

# SICOM3009A

## 9 port layer 2 managed DIN-Rail switches



### » 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. SICOM3009A support DT-Ring (recovery time<50ms), DRP/DHP (recovery time<20ms), 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 operating temperature range, EMC level 4, IP40 protection class, strong vibration-resistant mounting clip for DIN-Rail installation, It certified by CE, FCC, UL508 and CID2, KEMA, and can be deployed in wind power, distribution network automation, transportation, oil & gas and many other industrial applications.

### » Key Features

3 fast Ethernet fiber/RJ45 optional ports, 6 10/100Base-T(X) ports

Supports DT-Ring, DRP/DHP and RSTP protocols

Supports one-key recovery

Provides Mini USB Console port

Support cable check

IEC61850-3 & IEEE1613 (KEMA certified)

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

### » Product Specifications

**>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/DHP 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 loop detection

Support CRC protection

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 Specifications**

##### **-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:<5μs

##### **-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:

100-240VAC, 50/60Hz; 110-220VDC(85-264VAC/77-300VDC)

24-48VDC(18-72VDC)

12-24VDC(9-36VDC)

Power Terminal:

5-pin 5.08mm-spacing plug-in terminal block

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×107.5mm (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)

### **-Quality Assurance**

MTBF: 350,877 hrs

Warranty: 5 years

### **-Approvals**

KEMA, CE(EMC), CE(LVD), FCC: Models with HV:100-240VAC,50/60Hz;110-220VDC

UL508, Class I Div 2, CE(EMC), FCC: Models with L2:24-48VDC and L5:12-24VDC

IEC 60950-1, EN 60950-1

### **-Industry Standard**

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)

Climatic environmental:

IEC60068-2-1 Cold test

IEC60068-2-2 Dry heat test

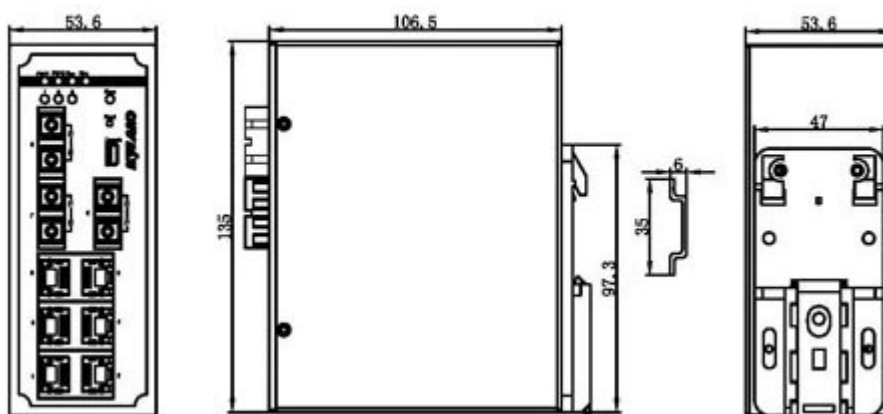
IEC60068-2-14 Change of temperature test

IEC60068-2-30 Damp heat cyclic test

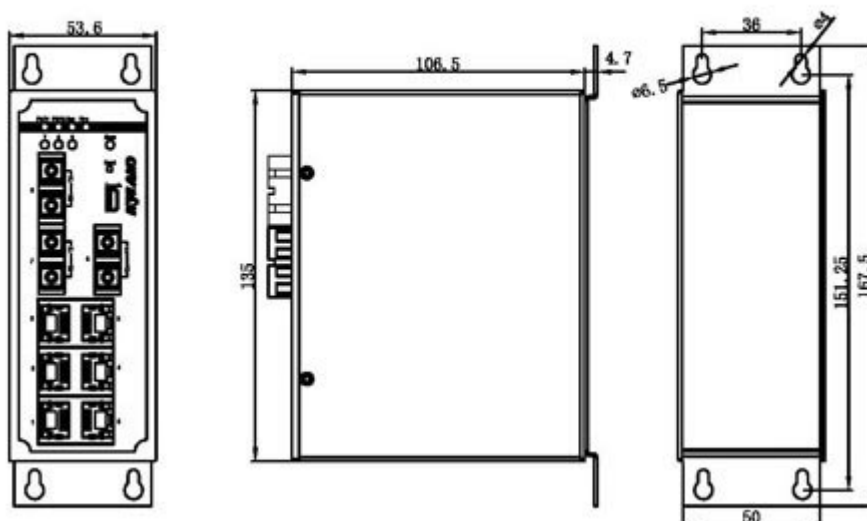
IEC60068-2-78 Damp heat steady state test

## » Mechanical Drawing

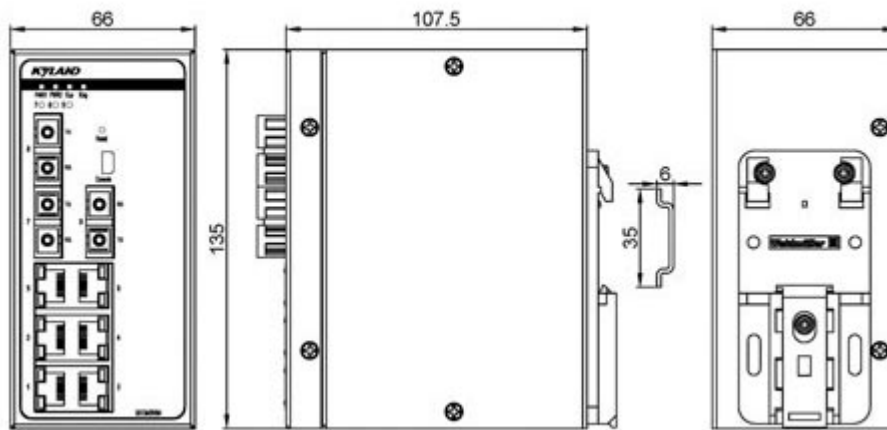
### SICOM3009A DIN Rail Mounting



### SICOM3009A Panel Mounting



## SICOM3009A-HV DIN Rail Mounting



### Ordering Information

#### SICOM3009A-Ports-Connector-PS1-PS2

#### SICOM3009A-Ports-Connector-PS1

##### Ports

3S6T	3x100Base-FX, single mode fiber port; 6x10/100Base-T(X) RJ45 ports
3M6T	3x100Base-FX, multi mode fiber port; 6x10/100Base-T(X) RJ45 ports
2S6T	2x100Base-FX, single mode fiber port; 6x10/100Base-T(X) RJ45 ports
2M6T	2x100Base-FX, multi mode fiber port; 6x10/100Base-T(X) RJ45 ports
1S7T	1x100Base-FX, single mode fiber port; 7x10/100Base-T(X) RJ45 ports
1M7T	1x100Base-FX, multi mode fiber port; 7x10/100Base-T(X) RJ45 ports
8T	8x10/100Base-T(X) RJ45 ports

##### Connector

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
NA	No 100Base-FX fiber port

##### PS1-PS2

L2-L2	24-48VDC (18-72VDC), redundant power inputs
L5-L5	12-24VDC (9-36VDC), redundant power inputs

##### PS1

HV	100-240VAC, 50/60Hz; 110-220VDC (85-264VAC/77-300VDC), single power input
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##### Accessories

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

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