

SICOM2024M

Layer 2 28 Port Managed Rack Mountable IEC61850 Switch



- 24 10/100Base-TX RJ45 ports, 4 100Base-FX SM/MM ports
- Supports RSTP
- Supports power failure alarm
- Allows front and rear panel mounting
- Exceeds IEC61850-3 and IEEE1613



Overview

SICOM2024M is an entry-level managed industrial Ethernet switch specially designed by KYLAND for industrial applications. It supports up to 24 10/100Base-T(X) and 4 100Base-FX ports, and it also supports Kyvision 3.0 management software. Its high-performance switch engine, solid and closed case, high-efficiency single-rib-shape case for heat dissipation without using fans, overcurrent, overvoltage and EMC protection and excellent EMC protection of RJ45 port make SICOM2024M applicable in harsh and dangerous industrial environments.

Features & Benefits

- Redundancy Technology: supports RSTP
- Multicast Protocol: supports IGMP Snooping, GMRP and static multicast
- Network Partition: supports VLAN, PVLAN
- Service Quality: supports QoS
- Bandwidth Management: supports port trunking, port speed limit, broadcast storm control
- Network Management and Monitoring: supports CLI, Telnet, WEB management methods, Kyvision centralized management, SNMPv1/v2/v3, RMON, LLDP, STP, DHCP
- Network Security: supports DT-Psec, SSH, SSL, ACL
- Device Management: supports FTP upgrade
- Device Maintenance: supports port mirroring
- Alarm Output: supports IP/MAC conflicts, power and port alarms

Technical Specifications

Standard

IEEE 802.3i, IEEE 802.3u, IEEE 802.3x, IEEE 802.1p, IEEE 802.1Q, IEEE802.1s

Protocols

RSTP;
IGMP Snooping, GMRP;
VLAN, PVLAN;
Telnet, HTTP, HTTPS, SNMPv1/v2/v3, RMON, LLDP, STP, DHCP server;
DT-Psec, SSH, SSL, ACL;
FTP; ARP, QoS

Switch Properties

Priority Queues: 4
Number of VLANs: 256
VLAN ID: 1-4094
Number of Multicast Groups: 256
MAC Table: 8K
Packet Buffer: 4Mbit
Packet Forwarding Rate: 4.2Mpps
Switching Delay: <5μs

Interface

Fast Ethernet Fiber Ports: max 4 100Base-FX, SM/MM ports, FC/SC/ST connector
Fast Ethernet RJ45 Ports: 24 10/100Base-TX RJ45 ports
Console Port: RS232 (RJ45 connector)
Alarm Contact: 3-pin 3.81mm-spacing plug-in terminal block, 250VAC/220VDC Max, 2A Max, 60W Max

LED

LEDs on Front Panel:
-Running LED: Run
-Alarm LED: Alarm
-Power LED: PWR1, PWR2
-Interface LED: Link/ACT (Fast Ethernet port), Speed (Fast Ethernet port)
LEDs on Rear Panel:
-Interface LED: Link/ACT
-Port Speed LED: Speed

Transmission Distance

Twisted Pair: 100m (Standard CAT5, CAT5e network cable)
Multi Mode Fiber: 1310nm, 5km (100M)
Single Mode Fiber: 1310nm, 40km/60km (100M)
1550nm, 60km/80km (100M)

Power Requirements

Power Input: 24VDC (18-36VDC), 48VDC (36-72VDC), 110VDC (82-185VDC), 220VAC/DC (85-264VAC/120-370VDC)
Power Terminal: 5-pin 5.08mm-spacing plug-in terminal block
Power Consumption: <16.8W
Overload Protection: Support
Reverse Connection Protection: Support
Redundancy Protection: Support

Physical Characteristics

Housing: Metal, fanless
Protection Class: IP40
Dimensions (W×H×D): 482.6×44×245mm (19×1.73×9.65 in.)
Weight: 2.5kg (5.512 pound)
Mounting: 19 inch 1U Rack mounting

Environmental Limits

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

MTBF

338,566 hrs

Warranty

5 years

Approvals

CE, FCC

Industrial 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)

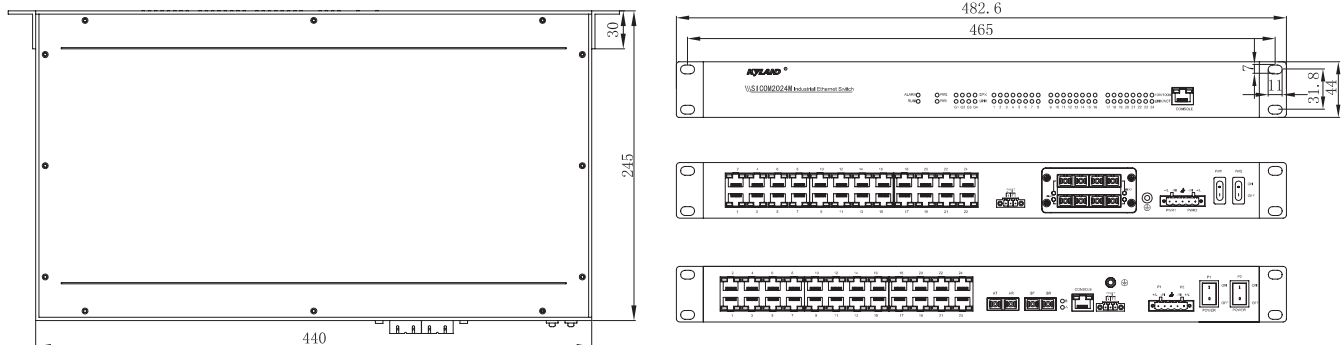
Machinery:

IEC60068-2-6 (Vibration)
IEC60068-2-27 (Shock)
IEC60068-2-32 (Free Fall)

Industry: IEC61000-6-2

Power: IEC61850-3, IEEE1613
Railway: EN50155, EN50121-4
Traffic Control: NEMA TS-2

Mechanical Drawing



Ordering Information

Model	Fast Ethernet Port			Fiber Connector			Power Supply			
	100Base-FX Single Mode	100Base-FX Multi Mode	10/100Base-TX	SC	ST	FC	18-36VDC	36-72VDC	82-185VDC	85-264VAC/120-370VDC
SICOM2024M-4S-24T	4	--	24							
SICOM2024M-4M-24T	--	4	24							
SICOM2024M-2S-24T	2	--	24							
SICOM2024M-2M-24T	--	2	24							
SICOM2024M-24T	--	--	24	--	--	--				

Please Select

Accessories

Model	Description
DT-FCZ-RJ45-01	RJ45 dustproof shield

Order Codes

SICOM2024M- _____ - _____ - _____ - _____ - _____ - _____
FX Connector Distance TX PS1 PS2

Fiber Ports

2S= 2 single mode fiber ports
 4S= 4 single mode fiber ports
 2M= 2 multi mode fiber ports
 4M= 4 multi mode fiber ports
 None=No fiber port
 (Please refer to the order information on available port combinations.)

Connector: Fiber Connector

FC= FC connector
 SC= SC connector
 ST= ST connector
 SD= single fiber bi-direction, only for single mode, only SC connector (different price)

Distance: Fiber Distance

2= multi mode, 850nm, 2km
 5 (or None)= multi mode, 1310nm, 5km (multi mode default)
 40 (or None)= single mode, 1310nm, 40km (single mode default)
 60= single mode, 1310nm, 60km (different price)
 60L= single mode, 1550nm, 60km (different price)
 80L= single mode, 1550nm, 80km (different price)
 5T3R= single fiber bi-direction, 1550T/1310R, 20km (different price)
 5R3T= single fiber bi-direction, 1550R/1310T, 20km (different price)
 40/5T3R= single fiber bi-direction, 1550T/1310R, 40km (different price)
 40/5R3T= single fiber bi-direction, 1550R/1310T, 40km (different price)
 80/5T3R= single fiber bi-direction, 1550T/1310R, 80km (different price)
 80/5R3T= single fiber bi-direction, 1550R/1310T, 80km (different price)

TX: Copper Ports

24T= 24 10/100BaseT(X) ports, RJ45 connector

(Please refer to the order information on available port combinations.)

PS1 and PS2: Power Supply 1 and 2

24= 24VDC (18-36VDC)

48= 48VDC (36-72VDC)

110= 110VDC (82-185VDC)

220A=220VAC/220VDC (85-264VAC/120-370VDC)

XX=No power supply (PS2 only)

Example Order Codes

SICOM2024M-4S-SC-24T-24-24

4 single mode fiber ports with SC connector, 1310nm 40km, 24 10/100Base TX RJ45 ports, and dual redundant 18-36VDC power supplies.

Note: Please contact sales for different prices.