

SICOM3024-M12

24+4G Port Robust Managed Industrial Ethernet Switch

CE, FCC, ROHS
Chinese Military Certification**Overview**

SICOM3024-M12 is a high-performance network-managed industrial Ethernet switch specially designed by KYLAND for industrial and military applications supporting up to 24 10/100Base-T(X) ports with M12 connectors and 4 1000Base-LX/LH ports with YMF15-LC connectors. It also supports DT-Ring protocol and Kyvision management software.

Features

1. 4 1000Base-LX/LH ports with YMF15-LC connectors and 24 10/100Base-T(X) ports with M12 connectors
2. Supports DT-Ring protocols (recovery time<50ms), RSTP/STP (IEEE802.1w/d) redundant protocol
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
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. Supports multiple management functions 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 for military usage
12. Supports relay alarm output for the failure of power
13. Conforms with Chinese military standards of GJB150 and GJB151A-97
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 3U) installation
17. IP43 protection class
18. Unified management software for SICOM series: Kyvision3.0

Technical Specifications**Standard**

IEEE802.3z
IEEE 802.3u
IEEE 802.3
IEEE802.3x
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: 4 x 1000Base-LX/LH ports with YMF15-LC connectors
Fast Ethernet Ports: 24 x 10/100Base-T(X) ports with M12 connectors
CONSOLE Interface: RS232, M12
Alarm Port: 250VAC/350VDC Max; 120mA Max, M12
LED Indicators: RUN, PWR1, PWR2; LINK/ACT (G1-G4); LINK/ACT, 10M/100M (1-24)

Performance

Back plane switching capacity: 12.8G
MAC Address Table Size: 8K

Cable

Twisted Pair: 0-100m
Multi Mode Fiber: 1310nm, 0-5km (100Mbps); 1310nm 0-2km (100Mbps)
Single Mode Fiber: 1310nm, 0-40km; 1550nm, 0-80km

Power Requirements

Power input: 24VDC (18-36VDC), 48VDC (36-72VDC), 110VDC 220VDC, 220VAC, dual redundant power supplies
Power terminal: Y50DP40
Power consumption: <20W

Physical Characteristics

Casing: Ribbed aluminum case (fanless)
Protection class: IP43
Installation: 19 inch 3U rack-mounting
Dimensions (WxHxD): 482.6x132.5x245mm (19x5.22x9.65 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
IEC61000-4-16 (Common mode conduct): 30V cont. 300V, 1s
FCC CFR47 Part 15/EN55022: Class A & B
Chinese Military Standard GJB151A-97, GJB150 parameters
CE101: 25Hz-10KHz power lead conducted emission
CE102: 10KHz-10MHz power lead conducted emission
CS101: 25Hz-50KHz power lead conducted susceptibility
CS114: 10KHz-400MHz bulk cable injection conducted susceptibility

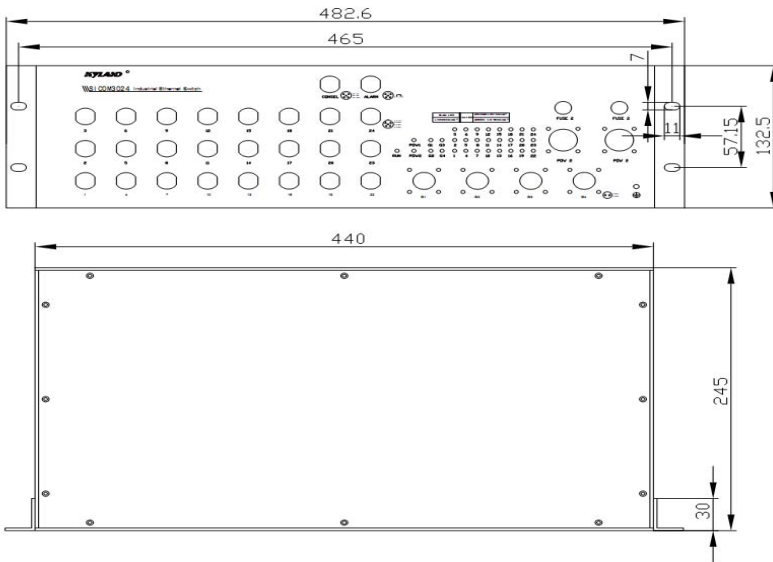
CS116: 10KHz-100MHz cable and power cable damped sine transient conduction susceptibility
RE101: 25Hz-100kHz magnetic field radiation emission
RE102: 10kHz-18GHz electric field radiation emission
RS101: 25Hz-100kHz magnetic field radiation susceptibility
RS103: 10kHz-18GHz electric field radiation susceptibility

GJB150-11-86: Anti salt fog
GJB150-6-86: Temperature
GJB150-16-86: Vibration
CE, FCC, RoHS, Chinese Military Certification

MTBF
35 years

Warranty
5 years

Mechanical Drawing



Ordering Information

Model	Description
SICOM3024-24T-M12	Managed Ethernet switch with 24 10/100Base-T(X) ports, M12 connector, -40 to 85°C operating temperature
SICOM3024-4G-24T-M12	Managed Ethernet switch with 4 1000Base-LX/LH ports, YMF15-LC connector, 24 10/100Base-T(X) ports, M12 connector, -40 to 85°C operating temperature

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

Accessories

Connector	Port
M12-4 Pin-99-3729-810-04	10/100Base-T(X) ports, CONSOLE Interface, Alarm Port
3 Pin round-Y50DP40-1203TJ41	Power Port
YMF Adapter Flange	
YMF15F02C1D40N-S	YMF Fiber Port
Optical Fiber Jumper with Ruggedized Connector	
YMF15T02B1P40N-2FC-C5*2-2S3/0.3-single mode-3m YMF15T02B1P40N-YMF15T02B1P40N-C5*2-S5-single mode-5m YMF15T02B1P40N-DLC-C5*2-2S5/0.15-single mode-5m YMF15T02B1P11N-YMF15T02B1P11N-C5*2-S3-single mode-3m YMF15T02B1P11N-DLC-C5*2-2S3/0.15-single mode-3m	YMF Fiber port

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