

SICOM2024M

24 Port Managed Industrial Ethernet Switch



CE, FCC, ROHS

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 Kyvision3.0 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 at power input side, and excellent EMC protection of RJ45 port make SICOM2024M applicable in harsh and dangerous industrial environments.

Features

1. Supports up to 4 100Base-FX ports and 24 10/100Base-T(X) RJ45 ports
2. Supports RSTP/STP (IEEE802.1w/d) redundant protocol
3. Flexible network topologies: tree, star and chain
4. Supports IGMP Snooping, port trunking, port mirroring, QoS, VLAN, ACL and Link aggregation
5. Bandwidth configuration controls port bandwidth properly
6. Port speed limitation and special broadcast storm control
7. Unicast attack detection
8. IP and MAC address confliction detection
9. Supports multiple management methods including CLI, TELNET, WEB, SNMP V1/V2/V3 and OPC
10. EMC industrial level 4, specially designed for harsh electromagnetic interference environment
11. Abundant power supply options, dual redundant power supplies
12. Relay alarm output for the loss of power
13. Operating temperature: -40 to 85°C (-40 to 185°F)
14. Ribbed aluminum case for heat dissipation, fanless design
15. Rack-mounting (19" 1U) installation
16. IP40 protection class
17. Unified management software for SICOM series: Kyvision3.0

Technical Specifications**Standard**

IEEE802.3
IEEE 802.3u
IEEE 802.3x
IEEE802.1d
IEEE802.1w
IEEE802.1p
IEEE802.1q
Store and forward switching mode

Network

Tree, star and chain network topology

Interface

100M Fiber Ports: up to 4 x 100Base-FX ports, FC/SC/ST
10/100M Copper Ports: 24 x 10/100Base-T(X) ports, RJ45
CONSOLE Interface: RS232, RJ45
Alarm Contact: 3-Pin 3.81mm-spacing terminal block, 250VAC/220VDC Max; 2A Max; 60W Max
LED Indicator: RUN, PWR1, PWR2; LINK, DPX (A-B); LINK/ACT, 10M/100M (1-24)

Performance

Backplane switching capacity: 8.8G
MAC Address Table Size: 8K

Cable

Twisted Pair: 0-100m (Standard CAT5, CAT5e network cable)
Multi Mode Fiber: 1310nm, 0-5km (100Mbps)
Single Mode Fiber: 1310nm, 0-40km; 1550nm, 0-80km

Power Requirements

Power input: 24VDC (18-36VDC), 48VDC (36-72VDC), 110VDC (82-185VDC), 110VAC/220VAC/220VDC (85-264VAC/120-370VDC), dual redundant power supplies (optional)
Power terminal: 5-Pin 5.08mm-spacing plug-in terminal block
Power consumption: <15W

Physical Characteristics

Casing: Ribbed aluminum case (fanless)
Protection class: IP40
Installation: 19 inch 1U rack mounting
Dimensions (WxHxD): 482.6x44x245mm (19x1.73x9.65 inch)
Weight: 2.5kg (5.512 pound)

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: 0 to 95% (non-condensing)

Approvals

IEC61000-4-2 (ESD): ±8KV contact discharge, ±15KV air discharge
IEC61000-4-3 (RS): 10V/M (80-1000MHz)
IEC61000-4-4 (EFT): power line ±4KV, data line ±2KV
IEC61000-4-5 (Surge): power line ±4KV CM/±2KV DM, data line ±2KV
IEC61000-4-6 (CS): 3V (10KHZ-150KHZ), 10V (150KHZ-80MHz)
IEC61000-4-8 (Power frequency magnetic field): 100A/m cont. 1000A/m, 1s to 3s
IEC61000-4-12/18 (Damped oscillatory wave): 2.5KV CM, 1KV DM
IEC61000-4-10 (Damped oscillatory): 30A/m
IEC61000-4-16 (Common mode conduct): 30V cont. 300V, 1s
FCC CFR47 Part 15/EN55022: Class A&B
IEC61000-6-2 (Industrial Standards), IEC61850-3 (Substations), IEEE1613 (Electric Power Substations), EN50121-4 (Railway Applications)

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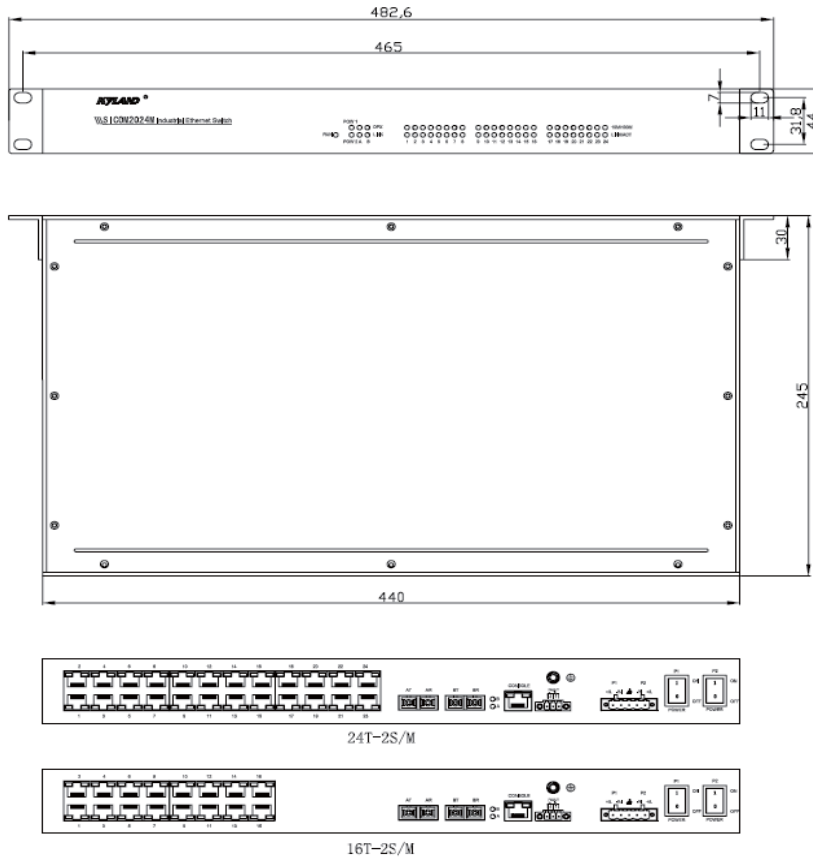
MTBF

35 years

Warranty

5 years

Mechanical Drawing



Ordering Information

Model	Description
SICOM2024M-4S-24T	Managed industrial Ethernet switch with 4 100Base-FX ports, single mode, FC/SC/ST connector, 24 10/100Base-T(X) ports, RJ45 connector, rack mounting, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM2024M-4M-24T	Managed industrial Ethernet switch with 4 100Base-FX ports, multi mode, FC/SC/ST connector, 24 10/100Base-T(X) ports, RJ45 connector, rack mounting, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM2024M-2S-24T	Managed industrial Ethernet switch with 2 100Base-FX ports, single mode, FC/SC/ST connector, 24 10/100Base-T(X) ports, RJ45 connector, rack mounting, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM2024M-2M-24T	Managed industrial Ethernet switch with 2 100Base-FX ports, multi mode, FC/SC/ST connector, 24 10/100Base-T(X) ports, RJ45 connector, rack mounting, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM2024M-1S-24T	Managed industrial Ethernet switch with 1 100Base-FX ports, single mode, FC/SC/ST connector, 24 10/100Base-T(X) ports, RJ45 connector, rack mounting, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM2024M-1M-24T	Managed industrial Ethernet switch with 1 100Base-FX ports, multi mode, FC/SC/ST connector, 24 10/100Base-T(X) ports, RJ45 connector, rack mounting, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature

Model	Description
SICOM2024M-24T	Managed industrial Ethernet switch with 24 10/100Base-T(X) ports, RJ45 connector, rack mounting, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM2024M-2S-16T	Managed industrial Ethernet switch with 2 100Base-FX ports, single mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM2024M-2M-16T	Managed industrial Ethernet switch with 2 100Base-FX ports, multi mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM2024M-1S-16T	Managed industrial Ethernet switch with 1 100Base-FX port, single mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM2024M-1M-16T	Managed industrial Ethernet switch with 1 100Base-FX ports, multi mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM2024M-16T	Managed industrial Ethernet switch with 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature

Power supply: 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, dual redundant power supplies (optional)

Order Codes

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

FX: Fiber Ports

1M= 1 multi mode fiber ports

2M= 2 multi mode fiber ports

4M= 4 multi mode fiber ports

1S= 1 single mode fiber ports

2S= 2 single mode fiber ports

4S= 4 single 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)

PS1 and PS2: Power Supply 1 and 2

12= 12VDC (9-18VDC)

24= 24VDC (18-36VDC)

48= 48VDC (36-72VDC)

110= 110VDC (82-185VDC)

220A=110VAC/220VAC/220VDC (120-370VDC /85-265VAC)

XX=No power supply (PS2 only)

TX: Copper Ports

16T= 16 10/100Base-T(X) ports, RJ45 connector

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

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

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.