

SICOM2024L

28G port layer 2 managed rack mountable switches



» Overview

SICOM2024L is a layer 2 managed industrial Ethernet switch designed to operate reliably in electrically harsh and climatically demanding utility substation and industrial environments. SICOM2024L is a 19-inch 1U rack mountable device and its internal modular design offers the maximum flexibility for easy expansion. SICOM2024L 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. At present, the product is widely used at the intelligent substation and many other industrial communication systems.

» Key Features

- Supports max 28 gigabit ports
- Supports DT-Ring ,DRP, RSTP for network redundancy
- Supports IEC61850 MMS management(special firmware)
- Supports alarm and syslog
- Supports SFP Digital Diagnostics Monitoring
- CE, FCC

» Product Specifications

>Software Functions

-Switching Function

Supports VLAN and PVLAN

Supports GVRP

Supports port aggregation

Supports flow control

Supports port rate limit

Supports broadcast storm suppression

Supports static ARP

Supports ARP aging time

Supports static MAC address

Supports MAC aging time

Supports MAC learning setting

-Redundancy Protocol

Supports DHP and DRP

Supports DT-Ring, DT-Ring+, and DT-VLAN

Supports STP/RSTP/MSTP

-Multicast Protocol

Supports IGMP snooping, IGMP query

Supports GMRP

Supports static multicast

-Security

Supports IEEE 802.1x

Supports HTTPs/SSL

Supports SSH

Supports RADIUS

Supports TACACS+

Supports user grading

Supports user login timeout

Supports enhanced password

Supports port isolate

Supports MAC learning limit

Supports remote access security

-Service Quality Management

Supports ACL

Supports 802.1p(CoS),DSCP

Supports SP and WRR queuing

-Management & Maintenance

Supports Console, Telnet, and Web management

Supports SNMPv1/v2c/v3 and can managed by Kyvision

Supports IEC61850 MMS server

Supports software update via FTP

Supports configuration upload/download via FTP/HTTP

Supports the IP/MAC address conflict alarm, power alarm, temperature alarm,port alarm, CPU/

Memory usage alarm, config change alarm, and ring alarm

Supports RMON

Supports port mirroring

Supports Syslog, save to flash or send to log server

Supports LLDP

Supports Link-check

-IP Address Management

Supports DHCP server/client/snooping/option 82

-Clock Management

Supports SNTP server/client

Supports RTC

Supports time zone

>Product Specifications

-Standard

IEEE 802.3i(10Base-T)

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

IEEE 802.3ab(1000Base-T)

IEEE 802.3z(1000Base-SX/LX)

IEEE 802.3ad (port aggregation)

IEEE 802.3x(flow control)

IEEE 802.1p(priority)

IEEE 802.1Q(VLAN)

IEEE 802.1w(RSTP)

-Switch Properties

Priority queue: 8

Number of VLANs: 4094

VLAN ID: 1–4093

Number of multicast groups: 511

MAC table: 8K

Packet buffer: 4.1Mbit

Packet forwarding rate: 41.7Mpps

Switching delay:<10 μ s

-Interface

Gigabit ports:1000Base-X, SFP port;10/100/1000Base-T(X), RJ45 port

Console port: RS232,RJ45

Alarm contact: 3-pin 5.08mm-spacing plug-in terminal block

-LED

LED on front panel

Running LED: Run

Alarm LED: Alarm

Power LED: PWR1, PWR2

Port LED: Link/ACT

Port speed LED: Speed

LED on rear panel

Port LED: Link/ACT

Port speed LED: Speed

-Power Requirements

Power input:

L2: 24-48VDC(18-72VDC),

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

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

Power consumption:<35w

Overload protection: Support

Reverse connection protection: Support

Redundancy protection: Support

-Physical Characteristics

Housing: Metal

Cooling: Natural cooling, fanless

Protection Class: IP40

Dimensions(WxHxD): 482.6mm×44mm×245mm

Weight: 4Kg

Mounting: 19 inch 1U rack 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: 355979 hrs

Warranty: 5 years

-Approvals

CE/FCC

EN 62368-1

-Industry Standard

EMI:

FCC CFR47 Part 15,EN55022/CISPR22,Class A

EMS:

IEC61000-4-2(ESD) $\pm 8\text{kV}$ (contact), $\pm 15\text{kV}$ (air)IEC61000-4-3(RS) 10V/m (80MHz-2GHz)IEC61000-4-4(EFT) Power Port: $\pm 4\text{kV}$;Data Port: $\pm 2\text{kV}$ IEC61000-4-5(Surge) Power Port: $\pm 2\text{kV/DM}$, $\pm 4\text{kV/CM}$;Data Port: $\pm 2\text{kV}$ IEC61000-4-6(CS) 3V (10kHz-150kHz); 10V (150kHz-80MHz)IEC61000-4-8(power frequency magnetic field) 100A/m (cont.), 1000A/m (1s-3s)IEC61000-4-9(pulsed magnetic field) 1000A/m IEC61000-4-10(damped oscillation) 100A/m IEC61000-4-12(oscillatory wave) 2.5kV/CM , 1kV/DM 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

Recommended model

Product Model :SICOM2024L-Ports-PS1-PS2	
Ports	Description
4GX24GE	4x1000Base-X,10/100/1000Base-T(X) SFP port; 24x10/100/1000Base-FX,RJ45 port
4G12GX12GE	4x1000 fiber/copper port; 12x1000Base-X,10/100/1000Base-T(X) SFP port;12x10/100/1000Base-T(X) RJ45 port
PS1	Power input 1
HV	100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC)
L2	24-48VDC(18-72VDC)
PS2	Power input 2
HV	100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC)
L2	24-48VDC(18-72VDC)

Order Information	
SICOM2024L-4GX2 4GE-HV-HV	4x1000Base-X,10/100/1000Base-T(X) SFP port; 24x100/1000Base-FX,RJ45 port; 100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC),Dual power supply
SICOM2024L-4GX2 4GE-HV	4x1000Base-X,10/100/1000Base-T(X) SFP port; 24x100/1000Base-FX,RJ45 port; 100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC),Single power supply
SICOM2024L-4GX2 4GE-L2-L2	4x1000Base-X,10/100/1000Base-T(X) SFP port; 24x100/1000Base-FX,RJ45 port; 24-48VDC(18-72VDC,Dual power supply
SICOM2024L-4GX2 4GE-L2	4x1000Base-X,10/100/1000Base-T(X) SFP port; 24x100/1000Base-FX,RJ45 port; 24-48VDC(18-72VDC) , Single power supply
SICOM2024L-4G12GX12GE-HV-HV	4x1000 fiber/copper port; 12x1000Base-X,10/100/1000Base-T(X) SFP port;12x10/100/1000Base-T(X) RJ45 port;100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC) , Dual power supply
SICOM2024L-4G12GX12GE-HV	4x1000 fiber/copper port; 12x1000Base-X,10/100/1000Base-T(X) SFP port;12x10/100/1000Base-T(X) RJ45 port;100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC) , Single power supply
SICOM2024L-4G12GX12GE-L2-L2	4x1000 fiber/copper port; 12x1000Base-X,10/100/1000Base-T(X) SFP port;12x10/100/1000Base-T(X) RJ45 port;24-48VDC(18-72VDC),Dual power supply
SICOM2024L-4G12GX12GE-L2	4x1000 fiber/copper port; 12x1000Base-X,10/100/1000Base-T(X) SFP port;12x10/100/1000Base-T(X) RJ45 port;24-48VDC(18-72VDC) Single power supply

Accessories	Description
Gigabit SFP module	See the selection table of industrial gigabit SFP module
100M SFP module	See the selection table of industrial 100M SFP module
DT-FCZ-RJ45-01	Single-port RJ45 dust plug

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