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-resistent 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
ReverseProtection	Support
Redundancy Protection	Support (12/24/48VDC)

Physical Characteristics

Housing	Metal
Cooling	Natural convection, fanless
Protection Class	IP40

Dimension
- ▼ 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
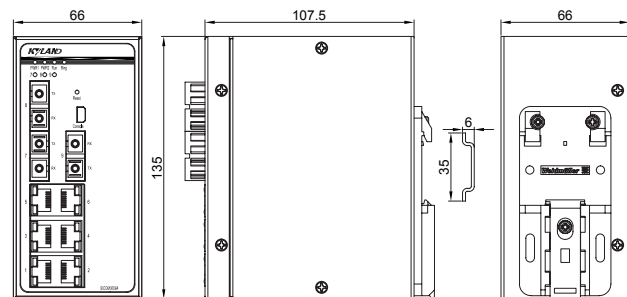- ▼ IEC61000-4-6(CS) 10V(150kHz–80MHz)

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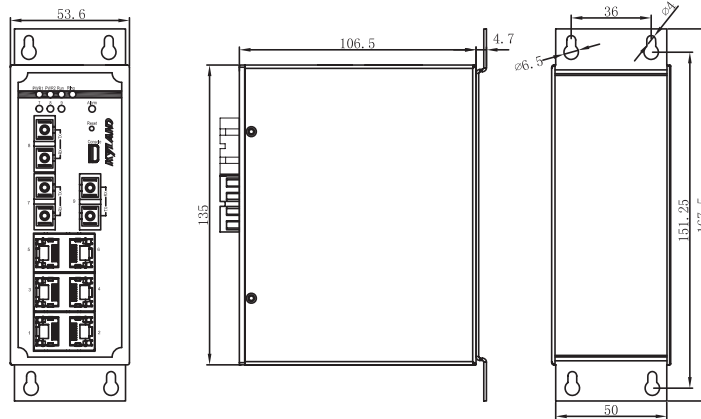- ▼ IEC60068-2-32 (Free Fall)

⨠ Mechanical Drawing

Din Rail Mounting (Low voltage version)
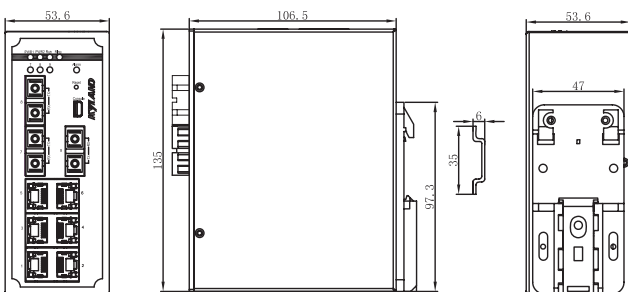
Din Rail Mounting (High voltage version)

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