

**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 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. 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  
IEEE802.1wIEEE802.1p  
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 (1000Mbps)  
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

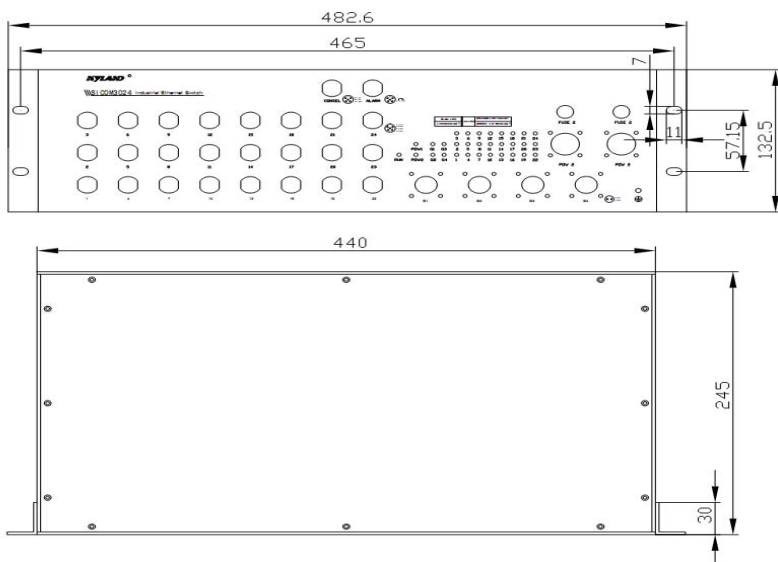
### MTBF

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<br>YMF15T02B1P40N-YMF15T02B1P40N-C5*2-S5-single mode-5m<br>YMF15T02B1P40N-DLC-C5*2-2S5/0.15-single mode-5m<br>YMF15T02B1P11N-YMF15T02B1P11N-C5*2-S3-single mode-3m<br>YMF15T02B1P11N-DLC-C5*2-2S3/0.15-single mode-3m | YMF Fiber port                                       |

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