

# SICOM6000A

12G/8+4G port layer 3 managed DIN-Rail switches



## » Overview

SICOM6000A is Layer 3 DIN-Rail Managed Industrial Ethernet Switch. It provides 4 100Base-X, 1000Base-X SFP ports; 8 10/100/1000Base-T(X) RJ45 ports. SICOM6000A supports DT-Ring (recovery time<50ms), DRP/DHP (recovery time<20ms), MSTP/RSTP/STP, VLAN, multicast, QoS, SSH and many other Layer 2 software features, and supports VRRP, OSPF, RIP, IGMP, PIM, static routing and many other Layer 3 software features, and supports CLI, Telnet, Web management methods, Kyvision centralized management based on SNMPv1/v2c/v3. SICOM6000A is especially designed for harsh environments with wide operating temperature range, EMC level 3, IP40 protection class, strong vibration-resistant mounting clip for DIN-Rail installation, and can be deployed in Transportation, Oil & gas and many other industrial applications.

## » Key Features

Supports 100Base-X, 1000Base-X SFP ports

Supports DT-Ring, DRP/DHP, STP/RSTP/MSTP

Supports VRRP, OSPF, RIP, IGMP, PIM, static routing

Supports HTTPS/SSL, SSH, TACACS+, IEEE802.1X, RADIUS

Supports DDM(SFP port)

Supports IP40 protection

## **» Product Specifications**

### **>Software functions**

#### **-Switching**

Supports VLAN,PVLAN

Supports port trunking

Supports port flow control

Supports speed limit

Supports broadcast storm control

#### **-Redundancy**

Supports DT-Ring, DT-Ring+, DT-VLAN with the recovery time<50ms

Supports DRP/DHP, with the recovery time<20ms

Supports STP/RSTP/MSTP

#### **-Multicast**

Supports IGMP Snooping

Supports GMRP

Supports static multicast

#### **-Routing**

Supports VRRP

Supports RIPv1/v2

Supports OSPFv2

Supports static routing

Supports IGMP

Supports PIM-SM, PIM-DM

#### **-Network Security**

Supports IEEE802.1X

Supports HTTPs/SSL

Supports SSH

Supports SFTP Client

Supports RADIUS

Supports TACACS+

Supports User Classification

Supports MAC address binding with switch ports

Supports port isolate

#### **-Service Quality**

Supports 802.1p, TOS/DiffServ

Supports SP, WRR queue scheduling

Supports ACL

#### **-Management and Maintenance**

Supports Console, Telnet, WEB management methods

Supports SNMPv1/v2c/v3, Kyvison centralized management

Supports software upgrade by FTP/TFTP

Supports IP/MAC conflict alarm, power supply alarm, port alarm, ring alarm

Supports DDM (SFP port)

Supports RMON

Supports port mirroring

Supports Syslog

Supports LLDP

#### **-IP management**

Supports DHCP server/snooping/client, DHCP Option 82

#### **-Clock Management**

Supports SNTP Client

#### **>Product Specifications**

##### **-Technical Parameter**

Standard

IEEE 802.3i (10Base-T)

IEEE 802.3u (100Base-T and 100Base-FX)

IEEE 802.3ab (1000Base-T)

IEEE 802.3z (1000Base-SX/LX)

IEEE 802.3ad (Link aggregation)

IEEE 802.3x (Flow Control)

IEEE 802.1p (Class of Service)

IEEE 802.1Q (VLAN)

IEEE 802.1d (STP)

IEEE 802.1w (RSTP)

IEEE 802.1s (MSTP)

IEEE 802.1x (Network Access Control)

IEEE 802.1ab (LLDP)

### **-Switch Properties**

Priority Queues 8

Number of VLANs 4K

VLAN ID 1-4093

Number of Multicast Groups 256

Routing Table 3.9K

MAC Table 16K

Packet Buffer 12Mbit

Packet Forwarding Rate 7.2Mpps(4GX8T) 17.9Mpps(4GX8GE)

Switching Delay <10us

Jumbo Frame Size 10KB

### **-Interface**

Gigabit Port

100Base-X, 1000Base-X, 10/100/1000Base-T(X) SFP slot

10/100/1000Base-T(X), RJ45 port, Auto MDI/MDI-X connection

Fast Ethernet Port

10/100Base-T(X), RJ45 port, Auto MDI/MDI-X connection

Console Port

RJ45, RS232

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

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 Requirement**

Power Input 24-48VDC(18-72VDC)

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

Power Consumption <18W (4GX8GE), <14W (4GX8T)

Overload Protection Support

Reverse Protection Support

Redundancy Protection Support

#### **-Physical Characteristics**

Housing Metal

Cooling Natural convection, fanless

Protection Class IP40

Dimension 88mm×135mm×137mm (W×H×D)

Weight 1.50Kg

Mounting DIN-Rail or Panel Mounting

#### **-Environmental Limit**

Operating Temperature -40°C ~ +70°C

Storage Temperature -40°C ~ +85°C

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

#### **-Warranty**

MTBF 1009661h

Warranty 5 years

#### **-Approvals**

CE, FCC

EMC: EN 55032/35, EN 61000-6-4, EN 61000-6-2

**-Industrial Standard**

EMI

FCC CFR47 Part 15, EN55032/CISPR22, Class A

EMS

IEC61000-4-2(ESD)  $\pm 8\text{kV}$ (contact),  $\pm 15\text{kV}$ (air)

IEC61000-4-3(RS) 10V/m(80MHz ~ 2GHz)

IEC61000-4-4(EFT) Power Port:  $\pm 4\text{kV}$ ; Data Port:  $\pm 2\text{kV}$

IEC61000-4-5(Surge) Power Port:  $\pm 2\text{kV}/\text{DM}$ ,  $\pm 4\text{kV}/\text{CM}$ ; Data Port:  $\pm 2\text{kV}$

IEC61000-4-6(CS) 10V(150kHz ~ 80MHz)

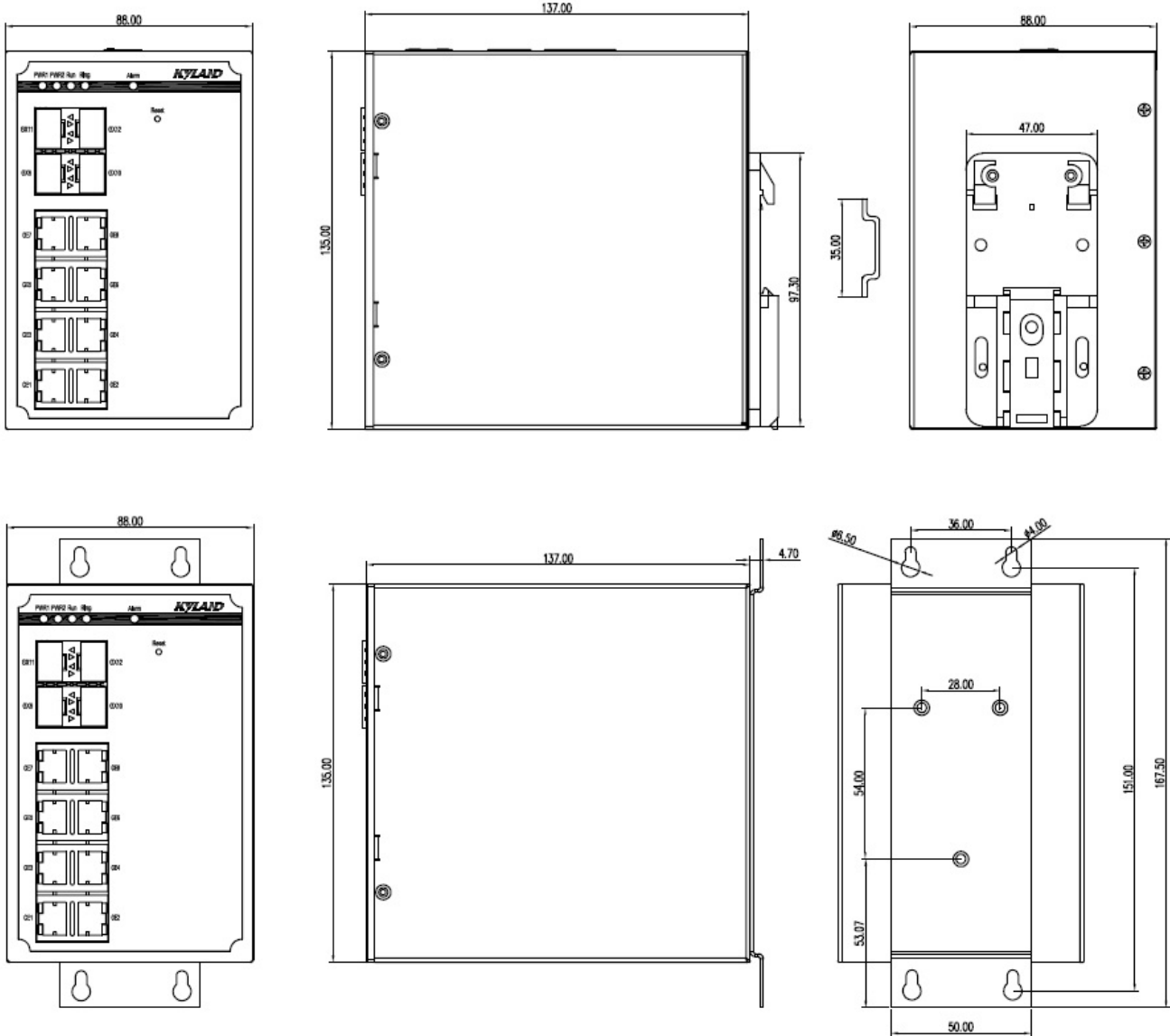
Machinery

IEC60068-2-6 (vibration)

IEC60068-2-27 (shock)

IEC60068-2-32 (free fall)

 **Mechanical Drawing**



» Ordering Information

Ordering Information

Product Model	SICOM6000A-Ports-PS1-PS2
Code definition	Code selection
Ports	4GX8T= 4×100Base-X, 1000Base-X, 10/100/1000Base-T(X) SFP ports; 8×10/100Base-T(X) RJ45 ports 2GX8T= 2×100Base-X, 1000Base-X, 10/100/1000Base-T(X) SFP ports; 8×10/100Base-T(X) RJ45 ports 8T= 8×10/100Base-T(X) RJ45 ports 4GX8GE= 4×100Base-X, 1000Base-X, 10/100/1000Base-T(X) SFP ports; 8×10/100/1000Base-T(X) RJ45 ports 2GX8GE= 2×100Base-X, 1000Base-X, 10/100/1000Base-T(X) SFP ports; 8×10/100/1000Base-T(X) RJ45 ports 8GE= 8×10/100/1000Base-T(X) RJ45 ports
PS1-PS2	L2-L2=24-48VDC (18-72VDC), redundant power inputs

**Accessories**

Accessory Model	Description
SFP module	See the selection table of industrial SFP module.
DT-BGAZ-02	Panel for panel mounting
DT-FCZ-RJ45-01	Single-port RJ45 dust plug

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