

**SICOM8010**

10 Port IP67 M12 Managed POE Industrial Ethernet Switch

EN50155  
CE, FCC, RoHS**Overview**

The SICOM8010 series IP67 M12 managed POE industrial Ethernet switches are designed for industrial applications in harsh environments. The M12 connectors ensure tight, robust connections, and guarantee reliable operation, even for applications that are subject to high vibration and shock. The SICOM8010 series Ethernet switches provide 8 fast Ethernet M12 ports with 8 IEEE 802.3af compliant PoE (Power-over-Ethernet) ports and 2 Gigabit copper uplink ports. The switches are classified as power source equipment (PSE) and provide both standard IEEE802.3af 48VDC PoE with up to 15.4 watts of power per port and 22VDC-57VDC PoE with up to 25 watts of power per port.

The SICOM8010 switches can be used to power IEEE 802.3af compliant powered devices (PDs), eliminating the need for additional wiring. The switches support IP67 protection class with an operating temperature range of -40 to 85°C. The SICOM8010 switches are compliant with EN50155, EN55022 Class A&B and FCC CFR47 Part 15, making them suitable for a variety of industrial applications.

As one member of Kyland SICOM series, it supports DT-Ring protocol and Kyvision management software. And the centralized management function is also optional.

**Features**

1. Eight 10/100Base-TX PoE (optional) copper ports with M12 connectors.
2. Two 10/100/1000Base-TX copper ports with M12 connectors.
3. Supports POE function complied with IEEE802.3af.
4. Support DT-Ring protocols(recovery time<50ms), RSTP/STP(IEEE802.1w/d) redundant ring protocols.
5. Support flexible network topologies such as Ring, Chain, Star and Tangent Ring.
6. Advanced ring topology protocol avoiding broadcast storm.
7. Support IGMP Snooping, port mirroring, QoS, VLAN, ACL.
8. Support multiple management functions including CLI, TELNET, WEB, SNMP V1/V2/V3 and OPC.
9. Support centralized management software, network topology generated automatically.

10. Supports TACACS+, Radius, SSH/SSL and improve Network Security functions.
11. Improve network monitoring ability through RMON(group 1,2,3,and 9)
12. EMC industrial level 4, specially designed for harsh electro-magnetic interference environment.
13. Abundant power supply options.
14. Uniform network management software of SICOM series: Kyvision3.0
15. Operating temperature: -40 to 85°C(-40 to 185°F)
16. Ribbed Aluminium heat dissipation (patent), fanless design
17. Wall mounting
18. IP67 protection class

**Technical Specifications****Standard**

IEEE802.3  
IEEE802.3u  
IEEE802.3x  
IEEE802.3af  
Store and forward switching mode

**Network**

Chain, star and ring network topology.

**Interface**

Two 10/100/1000Base-TX copper ports with M12 connectors (Optional)  
Eight 100Base-TX copper ports with M12 connectors and POE function (Optional)

**Cable**

Twisted Pair: 100m (Standard CAT5 and CAT5e network cable)

**Power Requirements**

Power input: Universal power supply 22VDC-57VDC (24VDC, 48VDC) with POE function, and universal power supply 18VDC-72VDC without POE function, dual redundant power inputs  
Input interface: M12  
Power consumption: <12W (POE power output not included)  
PoE output voltage: 22VDC-57VDC (24VDC, 48VDC)  
PoE output current: >550mA/port  
PoE output power consumption: >25W (related to the input voltage)

**Physical Characteristics**

Casing: IP67 protection  
Fanless design  
Dimensions(WxHxD): 130x279x68.5mm (5.12x10.98x2.70 in.)  
Weight: 1500g (3.307pounds)  
Installation: Wall mounting

**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  
IEC61000-4-5(Surge): power lead ±4KV CM/ ±2KV DM, data lead ±2KV  
IEC61000-4-6(CS): 3V(10KHZ-150KHZ), 10V(150KHZ-80MHz)

IEC61000-4-10(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), EN50155, EN50121-4(Railway Applications)

IEC61373 (Anti vibration and shock)

CE,FCC,RoHS

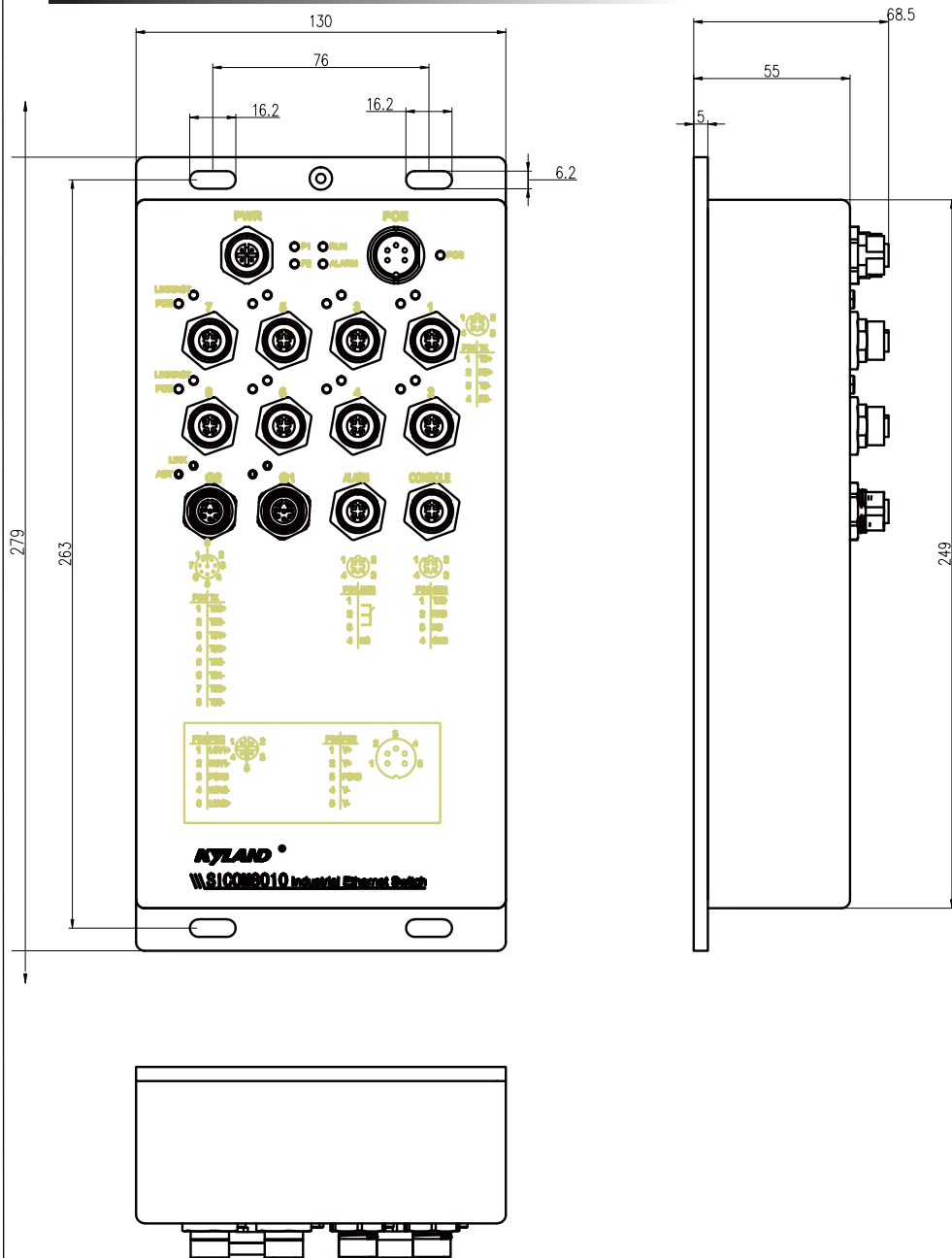
### MTBF

35 years

### Warranty

5 Years

## Mechanical Drawing



**Ordering Information**

Model	Description
SICOM8010-8T-M12-UM	Unmanaged, 8 10/100Base-TX M12 copper ports
SICOM8010-8T-M12	Managed, 8 10/100Base-TX M12 copper ports
SICOM8010-8T-4P-M12-UM	Unmanaged, 2 Gigabit M12 copper ports, 4 10/100Base-TX POE M12 copper ports, 4 10/100Base-TX M12 copper ports
SICOM8010-8T-4P-M12	Managed, 4 10/100Base-TX POE M12 copper ports, 4 10/100Base-TX M12 copper ports
SICOM8010-8T-8P-M12-UM	Unmanaged, 8 10/100Base-TX POE M12 copper ports
SICOM8010-8T-8P-M12	Managed, 8 10/100Base-TX POE M12 copper ports
SICOM8010-2GE-8T-M12-UM	Unmanaged, 2 Gigabit M12 copper ports, 8 10/100Base-TX M12 copper ports
SICOM8010-2GE-8T-M12	Managed, 2 Gigabit M12 copper ports, 8 10/100Base-TX M12 copper ports
SICOM8010-2GE-8T-4P-M12-UM	Unmanaged, 2 Gigabit M12 copper ports, 4 10/100Base-TX POE M12 copper ports, 4 10/100Base-TX M12 copper ports
SICOM8010-2GE-8T-4P-M12	Managed, 2 Gigabit M12 copper ports, 4 10/100Base-TX POE M12 copper ports, 4 10/100Base-TX M12 copper ports
SICOM8010-2GE-8T-8P-M12-UM	Unmanaged, 2 Gigabit M12 copper ports, 8 10/100Base-TX POE M12 copper ports
SICOM8010-2GE-8T-8P-M12	Managed, 2 Gigabit M12 copper ports, 8 10/100Base-TX POE M12 copper ports

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