KYLAND
Industrializing the Ethernet
Simplifying Industrial Communication

SICOM2024M
24 Port Managed Industrial Ethernet Switch

Version: 101210

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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 contols 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 in)
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)
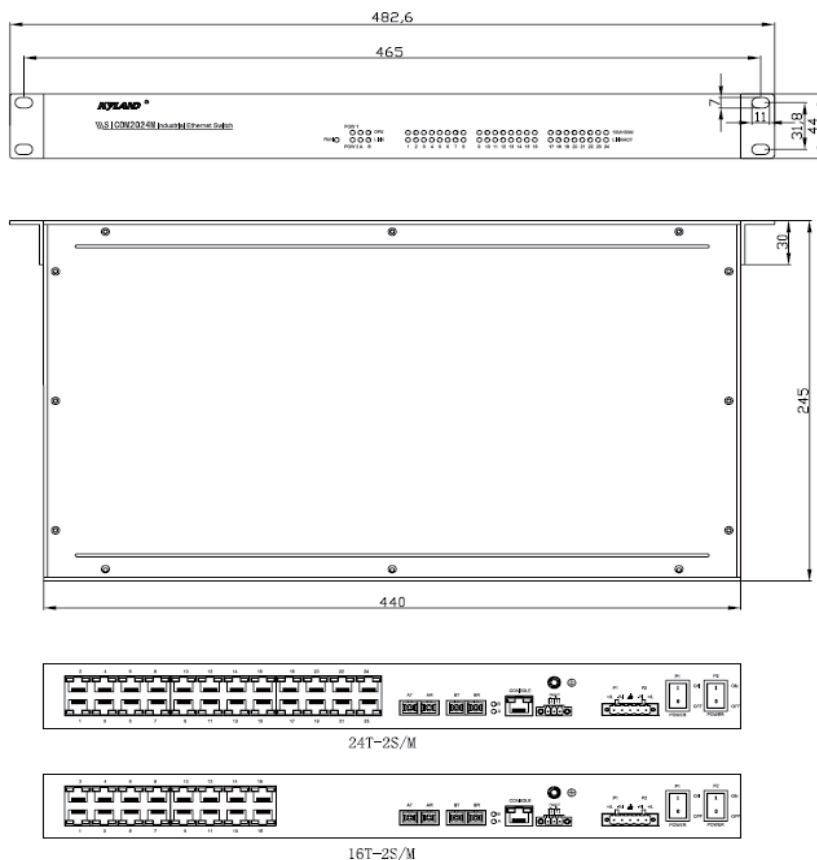
CE, FCC, ROHS

MTBF
35 years

Warranty
5 years

Mechanical Drawing

24T-2S/M

16T-2S/M

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)

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