

SICOM2024M



28 Port Layer 2 Managed Rack Mountable Switch

- 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 IEC61850-3 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 IEC61850 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	<10 μ s

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)	482.6mm×44mm×245mm (19×1.73×9.64 in.)
Weight	2.5Kg (5.51 pound)
Mounting	19 inch 1U rack mounting

Environmental Limits

Operating temperature	-40°C~+85°C (-40°F - 185°F)
Storage temperature	-40°C~+85°C (-40°F - 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) \pm 8kV(contact), \pm 15kV(air)
- ▼ IEC61000-4-3(RS) 10V/m(80MHz-2GHz)
- ▼ IEC61000-4-4(EFT) Power Port: \pm 4kV;Data Port: \pm 2kV
- ▼ IEC61000-4-5(Surge) Power Port: \pm 2kV/DM, \pm 4kV/CM;Data Port: \pm 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

