

SICOM2024M



28 Port Layer 2 Managed Rack Mountable Switches

- Supports max 4 fast Ethernet fiber ports and 24 fast Ethernet RJ45 ports
- Supports the IP/MAC address conflict alarm, power failure alarm, power alarm, port alarm
- Allow front and rear panel mounting
- Complies with IEC 61850-3 and IEEE1613
- CE, FCC certification



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. SICOM2024M supports up to 4 fast Ethernet fiber ports and 24 fast Ethernet RJ45 ports, meets the IEC 61850 and IEEE1613 standards. SICOM2024M is a 19-inch 1U rack mountable device and allows front and rear panel mounting. It 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 product is widely used at the intelligent substation and many other industrial communication systems.

Software Functions

Switching Function

Supports VLAN and PVLAN.
Supports port aggregation.
Supports flow control.
Support port rate limit
Supports broadcast storm suppression.

Redundancy Protocol

Supports DT-Ring, DT-Ring+, and DT-VLAN and the recovery time<50 ms. (special version supports)
Supports STP/RSTP

Multicast Protocol

Supports IGMP snooping.
Supports GMRP. (special version supports)
Supports static multicast. (special version supports)

Service Quality Management

Supports ACL (special hardware version supports)
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 the IP/MAC address conflict alarm, power failure alarm, power alarm, port alarm
Supports port mirroring.
Supports Syslog. (special version supports)
Supports LLDP.
Supports Link-check.

IP Address Management

Supports DHCP server. (special version supports)

Clock Management

Supports SNTP server/client.

Product Specifications

Technical 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	4
Number of VLANs	256
VLAN ID	1-4093
Number of multicast groups	256
MAC table	8K
Packet buffer	2Mbit
Packet forwarding rate	4.2Mpps
Switching delay	<10µs

Interface

- Fast Ethernet ports
- ▼ 100Base-FX, single/multi mode, SC/ST/FC connector
 - ▼ 10/100Base-T(X), RJ45 port
- Console port RS232, RJ45
- Alarm contact 3-pin 3.81mm-spacing plug-in terminal block, 250 VAC/220 VDC Max, 2 A Max, 60 W Max

LED

- LED on front panel
- ▼ Running LED: Run
 - ▼ Alarm LED: Alarm
 - ▼ Power LED: PWR1, PWR2
 - ▼ Port LED: Link/ACT, Speed; DPX, Link
- LED on rear panel
- ▼ Port LED: Link/ACT
 - ▼ Port speed LED: Speed
 - ▼ Fiber port LED: A, B

Power Requirements

- Power input
- ▼ 24DC(18-36VDC)
 - ▼ 48DC(36-72VDC)
 - ▼ 220AC/DCW(85-264VAC/77-300VDC)
- Power terminal 5-pin 5.08 mm-spacing plug-in terminal block
- Power consumption <16.8W
- Overload protection Support
- Reverse connection protection Support
- Redundancy protection Support

Physical Characteristics

Housing	Metal
Cooling	Natural cooling, fanless
Protection Class	IP40
Dimensions(WxHxD)	482.6mmx44mmx245mm (19x1.73x9.64 in.)
Weight	2.5Kg (5.51 pound)
Mounting	19 inch 1U rack mounting

Environmental Limits

Operating temperature	-40°C to +85°C (-40°F to 185°F)
Storage temperature	-40°C to +85°C (-40°F to 185°F)
Ambient Relative Humidity	5% - 95% (non-condensing)

Quality Assurance

MTBF	338,566 hrs
Warranty	5 years

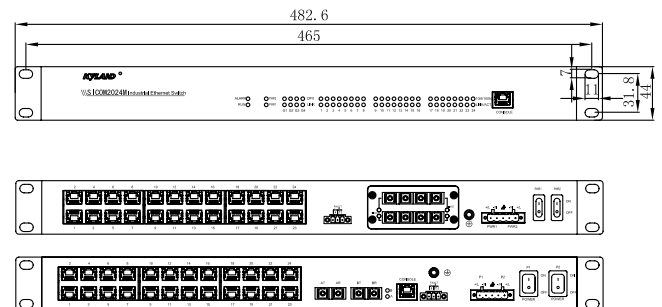
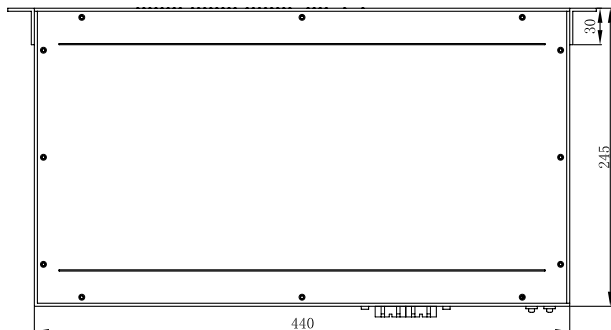
Approvals

CE, FCC
Please check Kyland website for the latest updates.

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-Connector-PS1-PS2

Ports

4S24T	4x100Base-FX, single-mode fiber port;24x10/100Base-T(X) RJ45 port
4M24T	4x100Base-FX, multi-mode fiber port;24x10/100Base-T(X) RJ45 port
2S24T	2x100Base-FX, single-mode fiber port;24x10/100Base-T(X) RJ45 port
2M24T	2x100Base-FX, multi-mode fiber port;24x10/100Base-T(X) RJ45 port
24T	24x10/100Base-T(X) RJ45 port

Connector

100M fiber port specifications

SC05	SC connector, multi-mode, 1310nm, 5km
ST05	ST connector, multi-mode, 1310nm, 5km
FC05	FC connector, multi-mode, 1310nm, 5km
SC40	SC connector, single-mode, 1310nm, 40km
ST40	ST connector, single-mode, 1310nm, 40km
FC40	FC connector, single-mode, 1310nm, 40km
SC60	SC connector, single-mode, 1310nm, 60km
SC80	SC connector, single-mode, 1550nm, 80km
None	No 100M fiber port

PS1

HV	220AC/DCW(85-264VAC/77-300VDC)
L1	48DC(36-72VDC)
L3	24DC(18-36VDC)

PS2

HV	220AC/DCW(85-264VAC/77-300VDC)
L1	48DC(36-72VDC)
L3	24DC(18-36VDC)
None	No secondary power supply

» Accessories

Accessory Model

Description

DT-FCZ-RJ45-01	Single-port RJ45 dust plug
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