

# SICOM3000A

## 8+2G Port Layer 2 Managed DIN-Rail Ethernet Switches



- 2 100/1000Base-X SFP ports and 8 10/100Base-T(X) copper ports
- Supports DT-Ring, DRP and STP/RSTP/MSTP protocols
- Supports DDM (SFP ports)
- Supports one-key recovery
- Provides Mini USB Console port
- CE, FCC certificates

### » Overview

The SICOM3000A is one of Kyland green low power consumption industrial Ethernet switch series equipped with 2 100/1000Base-X SFP ports and 8 10/100Base-T(X) copper ports. The SICOM3000A series supports DT-Ring (recovery time<50ms), DRP (recovery time<20ms), STP/RSTP/MSTP, VLAN, multicast, QoS, SSH and many other Layer 2 software features. It also supports CLI, Telnet, Web management methods, Kyvision centralized management based on SNMPv1/v2c/v3. The SICOM3000A series is especially designed for harsh environments with wide operating temperature range, EMC level 3, IP30 protection class, strong vibration-resistant mounting clip for DIN-Rail installation, and can be deployed in factory automation, transportation, oil & gas and many other industrial applications.

### » Software Functions

#### Switching

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

#### Redundancy protocol

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

#### Management & Maintenance

Supports IGMP Snooping,  
Supports static multicast

### Network Security

- Supports HTTPS/SSL
- Supports SSH
- Supports TACACS+
- Supports IEEE802.1X
- Supports RADIUS
- Supports user grading

### Service Quality

- Supports SP, WRR queue scheduling
- Supports ACL

### Management and Maintenance

- Supports Console, Telnet, WEB management methods
- Supports SNMPv1/v2c/v3, Kyvision centralized management
- Supports software upgrade by SFTP/HTTP
- Supports Power alarm, IP/MAC conflict alarm, Memory/CPU usage alarm, Port alarm, Ring alarm, Port traffic alarm, CRC error and packet lose alarm, SFP port RX power alarm and TX power alarm
- Supports DDM (SFP ports)
- Support loop detection
- Supports RMON
- Supports port mirroring
- Supports Syslog
- Supports LLDP
- Supports Link-check

### IP Management

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

### Clock Management

- Supports SNTP Client

## Product Specifications

### Technical Specifications

- Standard
- IEEE 802.3i (10Base-T)
  - IEEE 802.3u (100Base-T and 100Base-FX)
  - IEEE 802.3z (1000Base-SX/LX)
  - IEEE 802.3ad (port aggregation)
  - IEEE 802.3x (Flow Control)
  - IEEE 802.1p (Class of Service)
  - IEEE 802.1Q (VLAN)
  - IEEE 802.1w (RSTP)
  - IEEE 802.1s (MSTP)
  - IEEE 802.1x

### Switch Properties

Priority Queues	8
Number of VLANs	4094
VLAN ID	1~4094
Number of Multicast Groups	64
MAC Table	8K
Packet Buffer	4Mbit
Packet Forwarding Rate	4.2Mpps
Switching Delay	<5μs

### Interface

- Gigabit ports
- 100/1000Base-X, SFP slot
- 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

- LED on front panel
- Running LED: Run
  - Alarm LED: Alarm
  - 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(18-72VDC),
- Power terminal
- 5-pin 5.08mm-spacing plug-in terminal block
- Power consumption <9W
- Overload protection Support
- Reverse connection protection Support
- Redundancy protection Support

**Physical Characteristics**

Housing	Metal
Cooling	Natural cooling, fanless
Protection Class	IP30
Dimensions(WxHxD)	
▼ 53.6mmx135mmx106.5mm(WxHxD)	
Weight	0.84Kg
Mounting	DIN-Rail or Panel Mounting

**Environmental Limits**

Operating temperature	-40°C to +75°C
Storage temperature	-40°C to +85°C
Ambient Relative Humidity	5% to 95% (non-condensing)

**Warranty**

MTBF	2749462h
Warranty	5 years

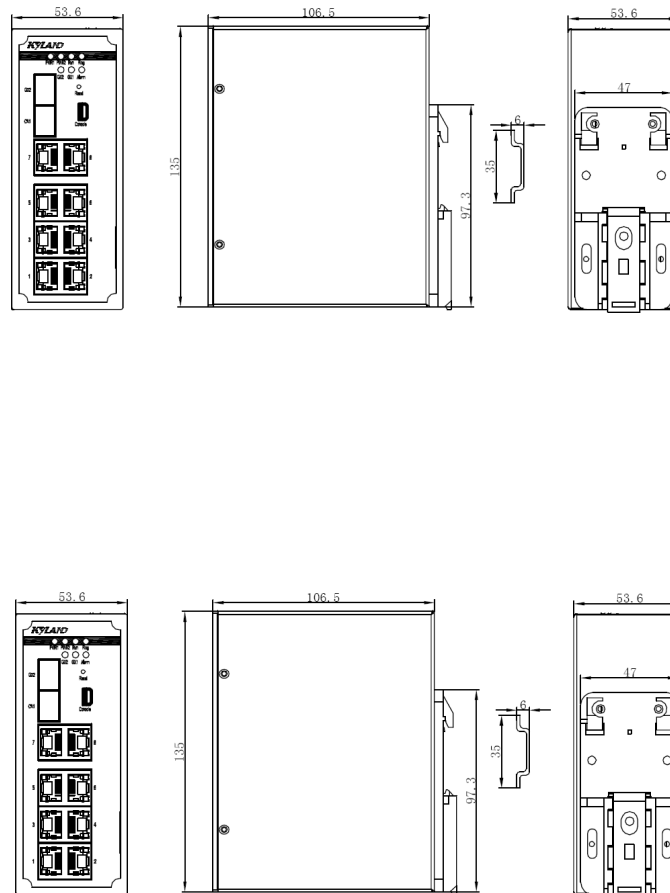
**Certificates**

CE(EMC), FCC: Models with L3:24VDC.

**Industry Standard**

- EMI
- ▼ FCC CFR47 Part 15,EN55022/CISPR22,Class A
- EMS
- ▼ IEC61000-4-2(ESD) ±6kV(contact),±8kV(air)
  - ▼ IEC61000-4-3(RS) 10V/m(80MHz~2GHz)
  - ▼ IEC61000-4-4(EFT) Power Port:±2kV;Data Port:±1kV
  - ▼ IEC61000-4-5(Surge) Power Port:±1kV/DM,±2kV/CM; Data Port:±1kV
  - ▼ IEC61000-4-6(CS) 10V(150kHz~80MHz)
- Machinery
- ▼ IEC60068-2-6 (Vibration)
  - ▼ IEC60068-2-27 (Shock)
  - ▼ IEC60068-2-32 (Free Fall)

**Mechanical Drawing**



## » Ordering Information

### SICOM3000A-Ports-Connector-PS1-PS2

Code Definition	Ordering Codes
<b>Ports</b>	
2GX8T	2x100/1000Base-X SFPports; 8x10/100Base-T(X) RJ45 ports
2S6T	2x100Base-FX, single mode fiber ports; 6x10/100Base-T(X) RJ45 ports
2M6T	2x100Base-FX, multi mode fiber ports; 6x10/100Base-T(X) RJ45 ports
2S4T	2x100Base-FX, single mode fiber ports; 4x10/100Base-T(X) RJ45 ports
2M4T	2x100Base-FX, multi mode fiber ports; 4x10/100Base-T(X) RJ45 ports
1S4T	1x100Base-FX, single mode fiber port; 4x10/100Base-T(X) RJ45 ports
1M4T	1x100Base-FX, multi mode fiber port; 4x10/100Base-T(X) RJ45 ports
8T	8x10/100Base-T(X) RJ45 ports
6T	6x10/100Base-T(X) RJ45 ports
<b>Connector: (for 100Base-FX fiber port)</b>	
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
<b>PS1-PS2:(Redundant Power Inputs)</b>	
L3-L3	24VDC(18-36VDC), redundant power inputs

## » 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