

**SICOM8000-M12**

24+4G Port IP67 Managed Industrial Ethernet Switch

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

SICOM8000-M12 IP67 managed industrial Ethernet switch supports 24 10/100Base-T(X) ports with M12 connectors and 4 1000Base-LX/LH ports with YMF15-LC connectors. As a member of Kyland SICOM series, it supports DT-Ring protocol and Kyvision management software. It is specially designed for the harshest environments which require high protection class and it passed Chinese military certification.

**Features**

1. Supports 4 1000Base-LX/LH ports with YMF15-LC connectors, 24 10/100Base-T(X) ports with M12 connectors
2. Supports DT-Ring protocols (recovery time<50ms)
3. Supports 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. Improves network monitoring ability through RMON (group 1, 2, 3 and 9)
10. Supports multiple management functions including CLI, TELNET, WEB, SNMP V1/V2/V3 and OPC
11. EMC industrial level 4, specially designed for harsh electromagnetic interference environment
12. Abundant power supply options, dual redundant power supplies for military usage
13. Relay alarm output for the failure of power supply
14. Complies with Chinese national military standard GJB150 and GJB151A-97
15. Operating temperature: -40 to 85°C (-40 to 185°F)
16. Ribbed aluminum case for heat dissipation (patent), fanless design
17. Wall mounting
18. IP67 protection class
19. Unified network management software for SICOM series: Kyvision3.0

**Technical Specifications****Standard**

IEEE802.3z  
IEEE802.3u  
IEEE802.3  
IEEE802.3x  
IEEE802.1d  
IEEE802.1w  
IEEE802.1p  
IEEE 802.1q  
Store and forward switching mode

**Network**

Ring, chain, star and tangent ring network topology

**Performance**

Backplane switching capacity: 12.8G  
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

**Interface**

Gigabit Ethernet Ports: 4 x 1000Base-LX/LH ports, YMF15-LC  
Fast Ethernet Ports: 24 x 10/100Base-T(X) ports, M12  
CONSOLE Interface: RS232, M12  
Alarm Port: 25VAC/350VDC Max; 120mA Max, M12  
LED Indicators: RUN, PWR; LINK/ACT (G1-G4); LINK/ACT, 10M/100M (1-24)

**Power Requirements**

Power input: 24VDC (18-36VDC), 48VDC (36-72VDC), 110VDC, 220VDC, 220VAC, dual redundant power supplies  
Power terminal: M12  
Power consumption: <20W

**Physical Characteristics**

Casing: Ribbed aluminum case (fanless)  
Protection class: IP67  
Installation: Wall mounting  
Dimensions (WxHxD): 189x76x340 mm (7.44x2.99x13.39 in)  
Weight: 2.5kg (5.511 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): ±4KV power lead, ±2KV data lead  
IEC61000-4-5 (Surge): power lead ±4KV CM/ ±2KV DM, data lead ±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 susceptib  
 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-40GHz electric field radiation susceptibility  
 GJB150-11-86: Anti salt fog  
 GJB150-6-86: Temperature  
 GJB150-16-86: Vibration

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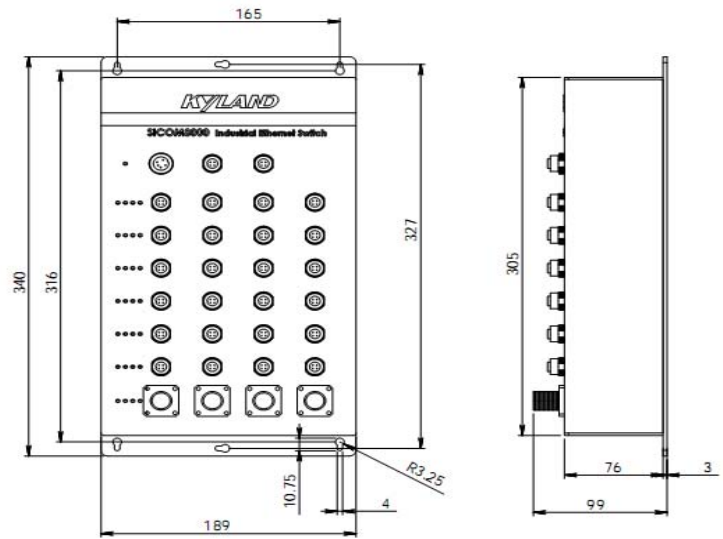
### MTBF

35 years

### Warranty

5 years

## Mechanical Drawing



## Ordering Information

Model	Description
SICOM8000-24T-M12	IP67 managed Ethernet switch with 24 10/100Base-T(X) ports, M12 connector, -40 to 85°C operating temperature
SICOM8000-4G-24T-M12	IP67 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, 220VDC, 220VAC, dual redundant power supplies

## Accessories

Connector	Port
M12-4 Pin-99-3729-810-04	10/100Base-T(X) ports, CONSOLE interface Alarm port
M16-5 Pin-99-5613-15-05	Power port
<b>YMF Adapter Flange</b>	
YMF15F02C1D40N-S	YMF fiber port
<b>Optical Fiber Jumper with Ruggedized Connector</b>	
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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