

SICOM3024

24+2G Port Managed Industrial Ethernet Switch



CE, FCC, RoHS

Chinese State Grid Certification

Overview

SICOM3024 is a high-performance network-managed industrial Ethernet switch specially designed by KYLAND for industrial applications. 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 SICOM3024 applicable in harsh and dangerous industrial environments. The redundant function of optical fiber network, independent entire network management channel, dual redundant power supplies function, and powerful entire network real-time management system provide multiplex guarantee for reliable operation of the system.

Features

1. Supports 2 Gigabit SFP slots, 8 100Base TP/fiber ports and 16 10/100Base-T(X) RJ45 ports
2. Supports DT-Ring protocols (recovery time < 50ms), RSTP/STP (IEEE802.1w/d)
3. Flexible network topologies: ring, chain, star, and tangent ring
4. Advanced ring topology protocol avoiding broadcast storm
5. Supports IGMP Snooping, port trunking, port mirroring, QoS, VLAN, ACL and link aggregation
6. Supports port speed limitation and special broadcast storm control
7. Safe MAC and port binding function, static FDB supported
8. Bandwidth configuration controls port bandwidth properly
9. Improves network monitoring ability through RMON (group 1, 2, 3 and 9)
10. Supports multiple management methods including CLI, TELNET, WEB, SNMP V1/V2/V3, OPC
11. EMC industrial level 4, specially designed for harsh electromagnetic interference environment
12. Abundant power supply options, dual redundant power supplies
13. Relay alarm output for the loss of power
14. Operating temperature: -40 to 85°C (-40 to 185°F)
15. Ribbed aluminum case for heat dissipation, fanless design
16. Rack-mounting (19 inch 1U)
17. IP40 protection class
18. Unified management software for SICOM series: Kyvision3.0.

Technical Specifications**Standard**

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

Network

Ring, chain, star and tangent ring network topology

Interface

Gigabit Ethernet Ports: 2 Gigabit SFP slots for 1000Base-SX/LX/LH/ZX, LC or 10/100/1000Base-T(X), RJ45 interface module
Fast Ethernet Ports: 16 x 10/100Base-T(X) ports, RJ45; 8 x 100Base TP/fiber ports
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 (G1-G2); 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); 1310nm 0-2km (1000Mbps)
Single Mode Fiber: 1310nm, 0-40km; 1550nm, 0-80km

Power Requirements

Power input: 12VDC (9-18VDC), 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: < 20W

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: 3kg (6.614 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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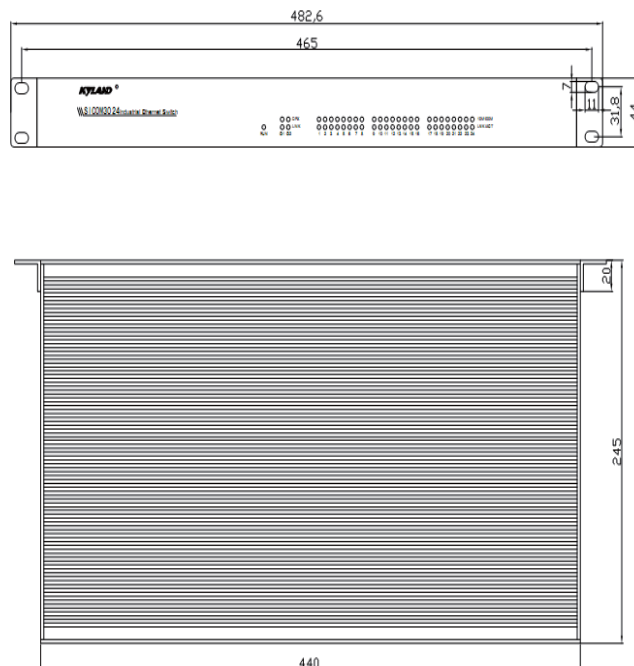
MTBF

35 years

Warranty

5 years

Mechanical Drawing



Ordering Information

Model	Description
SICOM3024-2GX-8S-16T	Managed Ethernet switch with 2 Gigabit SFP slots, 8 100Base-FX ports, single mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2GX-8M-16T	Managed Ethernet switch with 2 Gigabit SFP slots, 8 100Base-FX ports, multi mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2GX-6S-16T	Managed Ethernet switch with 2 Gigabit SFP slots, 6 100Base-FX ports, single mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2GX-6M-16T	Managed Ethernet switch with 2 Gigabit SFP slots, 6 100Base-FX ports, multi mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2GX-4S-16T	Managed Ethernet switch with 2 Gigabit SFP slots, 4 100Base-FX ports, single mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2GX-4M-16T	Managed Ethernet switch with 2 Gigabit SFP slots, 4 100Base-FX ports, multi mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2GX-2S-16T	Managed Ethernet switch with 2 Gigabit SFP slots, 2 100Base-FX ports, single mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2GX-2M-16T	Managed Ethernet switch with 2 Gigabit SFP slots, 2 100Base-FX ports, multi mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2GX-6S-18T	Managed Ethernet switch with 2 Gigabit SFP slots, 6 100Base-FX ports, single mode, FC/SC/ST connector, 18 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature

Model	Description
SICOM3024-2GX-6M-18T	Managed Ethernet switch with 2 Gigabit SFP slots, 6 100Base-FX ports, multi mode, FC/SC/ST connector, 18 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2GX-4S-20T	Managed Ethernet switch with 2 Gigabit SFP slots, 4 100Base-FX ports, single mode, FC/SC/ST connector, 20 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2GX-4M-20T	Managed Ethernet switch with 2 Gigabit SFP slots, 4 100Base-FX ports, multi mode, FC/SC/ST connector, 20 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2GX-2S-22T	Managed Ethernet switch with 2 Gigabit SFP slots, 2 100Base-FX ports, single mode, FC/SC/ST connector, 22 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2GX-2M-22T	Managed Ethernet switch with 2 Gigabit SFP slots, 2 100Base-FX ports, multi mode, FC/SC/ST connector, 22 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2GX-24T	Managed Ethernet switch with 2 Gigabit SFP slots, 24 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-4GX-24T	Managed Ethernet switch with 4 Gigabit SFP slots, 24 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-8S-16T	Managed Ethernet switch with 8 100Base-FX ports, single mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-8M-16T	Managed Ethernet switch with 8 100Base-FX ports, multi mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-6S-16T	Managed Ethernet switch with 6 100Base-FX ports, single mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-6M-16T	Managed Ethernet switch with 6 100Base-FX ports, multi mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-4S-16T	Managed Ethernet switch with 4 100Base-FX ports, single mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-4M-16T	Managed Ethernet switch with 4 100Base-FX ports, multi mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2S-16T	Managed Ethernet switch with 2 100Base-FX ports, single mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2M-16T	Managed Ethernet switch with 2 100Base-FX ports, multi mode, FC/SC/ST connector, 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-6S-18T	Managed Ethernet switch with 6 100Base-FX ports, single mode, FC/SC/ST connector, 18 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature

Model	Description
SICOM3024-6M-18T	Managed Ethernet switch with 6 100Base-FX ports, multi mode, FC/SC/ST connector, 18 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-4S-20T	Managed Ethernet switch with 4 100Base-FX ports, single mode, FC/SC/ST connector, 20 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-4M-20T	Managed Ethernet switch with 4 100Base-FX ports, multi mode, FC/SC/ST connector, 20 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2S-22T	Managed Ethernet switch with 2 100Base-FX ports, single mode, FC/SC/ST connector, 22 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-2M-22T	Managed Ethernet switch with 2 100Base-FX ports, multi mode, FC/SC/ST connector, 22 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-24T	Managed Ethernet switch with 24 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SICOM3024-16T	Managed Ethernet switch with 16 10/100Base-T(X) ports, RJ45 connector, rack mounting, 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, single power supply, -40 to 85°C operating temperature
SFP Modules	
SM-GSFP-TX/RJ45	SFP module with 1 x 10/100/1000M port, RJ45, 100m
SM-GSFP-SX/LC-550	SFP module with 1 x 1000M multi mode port, LC, 850nm, 550m
SM-GSFP-LX/LC-550	SFP module with 1 x 1000M multi mode port, LC, 1310nm, 550m
SM-GSFP-LX/LC-10	SFP module with 1 x 1000M single mode port, LC, 1310nm, 10km
SM-GSFP-LX/LC-15	SFP module with 1 x 1000M single mode port, LC, 1310nm, 15km
SM-GSFP-LH/LC-40	SFP module with 1 x 1000M single mode port, LC, 1310nm, 40km
SM-GSFP-ZX/LC-40	SFP module with 1 x 1000M single mode port, LC, 1550nm, 40km
SM-GSFP-ZX/LC-60	SFP module with 1 x 1000M single mode port, LC, 1550nm, 60km
SM-GSFP-ZX/LC-80	SFP module with 1 x 1000M single mode port, LC, 1550nm, 80km

Power Supply: 12VDC, 24VDC, 48VDC, 110VDC, 110VAC/220VAC/220VDC, dual redundant power supplies (optional)

Order Codes

SICOM3024 - - - - - - -

G FX Connector Distance TX PS1 PS2

G: Gigabit Ports

- 4GX=4 Gigabit SFP ports
 - 4GE=4 10/100/1000Base-TX RJ45 ports
 - 2GX=2 Gigabit SFP ports
 - 2GE=2 10/100/1000Base-TX RJ45 ports
 - None=No Gigabit port
- (Please refer to the order information on available port combinations.)

FX: Fiber Ports

2M= 2 multi mode fiber ports

4M= 4 multi mode fiber ports

6M= 6 multi mode fiber ports

8M= 8 multi mode fiber ports

2S= 2 single mode fiber ports

4S= 4 single mode fiber ports

6S= 6 single mode fiber ports

8S= 8 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)

TX: Copper Ports

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

18T= 18 10/100Base-T(X) ports, RJ45 connector

20T= 20 10/100BaseT(X) ports, RJ45 connector

22T= 22 10/100BaseT(X) ports, RJ45 connector

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

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)

Example Order Codes

SICOM3024-2GX-4S-SC-20T-24-24

2 Gigabit SFP ports, 4 single mode fiber ports with SC connector, 1310nm 40km, 20 10/100Base TX RJ45 ports, and dual redundant 18-36VDC power supplies.

Note: Please contact sales for different prices.