KYLAND

SICOM3000
8+2G Port Layer 2 Managed DIN-Rail Switches

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. It can be deployed in wind power, distribution network automation, transportation, oil & gas and many other industrial applications.

Key Features

- 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 (KEMA certified)
- KEMA, UL508, Class I Div 2, CE, FCC certificates

Product Specifications

>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 loop detection

Support CRC protection

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 Specifications
-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: 1Mbit

Packet Forwarding Rate: 4.2Mpps

Switching Delay:<5μs

-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:

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

24-48VDC(18-72VDC)

12-24VDC(9-36VDC)

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)

-Quality Assurance

MTBF: 423350 hrs

Warranty: 5 years

-Approvals

KEMA: Models with HV:100-240VAC,50/60Hz;110-220VDC

UL508, Class I Div 2: Models with L2:24-48VDC

CE(EMC), FCC: Models with L2:24-48VDC and L5:12-24VDC

-Industry Standard

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)
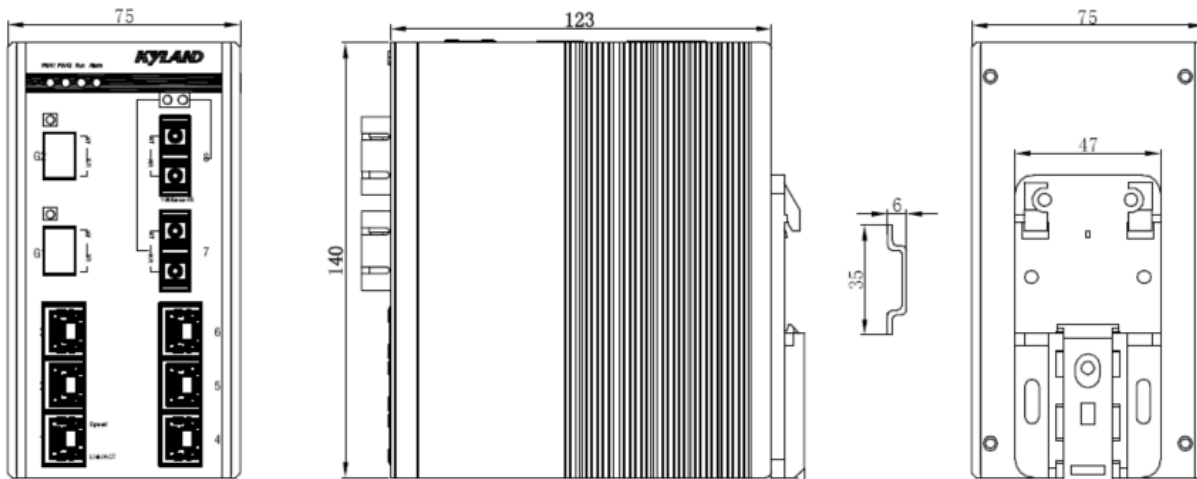
Rail Traffic: EN 50121-4

Machinery:
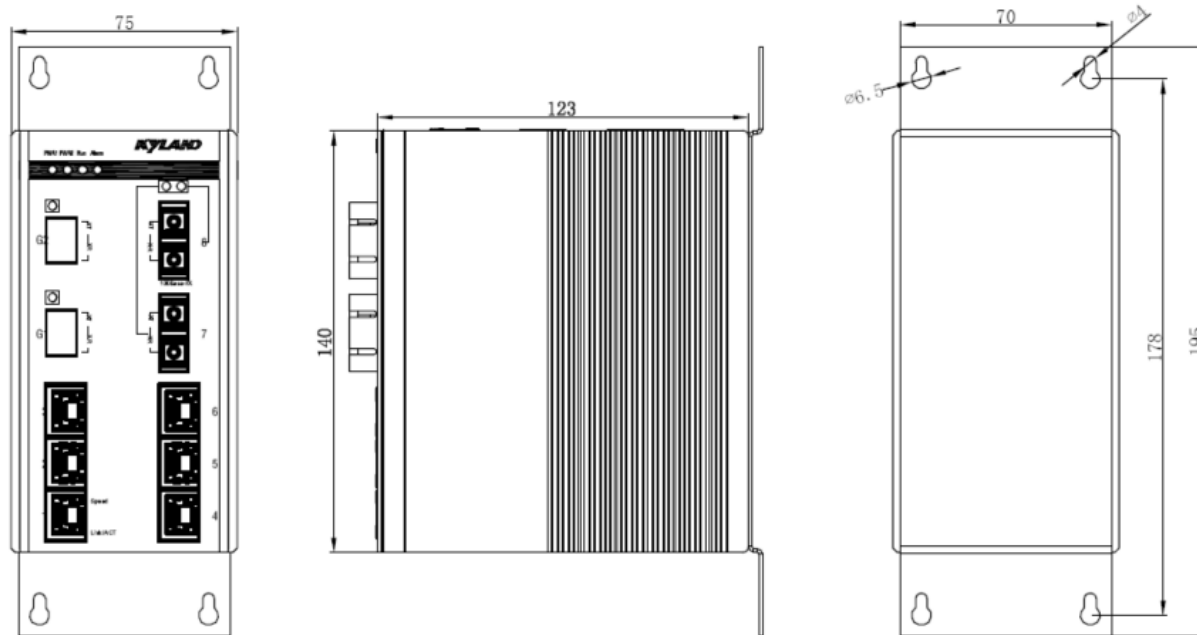
IEC60068-2-6(Vibration)

IEC60068-2-27(Shock)

IEC60068-2-32(Free Fall)

Mechanical Drawing

DIN Rail Mounting

Panel Mounting

≫ 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
NA	No 100Base-FX fiber port

PS1-PS2

L2-L2	24-48VDC (18-72VDC), redundant power inputs
L5-L5	12-24VDC (9-36VDC), redundant power inputs

PS1

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

Accessories

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

Version:2019-01-09 15:02:14