



SICOM3000

8+2G Port Gigabit Managed Industrial Ethernet Switch

UL, CE, FCC, RoHS
Chinese State Grid
Certification

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) RJ45 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

- Supports 2 Gigabit SFP slots, 2 100M copper/fiber ports and 6 10/100Base-T(X) RJ45 ports
- Supports DT-Ring protocols (Recovery time < 50ms), RSTP/STP (IEEE802.1w/d)
- Flexible network topologies: ring, chain, star and tangent ring
- Advanced ring topology protocol avoiding broadcast storm
- Supports IGMP Snooping, port trunking, port mirroring, QoS, VLAN, Link aggregation (802.3ad)
- Supports port speed limitation and special broadcast storm control
- Safe MAC and port binding function, static FDB supported
- Bandwidth configuration controls port bandwidth properly
- Improves network monitoring ability through RMON (group 1, 2, 3 and 9)
- Supports multiple management methods including CLI, TELNET, WEB, SNMP V1/V2/V3 and OPC
- EMC industrial level 4, specially designed for harsh electromagnetic interference environment
- Abundant power supply options, dual redundant DC power inputs
- Relay alarm output for the failure of power
- Operating temperature: -40 to 85°C (-40 to 185°F)
- Ribbed aluminum case for heat dissipation, fanless design
- DIN-Rail and Wall mounting installation
- IP40 protection class
- Unified management software for SICOM series: Kyvision3.0

Technical Specifications

Standard

IEEE802.3
IEEE802.3u
IEEE802.3x
IEEE802.3z
IEEE802.3ab
IEEE802.1d

IEEE802.1w
IEEE802.1p
IEEE802.1q
Store and forward switching mode

Network

Ring, chain, star and tangent ring network topology

Cable

Twisted Pair: 0-100m (Standard CAT5, CAT5e network cable)
Multi Mode Fiber: 1310nm, 0-5km (100Mbps); 1310nm 0-2km (1000Mbps)
Single Mode Fiber: 1310nm, 0-40km; 1550nm, 0-80km

Interface

Gigabit Ethernet Ports: 2 Gigabit SFP slots for 1000Base-SX/LX/LH/ZX, LC or 10/100/1000Base-T(X), RJ45 interface modules
Fast Ethernet Ports: 6 x 10/100Base-T(X) ports, RJ45; 2 x 100M copper/fiber ports
CONSOLE Interface: RS232, RJ45
Alarm Contact: 2-Pin 3.81mm-spacing terminal block, 250VAC/350VDC Max; 120mA Max
LED Indicator: RUN1, RUN2, PWR1, PWR2; LINK/ACT (G1, G2, 7, 8); LINK/ACT, 10M/100M (1-8)

Performance

Backplane switching capacity: 5.6G
MAC Address Table Size: 8K

Power Requirements

Power input: 24VDC (18-36VDC), 48VDC (36-72VDC), dual redundant power inputs; 110VAC/110VDC (85-165VAC/66-154VDC), 220VAC/220VDC (132-300VAC/176-400VDC), single power input
Power terminal: 3-Pin 3.81mm-spacing plug-in terminal block (24VDC, 48VDC); 3-Pin 7.62mm-spacing plug-in terminal block (110VDC, 220VAC/DC)
Power consumption: < 10W

Physical Characteristics

Casing: Ribbed aluminum case (fanless)
Protection class: IP40
Installation: DIN-Rail or wall mounting
Dimensions (WxHxD): 75x140x123 mm (2.95x5.51x4.84 in)
Weight: 1kg (2.205 pound)

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: 0 to 95% (non-condensing)

Approvals

EMC interference immunity:
IEC61000-4-2 (ESD): ±8KV contact discharge, ±15KV air discharge
IEC61000-4-3 (RS): 10V/M (80-1000MHz)
IEC61000-4-4 (EFT): ±4KV power line, ±2KV data line
IEC61000-4-5 (Surge): power line ±4KV CM/ ±2KV DM, data line ±2KV
IEC61000-4-6 (CS): 3V (10KHZ-150KHZ), 10V (150KHZ-80MHz)
IEC61000-4-8 (Power frequency magnetic field): 100A/m cont. 1000A/m, 1s to 3s
nt. 300V, 1s
IEC61000-4-12/18 (Damped oscillatory wave): 2.5KV CM, 1KV DM
IEC61000-4-10 (Damped oscillatory): 30A/m
IEC61000-4-16 (Common mode conduct): 30V cont. 300V, 1s

FCC CFR47 Part 15/EN55022: Class A & B
IEC61000-6-2 (Industrial Standards), IEC61850-3 (Substations),
IEEE1613 (Electric Power Substations), EN50121-4 (Railway
Applications)

UL, CE, FCC, ROHS, Chinese State Grid Certification

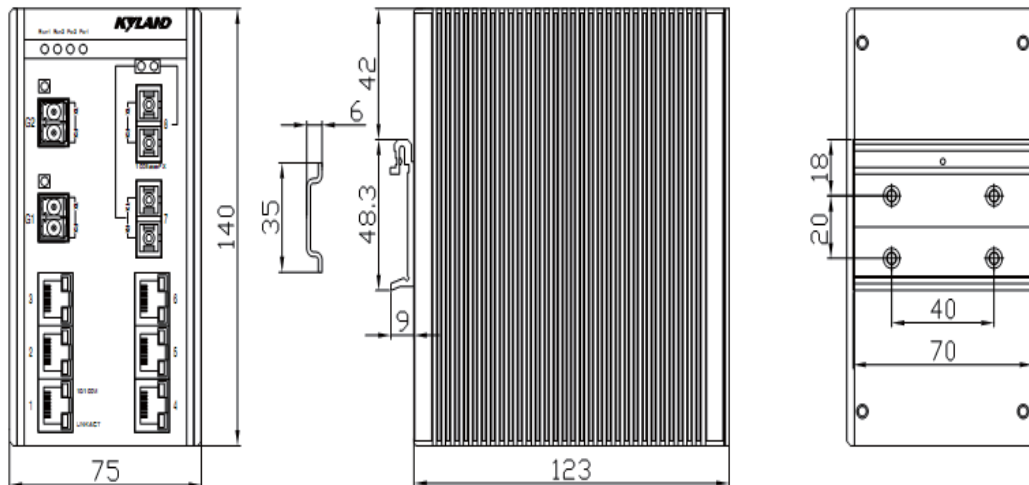
MTBF

35 years

Warranty

5 years

Mechanical Drawing



Ordering Information

Model	Description
SICOM3000-2GX-2S-6T	Managed Gigabit Ethernet switch with 2 Gigabit SFP slots, 2 100Base-FX ports, single mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector, 24VDC (18-36VDC), 48VDC (36-72VDC), dual redundant power inputs, 110VAC/110VDC (85-165VAC/66-154VDC), 220VAC/220VDC (132-300VAC/176-400VDC), single power input, -40 to 85°C operating temperature
SICOM3000-2GX-2M-6T	Managed Gigabit Ethernet switch with 2 Gigabit SFP slots, 2 100Base-FX ports, multi mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector, 24VDC (18-36VDC), 48VDC (36-72VDC), dual redundant power inputs, 110VAC/110VDC (85-165VAC/66-154VDC), 220VAC/220VDC (132-300VAC/176-400VDC), single power input, -40 to 85°C operating temperature
SICOM3000-2GX-8T	Managed Gigabit Ethernet switch with 2 Gigabit SFP slots, 8 10/100Base-T(X) ports, RJ45 connector, 24VDC (18-36VDC), 48VDC (36-72VDC), dual redundant power inputs, 110VAC/110VDC (85-165VAC/66-154VDC), 220VAC/220VDC (132-300VAC/176-400VDC), single power input, -40 to 85°C operating temperature
SICOM3000-2S-6T	Managed Gigabit Ethernet switch with 2 100Base-FX ports, single mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector, 24VDC (18-36VDC), 48VDC (36-72VDC), dual redundant power inputs, 110VAC/110VDC (85-165VAC/66-154VDC), 220VAC/220VDC (132-300VAC/176-400VDC), single power input, -40 to 85°C operating temperature
SICOM3000-2M-6T	Managed Gigabit Ethernet switch with 2 100Base-FX ports, multi mode, FC/SC/ST connector, 6 10/100Base-T(X) ports, RJ45 connector, 24VDC (18-36VDC), 48VDC (36-72VDC), dual redundant power inputs, 110VAC/110VDC (85-165VAC/66-154VDC), 220VAC/220VDC (132-300VAC/176-400VDC), single power input, -40 to 85°C operating temperature
SICOM3000-8T	Managed Gigabit Ethernet switch with 8 10/100Base-T(X) ports, RJ45 connector, 24VDC (18-36VDC), 48VDC (36-72VDC), dual redundant power inputs, 110VAC/110VDC (85-165VAC/66-154VDC), 220VAC/220VDC (132-300VAC/176-400VDC), single power input, -40 to 85°C operating temperature

Power supply: 24VDC, 48VDC, dual redundant power inputs
110VAC/110VDC, 220VAC/200VDC, single power input

SFP Modules

SM-GSFP-TX/RJ45: SFP module with 1x10/100/1000M port, RJ45, 100m
SM-GSFP-SX/LC-550: SFP module with 1 x 1000M multimode port, LC, 850nm, 550m
SM-GSFP-LX/LC-550: SFP module with 1x1000M multi Mode Port, LC, 1310nm, 550m
SM-GSFP-LX/LC-10: SFP module with 1x1000M single mode port, LC, 1310nm, 10km
SM-GSFP-LX/LC-15: SFP module with 1 x 1000M single mode port, LC, 1310nm, 15km
SM-GSFP-LH/LC-40: SFP module with 1x1000M single mode port, LC, 1310nm, 40km
SM-GSFP-ZX/LC-40: SFP module with 1 x 1000M single mode port, LC, 1550nm, 40km
SM-GSFP-ZX/LC-60: SFP module with 1x1000M single mode port, LC, 1550nm, 60km
SM-GSFP-ZX/LC-80: SFP module with 1x1000M single mode port, LC, 1550nm, 80km

Order Codes

SICOM3000 - _____ - _____ - _____ - _____ - _____ - _____
G **FX** **Connector** **Distance** **TX** **PS**

G: Gigabit Ports

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

FX: Fiber Ports

2M= 2 multi mode fiber ports
2S= 2 single 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
110A= 110VAC/110VDC (85-165VAC/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.

Please visit our website: www.kyland.cn for the latest updates.