

SICOM3000

Layer 2 8+2G Port Managed Din-Rail IEC61850 Switch



- 2 Gigabit SFP slots, 6 10/100Base-TX ports and 2 Fast Ethernet fiber/RJ45 optional ports
- Supports DT-Ring protocols and MSTP
- Supports GMRP, DHCP, SNMP, QoS
- SNMPv3, HTTPS, SSH, DT-Psec enhance network security
- UL508, CE, FCC certificates



Overview

The SICOM3000 series, Gigabit managed DIN-Rail industrial Ethernet switch, was developed by Kyland for industrial information layers in transport, power and mining applications. It offers 2 Gigabit SFP slots, 2 100M copper/fiber ports and 6 10/100Base-T(X) ports. Its fanless ribbed casing design and ability to handle a wide range of temperatures ensure high reliability in extreme industrial environments. Based on Kyvision3.0, CLI, WEB interface, it offers concentrative management. The state-of-the-art OPC software enables the switch's management embedded in various industrial systems.

Features & Benefits

- Redundancy Technology: supports DT-Ring protocols (recovery time < 50ms) and MSTP
- Multicast Protocol: supports IGMP Snooping, GMRP and static multicast
- Network Partition: supports VLAN, PVLAN
- Service Quality: supports QoS
- Bandwidth Management: supports port trunking, port speed limit, broadcast storm control
- Network Management and Monitoring: supports CLI, Telnet, WEB management methods, Kyvision centralized management, SNMPv1/v2/v3, RMON, LLDP, STP, DHCP
- Network Security: supports DT-Psec, SSH, SSL, ACL
- Device Management: supports FTP upgrade
- Device Maintenance: supports port mirroring
- Alarm Output: supports IP/MAC conflicts, power, port and ring alarms
- Special Function: supports Link Check and Loop Status Check

Technical Specifications

Standard

IEEE802.3i, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE802.3x, IEEE802.1p, IEEE802.1Q, IEEE802.1s

Protocols

DT-Ring, DT-Ring+, DT-VLAN, MSTP;
IGMP Snooping, GMRP;
VLAN, PVLAN;
Telnet, HTTP, HTTPS, SNMPv1/v2/v3, RMON, LLDP, STP, DHCP server;
DT-Psec, SSH, SSL, ACL;
FTP;
ARP, QoS

Switch Properties

Priority Queues: 4
Number of VLANs: 256
VLAN ID: 1-4094
Number of Multicast Groups: 256
MAC Table: 8K
Packet Buffer: 2Mbit
Packet Forwarding Rate: 4.2Mpps
Switching Delay: < 5μs

Interface

Gigabit Ethernet Ports: max 2 1000Base SFP slots
Fast Ethernet Fiber Ports: max 2 100Base-FX SM/MM ports, FC/SC/ST connector
Fast Ethernet RJ45 Ports: max 8 10/100Base-TX RJ45 ports
Console Port: RS232 (RJ45 connector)
Alarm Contact: 3-pin 5.08mm-spacing plug-in terminal block, 250VAC/350VDC Max, 120mA Max

LED

LEDs on Front Panel:
Running LED: Run1, Run2
Power LED: PWR1, PWR2
Interface LED: Link/ACT, Speed (RJ45 port)

Transmission Distance

Twisted Pair: 100m (Standard CAT5, CAT5e network cable)
Multi Mode Fiber: 1310nm, 5km (100M)
850nm, 550m (1000M)
Single Mode Fiber: 1310nm, 40km/60km (100M)
1550nm, 60km/80km (100M)
1310nm, 10km/40km (1000M)
1550nm, 60km/80km (1000M)

Power Requirements

Power Input: 24VDC (18-36VDC), 48VDC (36-72VDC), 110VDC (66-154VDC), 220VAC/DC (132-300VAC/176-400VDC)

Power Terminal:

5-pin 5.08mm-spacing plug-in terminal block (24VDC, 48VDC)

3-pin 7.62mm-spacing plug-in terminal block (110VDC, 220VAC/DC)

Power Consumption: <10.6W

Overload Protection: Support

Reverse Connection Protection: Support

Redundancy Protection: Support

Physical Characteristics

Housing: Aluminum, fanless

Protection Class: IP40

Dimensions (W×H×D): 75×140×123mm (2.95×5.51×4.84 in.)

Weight: 1.0kg (2.205 pound)

Mounting: DIN-Rail or Panel mounting

Environmental Limits

Operating Temperature: -40 to 85°C (-40 to 185°F)

Storage Temperature: -40 to 85°C (-40 to 185°F)

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

MTBF

323,350 hrs

Warranty

5 years

Approvals

UL508, CE, FCC

Industrial 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): 3V (10kHz-150kHz); 10V (150kHz-80MHz)

IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)

Machinery:

IEC60068-2-6 (Vibration)

IEC60068-2-27 (Shock)

IEC60068-2-32 (Free Fall)

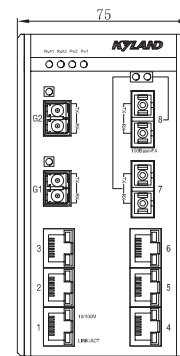
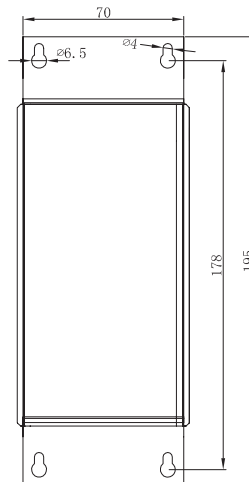
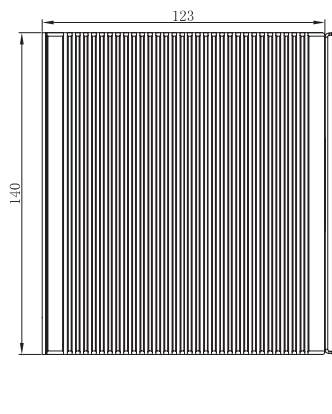
Industry: IEC61000-6-2

Railway: EN50155, EN50121-4

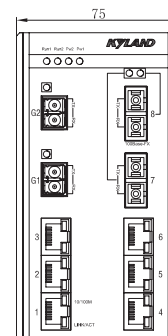
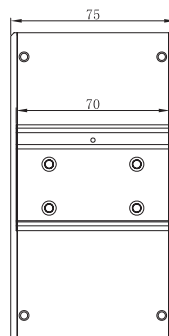
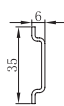
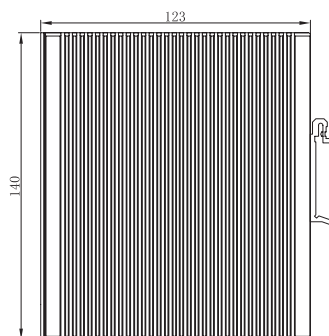
Traffic Control: NEMA TS-2

Mechanical Drawing

Panel Mounting



DIN-Rail Mounting



Ordering Information

Model	Gigabit Port	Fast Ethernet Port			Fiber Connector			Power Supply			
	1000Base SFP	100Base-FX Single Mode	100Base-FX Multi Mode	10/100Base-TX	SC	ST	FC	18-36VDC	36-72VDC	66-154VDC	132-300VAC/ 176-400VDC
SICOM3000-2GX-2S-6T	2	2	--	6							
SICOM3000-2GX-2M-6T	2	--	2	6							
SICOM3000-2GX-8T	2	--	--	8	--	--	--				
SICOM3000-2S-6T	--	2	--	6							
SICOM3000-2M-6T	--	--	2	6							
SICOM3000-8T	--	--	--	8	--	--	--				

Please Select

Accessories

Model	Description
Gigabit SFP module	Refer to Kyland industrial Gigabit SFP list
DT-BGAZ-05	Panel mounting kit
DT-FCZ-RJ45-01	RJ45 dustproof shield

Order Codes

SICOM3000 - - - - - -

G FX Connector Distance TX PS

G: Gigabit Ports

2GX=2 Gigabit SFP ports
None= No Gigabit port

FX: Fiber Ports

2S= 2 single mode fiber ports
2M= 2 multi mode fiber ports
(Please refer to the order information on available port combinations.)

Connector: Fiber Connector

FC= FC connector
SC= SC connector
ST= ST connector
SD= single fiber bi-direction, only for single mode, only SC connector (different price)

Distance: Fiber Distance

2= multi mode, 850nm, 2km
5 (or None)= multi mode, 1310nm, 5km (multi mode default)
40 (or None)= single mode, 1310nm, 40km (single mode default)
60= single mode, 1310nm, 60km (different price)
60L= single mode, 1550nm, 60km (different price)

80L= single mode, 1550nm, 80km (different price)
5T3R= single fiber bi-direction, 1550T/1310R, 20km (different price)
5R3T= single fiber bi-direction, 1550R/1310T, 20km (different price)
40/5T3R= single fiber bi-direction, 1550T/1310R, 40km (different price)
40/5R3T= single fiber bi-direction, 1550R/1310T, 40km (different price)
80/5T3R= single fiber bi-direction, 1550T/1310R, 80km (different price)
80/5R3T= single fiber bi-direction, 1550R/1310T, 80km (different price)

TX: Copper Ports

6T= 6 10/100Base-T(X) ports, RJ45 connector
8T= 8 10/100BaseT(X) ports, RJ45 connector
(Please refer to the order information on available port combinations.)

PS: Power Supply

24= 24VDC (18-36VDC), dual power inputs
48= 48VDC (36-72VDC), dual power inputs
110= 110VDC (66-154VDC), single power input
220A= 220VAC/220VDC (132-300VAC/176-400VDC), single power input

Example order codes

SICOM3000-2GX-2M-SC-6T-24
2 Gigabit SFP ports, 2 multi mode fiber ports, SC connectors, 1310nm 5km, 6 10/100Base-TX RJ45 ports, 24VDC(18-36VDC) power supply, dual power inputs

Note: Please contact sales for different prices.