

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-TX with M12 connector and 4 1000Base-LX/LH ports with M15-LC connector. It also supports DT-Ring protocol and Kyvision management software.

Features

1. 24 10/100Base-TX with M12 connector.
2. 4 1000Base-LX/LC with M15-LC connector, can be connected into two gigabit rings.
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. Bind width setting function enables port band width 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. Corresponds with Chinese military standards of GJB150 and GJB151A-97
18. Working temperature: -40 to 85°C(-40 to 185°F)
19. Ribbed Aluminum housing for heat dissipation, fanless design
20. Rack-mounting (19 inch 3U) installation.
21. IP43 protection class.

Technical Specifications**Standard**

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

Network

Ring, chain, star and tangent ring network topology.

Interface

Gigabit port: Up to 4 x 1000Base-LX/LH with M15-LC connector
Electrical ports: Up to 24 10/100Base-TX with M12 connector
Console: RS232, RJ45

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)
Input interface: M12
Power consumption: <20W

Physical Characteristics

Casing: IP43 protection
Ribbed Aluminum housing fanless design
Dimensions(WxHxD): 482.6x132.5x245mm (19x5.22x9.65 in.)
Weight: 6000g (13.228 pounds)
Installation: Rack mounted 19 inch 3U

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

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

Ordering Information

SICOM3024-24TX-M12: 24 x 10/100Base-TX with M12
SICOM3024-4G-24TX-M12: 4 x 1000Base-LX/LH with M15-LC,
24 x 10/100Base-TX with M12

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

Mechanical Drawing

