SICOM3000A-LITE

8+2G port layer 2 managed DIN-Rail switches

Overview

SICOM3000A-LITE is low power consumption Layer 2 DIN-Rail Managed Industrial Ethernet Switch. It is equipped with 2 100/1000M SFP ports and 8 10/100Base-T(X) RJ45 ports. SICOM3000A-LITE 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. It supports DDM, EtherNet/IP and Modbus/TCP. It is especially designed for harsh environments with wide operating temperature range, EMC level 3, IP40 protection class, and can be deployed in Factory automation, Transportation, Oil & gas and many other industrial applications.

Key Features

2 100Base-X, 1000Base-X SFP ports and 8 10/100Base-T(X) RJ45 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 EtherNet/IP and Modbus/TCP protocols

Complies with cybersecurity IEC62443-4-2

Supports DDM

Supports IP40 protection

CE, FCC certificates

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)

-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

Supports IGMPv2/v3

-Network Security

Supports HTTPS/SSL

Supports SSH

Supports TACACS+

Supports IEEE802.1X

Supports RADIUS

Supports User Classification

Supports MAC address binding with switch ports

Complies with cybersecurity IEC62443-4-2

-Service Quality

Supports QoS, 802.1p(CoS), DSCP

Supports SP, WRR queue scheduling

Supports ACL

-Industrial protocol

Supports EtherNet/IP, Modbus/TCP

-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 port)

Supports loop detection

Supports RMON

Supports port mirroring

Supports Syslog

Supports LLDP

Supports Link-check

Supports EtherNet/IP, Modbus/TCP

Supports IPv4/IPv6

-IP management

Supports DHCP server/snooping/client, DHCP Option 82

Supports ARP

-Clock Management

Supports SNTP Client

>Product Specifications
-Technical Parameter

Standard

IEEE 802.3i (10Base-T)

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

IEEE 802.3z (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 1～4094

Number of Multicast Groups 8K

MAC Table 8K

Packet Buffer 4Mbit

Packet Forwarding Rate 4.2Mpps

Switching Delay <5μs

Jumbo Frame Size 9.6KB

-Interface

Gigabit Port

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

Fast Ethernet Port

100Base-FX, SM/MM, SC/ST/FC connector

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

Console Port Mini USB

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), 12-24VDC(12-36VDC)

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

Power Consumption <9W

Overload Protection Support

Reverse Protection Support

Redundancy Protection Support

-Physical Characteristics

Housing Metal

Cooling Natural convection, fanless

Protection Class IP40

Dimension 53.6mm×135mm×106.5mm (W×H×D)

Weight 0.84Kg

Mounting DIN-Rail or Panel Mounting

-Environmental Limit

Operating Temperature -40℃ ~ +75℃

Storage Temperature -40℃ ~ +85℃

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

-Warranty

MTBF 2671696h (2GX8T)

Warranty 5 years

-Approvals

CE, FCC

-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)

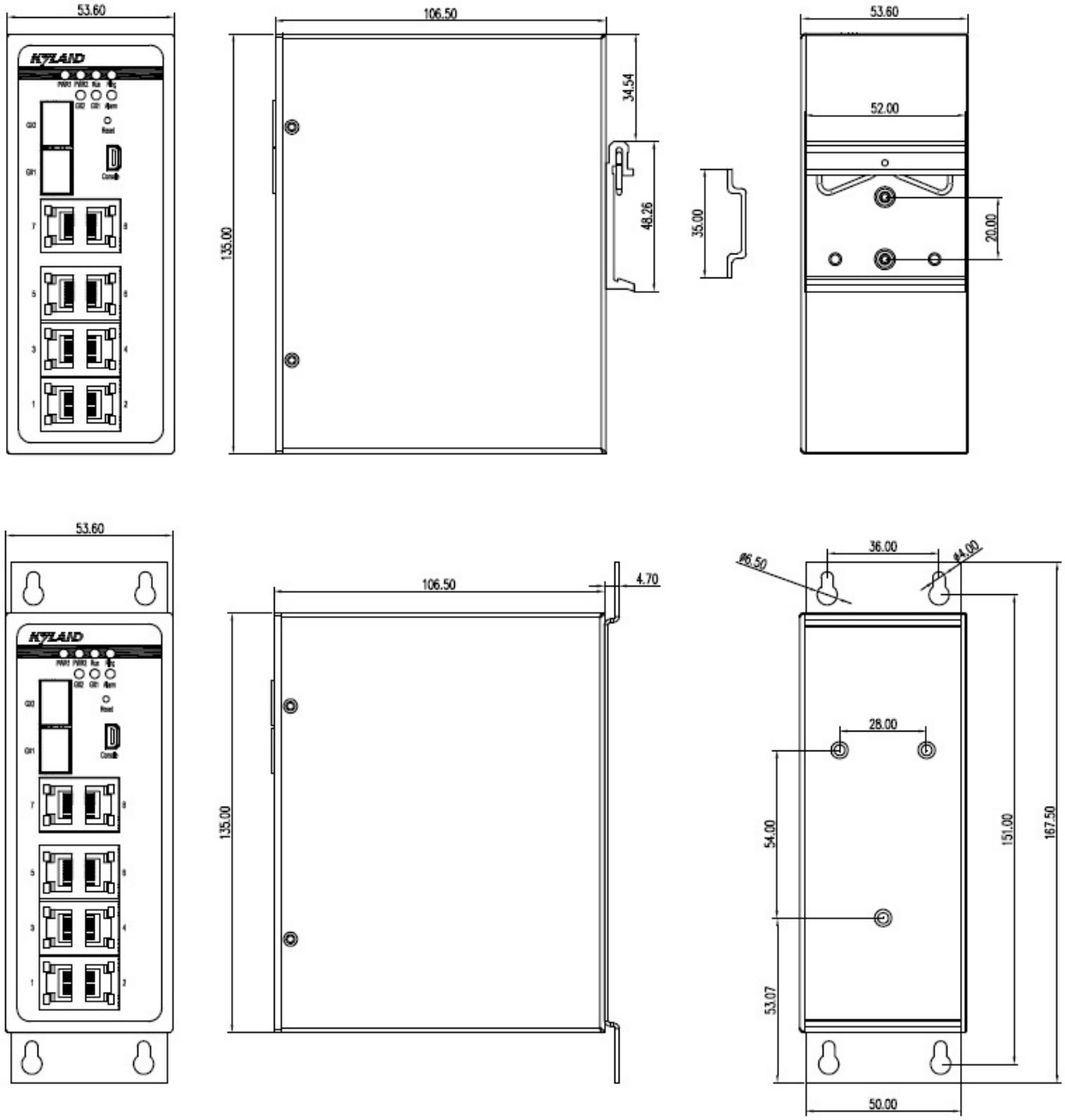
Machinery

IEC60068-2-6 (vibration)

IEC60068-2-27 (shock)

IEC60068-2-32 (free fall)

Mechanical Drawing



Ordering Information

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Product Model	SICOM3000A-LITE-Ports-Connector-PS1-PS2
Code definition	Code selection

Ports	6T=6×10/100Base-T(X) RJ45 ports 8T=8×10/100Base-T(X) RJ45 ports 1S4T=1×100Base-FX, single mode fiber ports; 4×10/100Base-T(X) RJ45 ports 1M4T=1×100Base-FX, multi mode fiber ports; 4×10/100Base-T(X) RJ45 ports 2S4T=2×100Base-FX, single mode fiber ports; 4×10/100Base-T(X) RJ45 ports 2M4T=2×100Base-FX, multi mode fiber ports; 4×10/100Base-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 2GX8T=2×100Base-X, 1000Base-X, 10/100/1000Base-T(X) SFP ports; 8×10/100Base-T(X) RJ45 ports
Connector	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
PS1-PS2	L2-L2=24-48VDC (18-72VDC), redundant power inputs L3-L3=12-24VDC (12-36VDC), redundant power inputs

Accessories

Accessory Model	Description
Gigabit SFP module	See the selection table of industrial gigabit SFP module.
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

Version: 2025-12-25