SICOM3000S New
New Generation 8GP+4G Layer 2 managed DIN-Rail switches

⟫ Overview

SICOM3000S is Layer 2 DIN-Rail Managed PoE Industrial Ethernet Switch. SICOM3000S support 4 100/1000 SFP ports

for uplink and 8 1000M PoE ports. It supports IEEE802.3af and at for PoE function, and support 48VDC for power

supply. The PoE output is up to Max 240W.

SICOM3000S supports DT-Ring (recovery time<50ms), DRP/DHP (recovery time<20ms), STP/RSTP/MSTP, VLAN,

multicast, QoS, SSH and many other Layer 2 software features, and supports CLI, Telnet, Web management methods,

Kyvision centralized management based on SNMPv1/v2c/v3. SICOM3000S is especially designed for harsh

environments with wide operating temperature range, EMC level 3, IP40 protection class, strong vibration-resistent

mounting clip for DIN-Rail installation, and can be widely used in vehicle-road collaboration (V2X), petrochemical

industry TV, airport, station, port terminal video surveillance and many other industrial applications.

⟫ Key Features

Supports 4 100Base-X, 1000Base-X SFP ports, 8 10/100/1000Base-T(X) RJ45 PoE ports.

Support IEEE802.3af&at PoE Standard, PoE output is up to Max 240W.

Supports Redundancy protocols: DT-Ring (recovery time<50ms), DRP/DHP (recovery time<20ms), STP/RSTP/MSTP.

Supports MRP(PENDING)

Supports Network Security: HTTPS/SSL, SSH, TACACS+, IEEE802.1X, Radius, User Classification.

Supports CLI, Telnet, WEB management methods, Kyvision centralized management based on SNMPv1/v2c/v3.

Supports DDM (SFP port).

Supports IP40 protection.

Product Specifications

> **Software functions**
> **-Switching**

Supports VLAN

Supports GVRP

Supports port aggregation, LACP

Supports port flow control

Supports Rate limit based on flow

Supports Broadcast/Multicast/Unknown Unicast storm suppression

-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

Supports MRP(PENDING, will be released on July)

-Multicast

Supports IGMP snooping

Supports GMRP

Supports static multicast

Supports IGMPv1/v2/v3

-Network Security

Supports HTTPS/SSL

Supports SSH

Supports TACACS+

Supports IEEE802.1X

Supports RADIUS

Supports User Classification

Supports port isolate

Supports IP Source Guard

-Service Quality

Supports QoS, 802.1p(CoS), DSCP

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 FTP/TFTP

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, Temperature alarm

Supports DDM (SFP port)

Supports loop detection

Supports RMON

Supports port mirroring

Supports Syslog

Supports LLDP

Supports Link-check

-IP Management

Supports DHCP server/snooping/client

Supports DHCP Relay(option 82)

Supports ARP

-Clock Management

Supports SNTP Client

Supports NTP Client

-Routing protocol

Supports static routing

-PoE management

Support PoE port configuration and PD detection

Support PoE port power supply priority configuration

Support state query and alarm, remote management

>Technical Specification
-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)

IEEE 802.3af PoE

IEEE 802.3at PoE+

-Switch Properties

Priority Queues 8

Number of VLANs 4094

VLAN ID 1～4093

Number of Multicast Groups 511

MAC Table 8K

Packet Buffer 4.1Mbit

Packet Forwarding Rate 17.9Mpps

Switching Delay <5μs

Jumbo frame 10000 bytes

-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

IEEE 802.3af/at PoE Port Each PoE port provides max 15/30W feed power

V+ for pin 1, 2 and V- for pin 3,6(End-Span PSE)

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

Interface LED: Link/ACT, Speed (RJ45 port); Link/ACT, Speed (Fiber port)

PoE LED: POE1- POE8

-Button

Reset: Reboot and restore default configuration

-Power Requirement

Power Input

48VDC(18-57VDC)

18-45VDC for no PoE

45-57VDC for PoE(802.3af)

51-57VDC for PoE+(802.3at)

Power Terminal 4-pin 5.08 mm-spacing plug-in terminal block

PoE output Max 240W

Power Consumption <10W

Overload Protection Support

Reverse Protection Support

Redundancy Protection Support

-Physical Characteristics

Housing Metal

Cooling Natural convection, fanless

Protection Class IP40

Dimension 70mm×135mm×110mm (W×H×D)

Weight 1.0Kg

Mounting DIN-Rail or Panel Mounting

-Environmental Limit

Operating Temperature -40℃ ~ +75℃

Storage Temperature -40℃ ~ +85℃

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

-Warranty

Warranty 5 years

-Approvals

CE, FCC

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

Rail Traffic: EN 50121-4

-Industrial Standard

EMI:

FCC CFR47 Part 15,EN55032/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

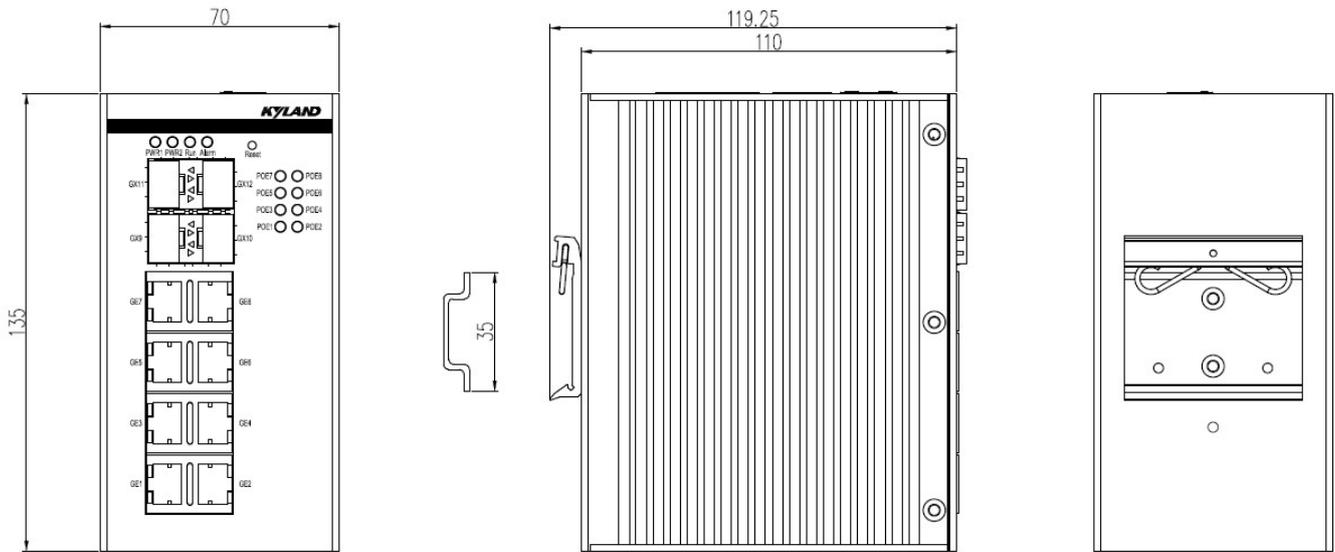IEC61000-4-6(CS) 10V(150kHz～80MHz)

Machinery:

IEC60068-2-6 (vibration)

IEC60068-2-27 (shock)

IEC60068-2-32 (free fall)

≫ Mechanical Drawing

≫ Ordering Information

Ordering Information

Product Model	SICOM3000S-Ports-PS1-PS2
Code definition	Code selection
Ports	4GX8GP= 4×100Base-X, 1000Base-X, 10/100/1000Base-T(X) SFP ports; 8×10/100/1000Base-T(X) RJ45 PoE ports
PS1-PS2	L16-L16=48VDC (18-57VDC), 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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