

SICOM3009A

9 Port Layer 2 Managed DIN-Rail Switches



- 3 fast Ethernet fiber/RJ45 optional ports, 6 10/100Base-T(X) ports
- Supports DT-Ring, DRP and RSTP protocols
- Supports one-key recovery
- Provides Mini USB Console port
- Support cable check
- IEC61850-3 & IEEE1613 (KEMA certified)
- UL508, Class I Div 2, CE, FCC



Overview

SICOM3009A is one of Kyland green low power consumption industrial Ethernet switch series. It is equipped with 3 100Base-FX optic ports and 6 10/100Base-TX copper ports, making it ideal for building a fast Ethernet fiber optic ring and leaving a spare fiber port for uplink use. The SICOM3009A series, certified by CE, FCC, UL508 and CID2, support DRP (recovery time<20ms), DT-Ring (recovery time<50ms), RSTP, VLAN, multicast, QoS, SSH, SSL and many other Layer 2 software features, and support CLI, Telnet, Web management methods, Kyvision centralized management based on SNMPv1/v2c/v3. It is especially designed for harsh environments with wide operattemperature range, EMC level 4, IP40 protection class, strong vibration-resistant mounting clip for DIN-Rail installation, and can be deployed in wind power, distribution network automation, transportation, oil & gas and many other industrial applications.

Software Functions

Switching

- Support VLAN, PVLAN
- Support GVRP
- Support port trunking
- Support port flow control
- Support port speed limit
- Support broadcast storm control

Redundancy

- Support DT-Ring, DT-Ring+, DT-VLAN with the recovery time<50ms
- Support DRP with the recovery time<20ms
- Support STP/RSTP

Multicast

- Support IGMP Snooping,
- Support GMRP
- Support static multicast

Network Security

- Support HTTPs/SSL
- Support SSH
- Support TACACS+
- Support IEEE802.1X
- Support MAC address binding with switch ports

Service Quality

- Support SP, WRR queue scheduling

Management & Maintenance

- Support Console, Telnet, WEB management methods
- Support SNMPv1/v2c/v3, Kyvision centralized management
- Support software upgrade by FTP/TFTP
- Support power, port and ring alarm
- Support RMON
- Support port mirroring
- Support cable check
- Support Syslog
- Support LLDP
- Support Link-check

IP Management

- Support DHCP server/snooping/client, DHCP Option 82

Clock Management

- Support SNTP Client

Technical Specification

Technical Parameters

Standard

- ▼ IEEE 802.3i (10Base-T)
- ▼ IEEE 802.3u (100Base-T and 100Base-FX)
- ▼ IEEE 802.3x (Flow Control)
- ▼ IEEE 802.1p (Class of Service)
- ▼ IEEE 802.1Q (VLAN)
- ▼ IEEE 802.1w (RSTP)
- ▼ IEEE802.1X

Switch Properties

Priority Queues	4
Number of VLANs	256
VLAN ID	1-4093
Number of Multicast Groups	256
MAC Table	8K
Packet Buffer	1Mbit
Packet Forwarding Rate	1.4 Mpps
Switching Delay	<10µs

Interface

Fast Ethernet Port

- ▼ 100Base-FX, SM/MM, SC/ST/FC connector
- ▼ 10/100Base-T(X), RJ45 port

Console Port Mini USB

Alarm Contact

- ▼ 3-pin 5.08mm-spacing plug-in terminal block, 250VAC/220VDC Max, 2A Max

LED

LEDs on Front Panel

- ▼ Running LED: Run
- ▼ Alarm LED: Alarm (12/24/48VDC model)
- ▼ Power LED: PWR1, PWR2
- ▼ Ring LED: Ring
- ▼ Interface LED: Link/ACT, Speed (RJ45 port); Link/ACT (Fiber port)

Button

Reset: Reboot and restore default configuration

Power Requirements

Power Input

- ▼ 24-48VDC
- ▼ 12-24VDC

- ▼ 100-240VAC, 50/60Hz; 110-220VDC

Power Terminal

- ▼ 5-pin 5.08mm-spacing plug-in terminal block (12/24/48VDC)
- ▼ 3-pin 5.08mm-spacing plug-in terminal block (220VAC/DC)

Power Consumption	<8.1W
Overload Protection	Support
Reverse Protection	Support
Redundancy Protection	Support (12/24/48VDC)

Physical Characteristics

Housing	Metal
Cooling	Natural convection, fanless
Protection Class	IP40
Dimension	<ul style="list-style-type: none"> ▼ 53.6mm×135mm×106.5mm (W×H×D) (12/24/48VDC) ▼ 66mm×135mm×106.5mm (W×H×D) (220VAC/DC)
Weight	0.76Kg
Mounting	DIN-Rail or Panel Mounting

Environmental Limits

Operating Temperature

- ▼ -40°C to +85°C (12/24/48VDC)
- ▼ -40°C to +75°C (220VAC/DC)

Storage Temperature -40°C to +85°C

Ambient Relative Humidity 5-95% (non-condensing)

Warranty

MTBF	350,877 hrs
Warranty	5 years

Approvals

UL508*, Class I Div 2*, CE, FCC

*: UL certified max operating temperature is 75°C.

Industrial Standards

EMI

- ▼ FCC CFR47 Part 15, EN55022/CISPR22, Class A

EMS

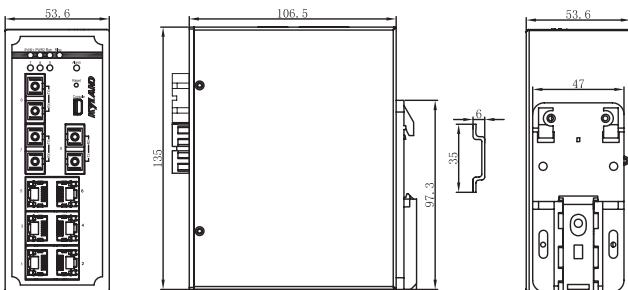
- ▼ IEC61000-4-2 (ESD) ±8kV(contact), ±15kV(air)
- ▼ IEC61000-4-3 (RS) 10V/m (80MHz-2GHz)
- ▼ IEC61000-4-4 (EFT) Power Port: ±4kV; Data Port: ±2kV
- ▼ IEC61000-4-5 (Surge) Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV
- ▼ IEC61000-4-6 (CS) 10V (150kHz-80MHz)

Machinery

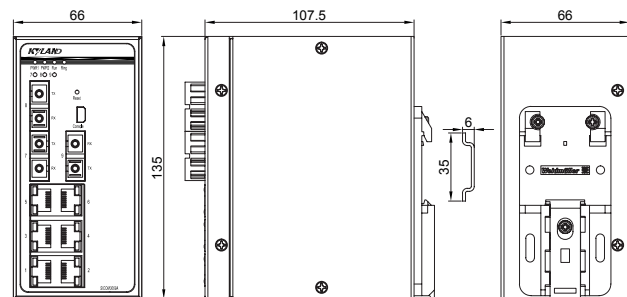
- ▼ IEC60068-2-6 (Vibration)
- ▼ IEC60068-2-27 (Shock)
- ▼ IEC60068-2-32 (Free Fall)

Mechanical Drawing

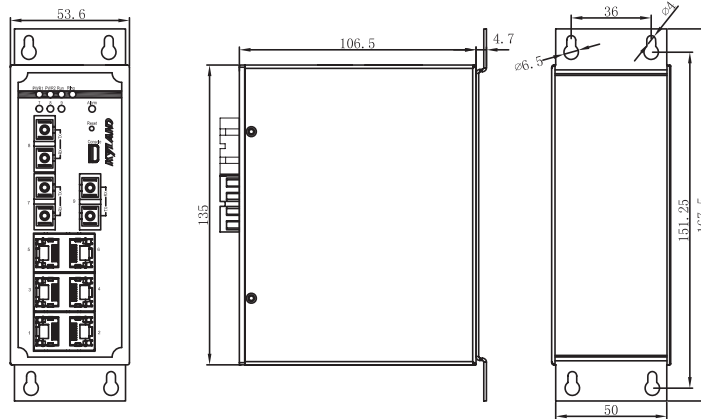
Din Rail Mounting (Low voltage version)



Din Rail Mounting (High voltage version)



Panel Mounting (Low voltage version)



Ordering Information

SICOM3009A-Ports-Connector-PS1-PS2

SICOM3009A-Ports-Connector-PS1

Ports

3S6T	3×100Base-FX, single mode fiber ports; 6×10/100Base-T(X) RJ45 ports
3M6T	3×100Base-FX, multi mode fiber port; 6×10/100Base-T(X) RJ45 ports
2S6T	2×100Base-FX, single mode fiber ports; 6×10/100Base-T(X) RJ45 ports
2M6T	2×100Base-FX, multi mode fiber port; 6×10/100Base-T(X) RJ45 ports
1S7T	1×100Base-FX, single mode fiber port; 7×10/100Base-T(X) RJ45 ports
1M7T	1×100Base-FX, multi mode fiber port; 7×10/100Base-T(X) RJ45 ports
8T	8×10/100Base-T(X) RJ45 ports

Connector

100M fiber port specifications

SC05	SC connector, multi-mode, 1310nm, 5km
ST05	ST connector, multi-mode, 1310nm, 5km
FC05	FC connector, multi-mode, 1310nm, 5km
SC40	SC connector, single-mode, 1310nm, 40km
ST40	ST connector, single-mode, 1310nm, 40km
FC40	FC connector, single-mode, 1310nm, 40km
SC60	SC connector, single-mode, 1310nm, 60km
SC80	SC connector, single-mode, 1550nm, 80km
None	No 100M fiber port

PS1-PS2

L2-L2	24-48VDC, redundant power inputs
L5-L5	12-24VDC, redundant power inputs

PS1

HV	100-240VAC, 50/60Hz; 110-220VDC, single power input
----	---

Accessories

Accessory model

Description

DT-BGAZ-02	Panel for panel mounting
DT-FCZ-RJ45-01	Dustproof cover for RJ45 port
DT-XL- Mini USB -USB-2m	Mini USB to USB cable for Console management, 2m