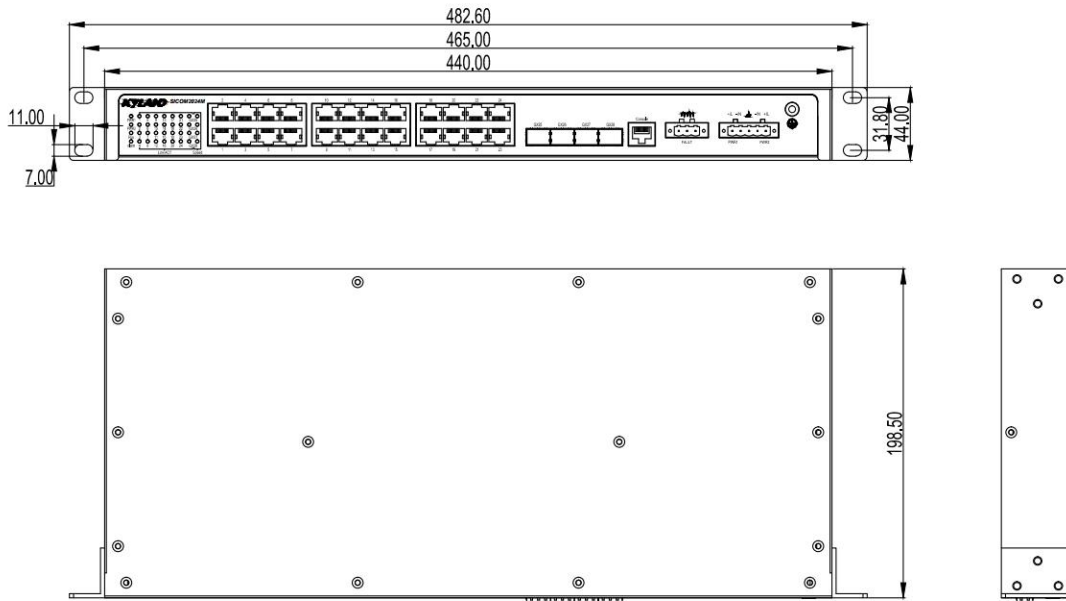IEC61000-4-16(common mode conduction) 30V(cont.),300V(1s)

Machinery:

IEC60068-2-6 (vibration)

IEC60068-2-27 (shock)

IEC60068-2-32 (free fall)

Mechanical Drawing

Ordering Information

SICOM2024M-Ports- PS1-PS2	
Code definition	Code selection
Ports:	4SFP24T=4×100Base-X SFP ports; 24×10/100Base-T(X) RJ45 ports 4GX24T= 4x 100/1000 Base-X SFP ports;24x10/100 Base-T(X) RJ45 ports
PS1-PS2: power input	HV-HV=100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC), redundant power inputs HV=100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC), single power input L2-L2=24-48VDC(18-72VDC), redundant power inputs L2=24-48VDC(18-72VDC), single power input

Accessories

Accessory Model	Description
SFP module	See the selection table of industrial gigabit SFP module.
DT-FCZ-RJ45-01	Single-port RJ45 dust plug