

SICOM3000L

Layer 2 managed DIN-Rail switches



» Overview

SICOM3000L is Layer 2 DIN-Rail Managed Industrial Ethernet Switch. It provides 4 10/100/1000Base-X SFP ports, 8 10/100/1000Base-T or 16 10/100/1000Base-T copper ports, 24/48 dual power input. SICOM3000L 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. SICOM3000L 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 Factory automation, Transportation, Oil & gas, wind power, distribution network automation and many other industrial applications.

» Key Features

Supports 4 100Base-X, 1000Base-X SFP ports, 8 10/100/1000Base-T or 16 10/100/1000Base-T copper ports
 Supports Redundancy protocols: DT-Ring (recovery time < 50ms), DRP/DHP (recovery time < 20ms), STP/RSTP/MSTP
 Supports Network Security: HTTPS/SSL, SSH, TACACS+, IEEE802.1X, Radius, User Classification, MAC address binding with switch ports

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, PVLAN

Supports GVRP

Supports port aggregation, LACP

Supports port flow control

Supports Rate limit based on flow (ACL Rate Limiter)

Supports Global broadcast storm suppression (QOS Storm Policing)

-Multicast

Supports IGMP snooping

Supports GMRP

Supports static multicast

-Routing protocol

Supports static routing

-Network Security

Supports HTTPS/SSL

Supports SSH

Supports TACACS+

Supports IEEE802.1X

Supports RADIUS

Supports User Classification

-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

Kytools IP manager 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

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

Supports DHCP option82/66/67

-Clock Management

Supports SNTP Client

Supports NTPv4 Server & Client

-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/

>Technical Specification

-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

Console Port RJ45, RS232

Alarm Contact 3-pin 5.08mm-spacing plug-in terminal block, 250VAC/220VDC Max, 2A Max

-Switch Properties

Priority Queues 8

Number of VLANs 4K

VLAN ID 1 ~ 4094

Number of Multicast Groups 8K

MAC Table 8K

Packet Buffer 4Mbit

Packet Forwarding Rate

17.9Mpps (4GX8GE)

29.8Mpps (4GX16GE)

Switching Delay <5 μ s

Jumbo frame 9.6KB

-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

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

24-48VDC(18-72VDC)

12-24VDC(9-36VDC)

Power Terminal

5-pin 5.08 mm-spacing plug-in terminal block (L2/L5)

3-pin 7.62 mm-spacing plug-in terminal block (HV)

Power Consumption

<16W (4GX8GE)

<20W (4GX16GE)

Overload Protection Support

Reverse Protection Support

Redundancy Protection Support (24/48VDC)

-Physical Characteristics

Housing Metal

Cooling Natural convection, fanless

Protection Class IP40

Dimension

88mm×135mm×137mm (4GX8GE) (W×H×D)

102mm×135mm×137mm (4GX16GE) (W×H×D)

Weight

1.5Kg (4GX8GE)

1.9Kg (4GX16GE)

Mounting DIN-Rail or Panel Mounting

-Environmental Limit

Operating Temperature -40°C ~ +75°C

Storage Temperature -40°C ~ +85°C

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

-Warranty

MTBF

1317486h (4GX8GE)

1097144h (4GX16GE)

Warranty 5 years

-Approvals

CE, FCC(Pending)

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

Rail Traffic: EN 50121-4

IEC 62368-1, EN 62368-1

-Industrial Standard

EMI:

FCC CFR47 Part 15,EN55032/CISPR22,Class A

EMS:

IEC61000-4-2(ESD) $\pm 6\text{kV}$ (contact), $\pm 8\text{kV}$ (air)

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

IEC61000-4-4(EFT) Power Port: $\pm 2\text{kV}$;Data Port: $\pm 1\text{kV}$

IEC61000-4-5(Surge) Power Port: $\pm 1\text{kV}/\text{DM}$, $\pm 2\text{kV}/\text{CM}$;Data Port: $\pm 1\text{kV}$ 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

-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)

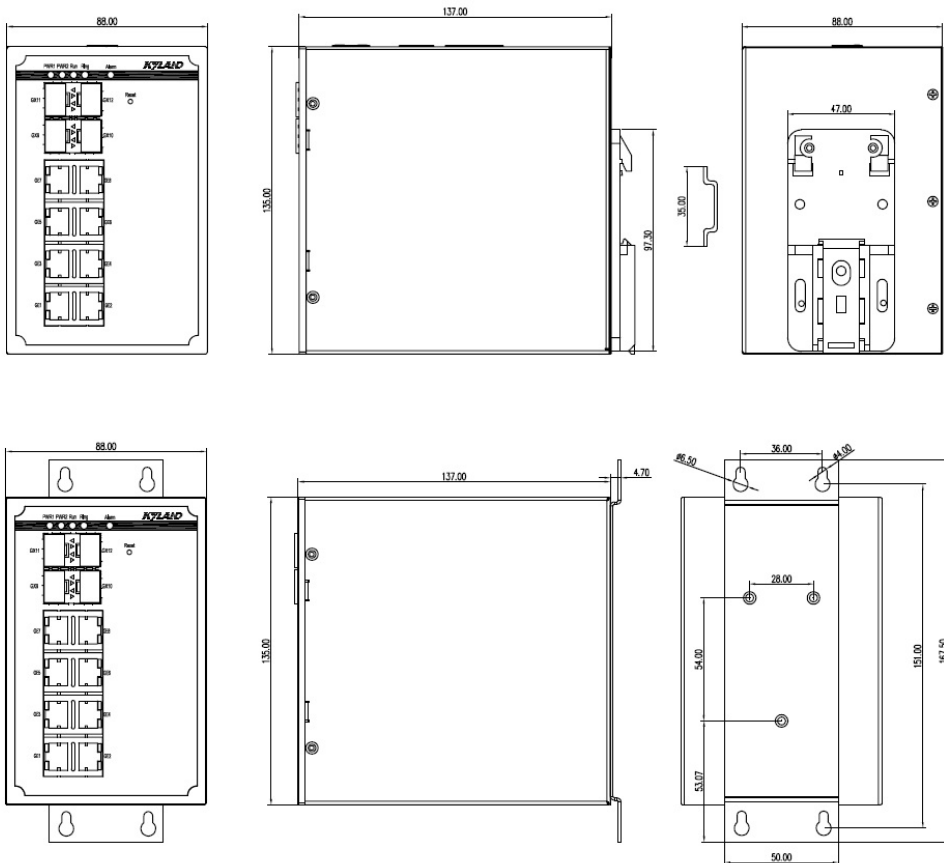
IEEE 802.1s (MSTP)

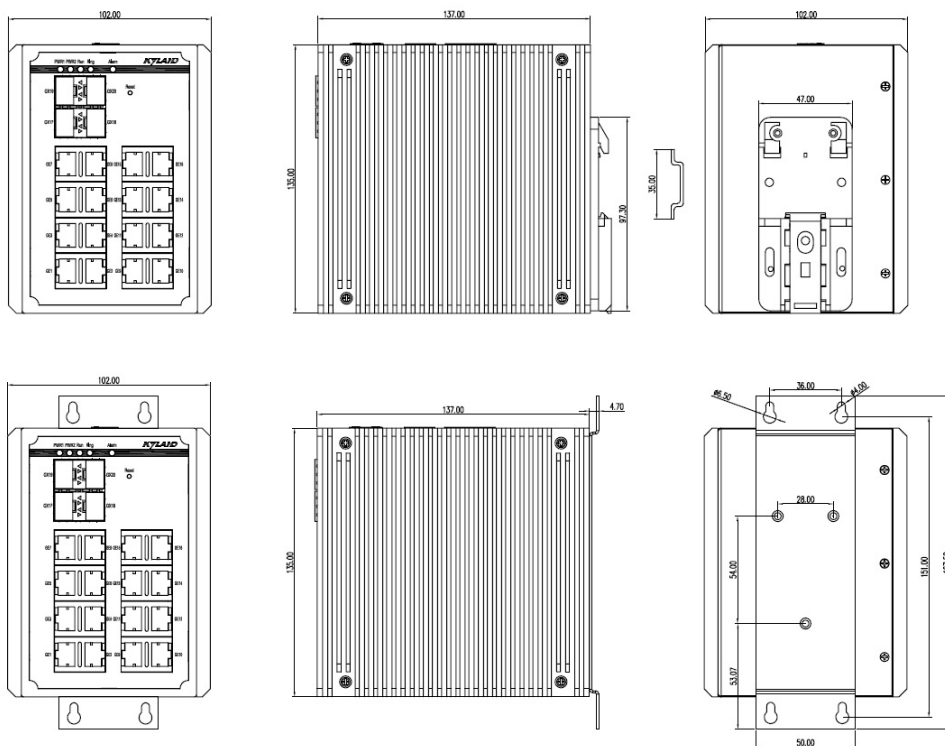
IEEE 802.1x (Network Access Control)

IEEE 802.1ab (LLDP)

» Mechanical Drawing

88mm×135mm×137mm(W×H×D):





Ordering Information

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| | |
|-----------------|--|
| Product Model | SICOM3000L-Ports-PS1-PS2 |
| Code definition | Code selection |
| Ports | <p>88mm×135mm×137mm(W×H×D): 4GX8GE= 4×100Base-X, 1000Base-X, 10/100/1000Base-T(X) SFP ports;</p> <p>102mm×135mm×137mm(W×H×D): 4GX16GE= 4×100Base-X, 1000Base-X, 10/100/1000Base-T(X) SFP ports; 16×10/100/1000Base-T(X) RJ45 ports</p> |
| PS1-PS2 | <p>L2-L2=24-48VDC (18-72VDC), redundant power inputs L5-L5=12-24VDC (9-36VDC), redundant power inputs HV=100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC), single power input</p> |

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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