

SICOM3024SM

24+4G Port POE Modular Managed Industrial Ethernet Switch

CE,FCC, ROHS
Chinese State Grid Certification**Overview**

SICOM3024SM is a Gigabit modular managed industrial Ethernet switch which supports up to 24 high-power PSE feeding ports. It supports DT-Ring and DT-Ring+ with recovery time less than 50ms. Its powerful network management system supports CLI, Telnet, WEB, SNMP, OPC and network topology auto-generation. The reliable short lagging function, the function of no packet loss in long-time full load running and in Goose message real-time transmission make SICOM3024SM quite suitable for digital substations and other fields.

Features

1. Support high-power PSE feeding output of DC48V and DC24V qualified with IEEE802.3af.
2. Modular design, support up to 24 100Base-FX ports and 4 1000Base SFP ports.
3. Support DT-Ring protocol suite (recovery time<50ms), RSTP/STP(IEEE802.1w/d) redundant protocol.
4. Support ring, chain, star, and tangent ring network topologies.
5. Advanced ring topology protocol avoiding broadcast storm.
6. Support IGMP Snooping, port mirroring, QoS, VLAN, ACL.
7. Support multiple management functions including CLI, TELNET, WEB, SNMP V1/V2 and OPC etc.
8. Support centralized management software, network topology generated automatically.
9. Safe MAC and port binding function, support static FDB.
10. Bandwidth setting function enables port bandwidth limitation.
11. Improve network monitoring ability through RMON(group 1,2,3,and 9)
12. Broadcast storm control and unicast attack detection.
13. EMC industrial level 4, specially designed for harsh electromagnetic interference environment.
14. Abundant power supply options, able to provide redundant DC power supply.
15. Support relay alarm output port alarming the lose of power
16. Unified management software for SICOM series: Kyvision3.0.
17. Working temperature: -40 to 85°C(-40 to 185°F)
18. Ribbed Aluminum housing for heat dissipation, fanless design
19. Rack-mounting (19 inch 2U) installation.
20. IP40 protection class.

Technical Specifications**Standard**

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

Network

Ring, chain, star and tangent ring network topology.

Interface

Gigabit port: Up to 4 x 100/1000M SFP ports with 1000Base-SX/LX/LH/ZX module of LC connector, or 4 x 10/100/1000Base-TX with RJ45 connectors.
Fiber port: Up to 24 x 100Base-FX ports with FC/SC/ST connectors.
Electrical ports: Up to 24 10/100Base-TX
Console: RS232, RJ45
Power feeding ports: up to 24 10/100Base-TX adaptive Ethernet ports
PSE mode: 1,2,3,6; 4,5,7,8 optional
Max output power per each port: 29W
Max output power in the end of 100m cable of each port: 15.6W
Output voltage: 24VDC,48VDC

Performance

MAC Address Table Size: 8K
Backplane switching capacity: 12.8G

Cable

Twisted Pair: 0-100m (Standard CAT5, CAT5e network cable)
Multi Mode Fiber: 1310nm, 0-5km (100Base-FX); 1310nm 0-2km (1000Base-FX)
Single Mode Fiber: 1310nm, 0-40km; 1550nm, 0-80km

Power Requirements

Power input: 24VDC (18-36VDC), 48VDC(36-72VDC), 110VDC(82-185VDC), 220VAC/DC(85-264VAC/120-370VDC), redundant input, Input interface:5-core 9.5mm space inserting interface, AC power plug
Power consumption: <45W

Physical Characteristics

Casing: IP40 protection
Ribbed Aluminum housing fanless design
Dimensions(WxHxD): 482.6x88x245mm (19x3.46x9.65 in.)
Weight: 6000g (13.228 pounds)
Installation: Rack mounted 19 inch 2U

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

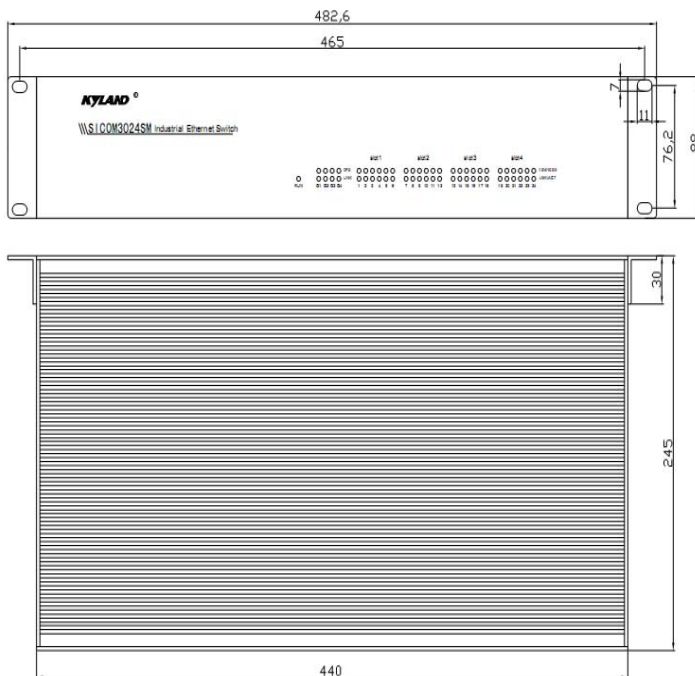
Warranty

5 Years

Ordering Information

Model	Description
SICOM3024SM Host	4GX+24TX, up to 24x100Base-TX and 4x1000Base SFP ports, 4 expansion slots, independent feeding input
SM3-6FE-SC/ST/FC	6 x 100Base-FX SM/MM
SM3-5FE-1FE-FX/TX	5 x 100Base-FX SM/MM or 1 x 10/100Base-TX
SM3-4FE-2FE-FX/TX	4 x 100Base-FX SM/MM or 2 x 10/100Base-TX
SM3-3FE-3FE-FX/TX	3 x 100Base-FX SM/MM or 3 x 10/100Base-TX
SM3-2FE-4FE-FX/TX	2 x 100Base-FX SM/MM or 4 x 10/100Base-TX
SM3-1FE-5FE-FX/TX	1 x 100Base-FX SM/MM or 5 x 10/100Base-TX
SM3-6FE-TX	6 x 10/100Base-TX
SM3-6FE-TX-PSE	6 x 10/100Base-TX with POE function

Mechanical Drawing



Power supply: 24VDC, 48VDC, 110VDC, 220VAC/DC

Optional SFP module:

- SM-GSFP-TX/RJ45: SFP interface module with 1 x 10/100/1000M port, RJ45 connector, 100m
- SM-GSFP-LX/LC-550: SFP interface module with 1 x 1000M multi mode port, LC connector, 1310nm, 550m
- SM-GSFP-LX/LC-10: SFP interface module with 1 x 1000M single mode port, LC connector, 1310nm, 10km
- SM-GSFP-LH/LC-40: SFP interface module with 1 x 1000M single mode port, LC connector, 1310nm, 40km
- SM-GSFP-ZX/LC-60: SFP interface module with 1 x 1000M single mode port, LC connector, 1550nm, 60km
- SM-GSFP-ZX/LC-80: SFP interface module with 1 x 1000M single mode port, LC connector, 1550nm, 80km
- SM-F/GSFP-LX/LC-15: SFP interface module with 1 x 100/1000M adaptive single mode port, LC connector, 1550nm, 80km