

SICOM3000



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

- 2 Gigabit SFP slots, 2 Fast Ethernet fiber/RJ45 optional ports and 6 10/100Base-TX ports
- Supports DT-Ring protocols, DRP and RSTP
- Supports GMRP, DHCP, SNMP, QoS
- HTTPS, SSH enhance network security
- IEC61850-3 & IEEE1613 (Pending in KEMA)
- UL508 (Pending), Class I Div 2 (Pending), CE, FCC



» Overview

The SICOM3000 Series is an industrially hardened, fully managed Ethernet switch, providing two Gigabit SFP ports, two 100M fiber/copper optional ports and six Fast Ethernet copper ports. The SICOM3000 series provides a high level of immunity to electromagnetic interference and heavy electrical burst, surges typical of environments found in electric utility substations, railway trackside or in curb side traffic control cabinets. The operating temperature range from -40°C to 85°C, IP40 metal enclosure, 12V/24V/48V/220V power input types allows the SICOM series to be placed in almost any location. It supports DRP (recovery time<20ms), DT-Ring (recovery time<50ms), RSTP, VLAN, multicast, QoS, SSH, SSL and many other Layer 2 software features to increase network reliability, along with concentrative management based on Kyvision3.0, CLI, WEB interface.

» 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 802.3z (1000Base-SX/LX)
- ▼ IEEE802.3x (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	2Mbit
Packet Forwarding Rate	4.2Mpps
Switching Delay	<10μs

Interface

- Gigabit Port 1000Base-X, SFP slot
- Fast Ethernet Port
 - ▼ 100Base-FX, SM/MM, SC/ST/FC connector
 - ▼ 10/100Base-T(X), RJ45 port
- Console Port RS232,RJ45 connector
- 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
 - ▼ Interface LED: Link/ACT, Speed (RJ45 port); Link/ACT(Fiber port)

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
- Power Consumption <10W
- Overload Protection Support
- ReverseProtection Support
- Redundancy Protection Support (12/24/48VDC)

Physical Characteristics

Housing	Metal, fanless
Cooling	Natural convection, fanless
Protection Class	IP40
Dimension	75mm×140mm×123mm (W×H×D)
Weight	1.0Kg
Mounting	DIN-Rail or Panel Mounting

Environmental Limits

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

Warranty

Operating Temperature	223,350 hrs
Warranty	5 years

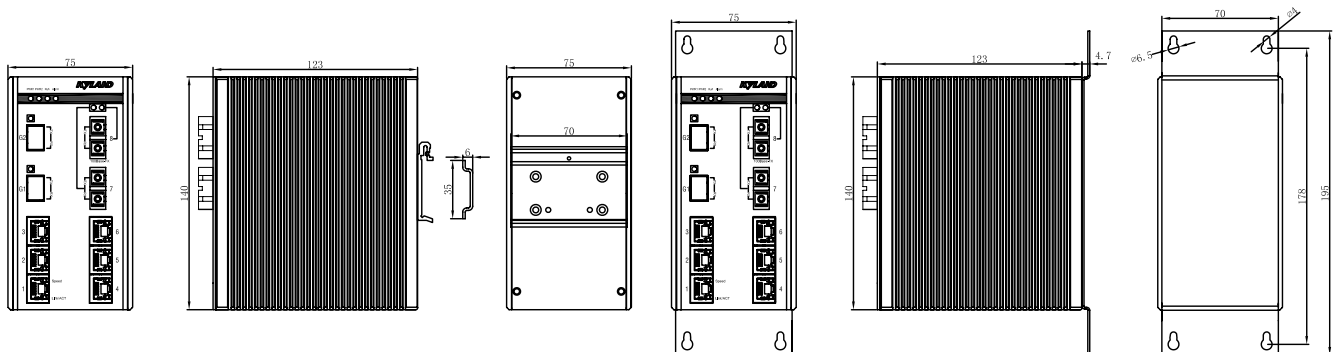
Approvals

UL508 (Pending), Class I Div 2 (Pending), CE, FCC

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



Optical Fiber

	100 BaseFX			
	Multi-mode	Single-mode, 40km	Single-mode, 60km	Single-mode, 80km
Wavelength	1310nm	1310nm	1310nm	1550nm
Tx Max.	-10dBm	-4dBm0	dBm	0dBm
Tx Min.	-20dBm	-7dBm	-3dBm	-5dBm
Rx Sensitivity	-32dBm	-34dBm	-34dBm	-34dBm
Saturation	-6dBm	-3dBm	-3dBm	-3dBm
Fiber Optical Cable	50/125µm	9/125µm	9/125µm	9/125µm
Max. Distance	5km	40km	60km	80km

Ordering Information

SICOM3000-Ports-Connector-PS1-PS2

SICOM3000-Ports-Connector-PS1

Ports

2GX2S6T	2×1000Base-X, SFP slots; 2×100Base-FX, single mode fiber ports; 6×10/100Base-T(X) RJ45 ports
2GX2M6T	2×1000Base-X, SFP slots; 2×100Base-FX, multi mode fiber ports; 6×10/100Base-T(X) RJ45 ports
2GX8T	2×1000Base-X, SFP slots; 8×10/100Base-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 ports; 6×10/100Base-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
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Accessories

Accessory model

Description

Gigabit SFP Module	Please refer to Gigabit SFP module ordering table
DT-BGAZ-05	Panel for panel mounting
DT-FCZ-RJ45-01	Dustproof cover for RJ45 port