

SICOM4000



24+4G Port Layer 2 Managed Din-rail Modular Switches

- Supports max 4 Gigabit SFP ports and 24 fast Ethernet fiber/copper ports
- Modular design for easy expansion
- Embedded serial data server, and supports max 24 RS232/RS485 ports
- Supports DT-Ring , RSTP for network redundancy.
- IP40 protection class
- CE, FCC certification



Overview

SICOM4000 is a DIN-Rail modular managed industrial Ethernet switch supporting up to 4 Gigabit SFP ports, 24 100M copper/fiber ports or 24 RS232/RS485 serial ports. It also comes with EMC industrial level 4 design and complies with IP40 protection class. SICOM4000 supports many Layer 2 software features such as port, VLAN, multicast, QoS, fast redundant ring. It supports Console, Telnet, Web management and network management software based on SNMP.

Software Functions

Switching Function

Supports VLAN
Supports port aggregation.
Supports flow control.
Support port rate limit
Supports broadcast storm suppression.

Redundancy Protocol

Supports DT-Ring, DT-Ring+, and DT-VLAN and the recovery time<50 ms.
Supports STP/RSTP

Multicast Protocol

Supports IGMP snooping.
Supports static multicast.

Service Quality Management

Supports ACL
Supports SP+WRR and WRR queuing.

Management & Maintenance

Supports Console, Telnet, and Web management methods.
Supports SNMPv1/v2c, Kyvision centralized management.
Supports software update and configuration import/export over FTP.
Supports the power failure alarm, port alarm, and ring alarm
Supports port mirroring.
Supports RMON

Product Specifications

Technical Specifications

Standard

- ▼ IEEE 802.3i(10Base-T)
- ▼ IEEE 802.3u(100Base-TX and 100Base-FX)
- ▼ IEEE 802.3z(1000Base-SX/LX)
- ▼ IEEE 802.3x(flow control)
- ▼ IEEE 802.1p(Class of Service)
- ▼ IEEE 802.1Q(VLAN)
- ▼ IEEE 802.1w(RSTP)

Switch Properties

Priority queue	4
Number of VLANs	256
VLAN ID	1-4093
Number of multicast groups	256
MAC table	8K
Packet buffer	3Mbit
Packet forwarding rate	9.5Mpps
Switching delay	<10µs

Interface

Gigabit ports	1000Base-X, SFP port
Fast Ethernet ports	

- ▼ 100Base-FX, single/multi mode, SC/ST/FC connector
 - ▼ 10/100Base-T(X), RJ45 port
- | | |
|--------------|-------------|
| Serial ports | RS232/RS485 |
| Console port | RS232,RJ45 |
- Alarm contact
- ▼ 2-pin 3.81mm-spacing plug-in terminal block,250 VAC/220 VDC Max, 120mA Max
- | | |
|-----------------|----|
| Number of slots | 10 |
|-----------------|----|

LED

- LED on front panel
- ▼ Running LED: Run
 - ▼ Alarm LED: Alarm
 - ▼ Power LED: PWR1, PWR2
 - ▼ Port LED: Link/ACT, Speed
- LED on rear panel
- ▼ Port LED: Link/ACT
 - ▼ Port speed LED: Speed

Power Requirements

- Power input
- ▼ 24VDC(18-36VDC)
 - ▼ 48VDC(36-72VDC),
- Power terminal 3-pin 3.81 mm-spacing plug-in terminal block
- Power consumption
- ▼ <24W (full Ethernet ports)
 - ▼ <36W (full serial ports)
- | | |
|-------------------------------|---------|
| Overload protection | Support |
| Reverse connection protection | Support |
| Redundancy protection | Support |

Physical Characteristics

Housing	Metal
Cooling	Natural cooling, fanless
Protection Class	IP40

Dimensions(WxHxD)	416mm×170mm×158mm (16.38×6.69×6.22 in.)
Weight	<8Kg(17.637 pound)
Mounting	Din-rail or panel mounting

Environmental Limits

Operating temperature	-40°C to +85°C (-40°F to 185°F)
Storage temperature	-40°C to +85°C (-40°F to 185°F)
Ambient Relative Humidity	5% - 95% (non-condensing)

Quality Assurance

MTBF	282,000 hrs
Warranty	5 years

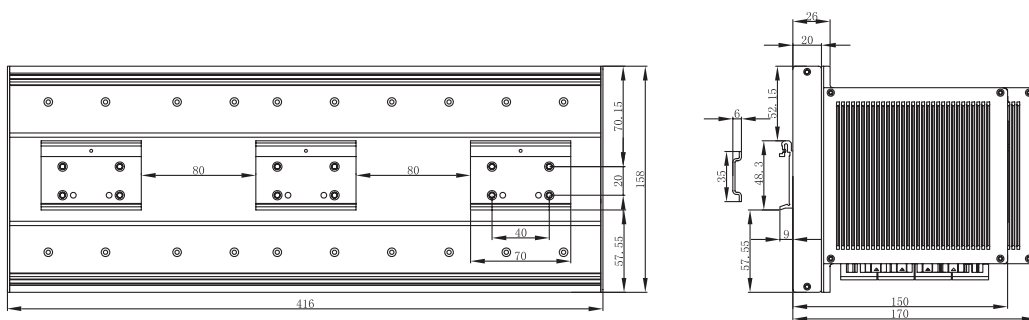
Approvals

CE, FCC

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) 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)

Mechanical Drawing



» Ordering Information

Chasis

SICOM4000-MB SICOM4000 Chassis

Power Supply Module

SM4.1-Power-L1 48VDC(36-72VDC), dual redundant power inputs

SM4.1-Power-L3 24VDC(18-36VDC), dual redundant power inputs

Interface Module

SM4.1-Ports-Connector-PS

Ports

4GX	4x1000Base-X,10/100/1000Base-T(X) SFP port
4S	4x100Base-FX, single-mode fiber port
4M	4x100Base-FX, multi-mode fiber port
2S2T	2x100Base-FX, single-mode fiber port;2x10/100Base-T(X) RJ45 port
2M2T	2x100Base-FX, multi-mode fiber port;2x10/100Base-T(X) RJ45 port
4T	4x10/100Base-T(X) RJ45 port
4D	4xRS232/RS485 serial port

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

» Accessories

Accessory Model

Description

Gigabit SFP module	Please refer to the Gigabit SFP module ordering table
DT-FCZ-RJ45-01	Dustproof cover for RJ45 port