

SICOM3024

24+4G port layer 2 managed rack mountable switches



» Overview

SICOM3024 is a layer 2 managed industrial Ethernet switch designed to operate reliably in electrically harsh and climatically demanding utility substation and industrial environments. SICOM3024 supports up to 4 gigabit SFP ports, 16 fast Ethernet RJ45 ports and 8 fast Ethernet fiber/copper ports. SICOM3024 is a 19-inch 1U rack mountable device and allows front and rear panel mounting. It 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 in the power industry, railway industry, intelligent transportation industry and automatic control field.

» Key Features

supports max 4 gigabit SFP ports, 16 fast Ethernet RJ45 ports and 8 fast Ethernet fiber/copper ports
Supports DT-Ring , RSTP for network redundancy
Supports the IP/MAC address conflict alarm, power failure alarm, power alarm, port alarm, and ring alarm
CE, FCC certification

» Product Specifications

>Software functions
-Switching Function

Supports VLAN and PVLAN.

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 GMRP.

-Security

Supports IEEE 802.1x. (special firmware)

Supports HTTPS/SSL. (special firmware)

Supports SSH. (special firmware)

Supports RADIUS. (special firmware)

Supports TACACS+.(special firmware)

Supports user grading. (special firmware)

Supports MAC address limit. (special firmware)

Supports port isolate. (special firmware)

-Service Quality Management

Supports ACL

Supports 802.1p(CoS),DSCP

Supports SP and WRR queuing.

-Management & Maintenance

Supports Console, Telnet, and Web management methods.

Supports SNMPv1/v2c/v3 and can managed by Kyvision. (special firmware supports v3)

Supports software update and configuration import/ export over FTP.

Supports the IP/MAC address conflict alarm, power failure alarm, power alarm, port alarm, and ring alarm

Supports RMON.

Supports port mirroring.

Supports Syslog. (special firmware)

Supports LLDP.

Supports Link-check.

Supports loop detection. (special firmware)

Supports CRC protection. (special firmware)

-IP Address Management

Supports DHCP server/snooping/option 82. (Web interface doesn't support, and special firmware supports snooping and option82)

-Clock Management

Supports SNTP server/client.

>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 802.3x(flow control)

IEEE 802.1p(priority)

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: 2Mbit

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

Console port: RS232,RJ45

Alarm contact: 3-pin 3.81mm-spacing plug-in terminal block, 250 VAC/220 VDC Max, 2 A Max, 60 W Max

-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:

24VDC(18-36VDC),

48VDC(36-72VDC),

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

Power terminal:

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

Power consumption:<21.6w

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: 3Kg

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: 318296 hrs

Warranty: 5 years

-Approvals

CE: Models with power supply of HV:100-240VAC,50/60Hz;110-220VDC

FCC: Models with power supply of HV:100-240VAC,50/60Hz;110-220VDC

-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: $\pm 2\text{kV}/\text{DM}$, $\pm 4\text{kV}/\text{CM}$;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)

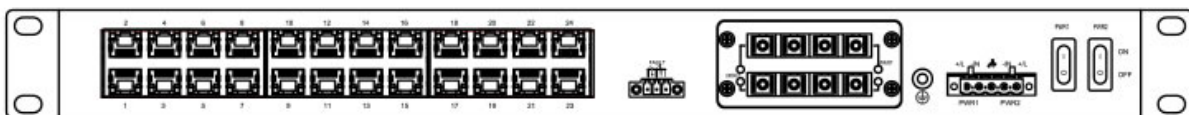
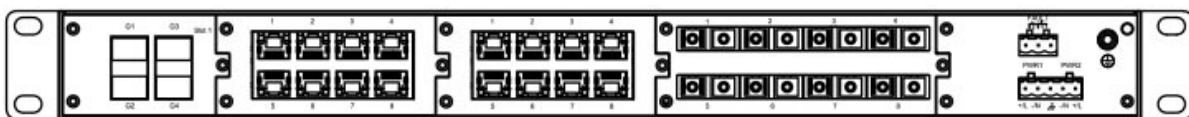
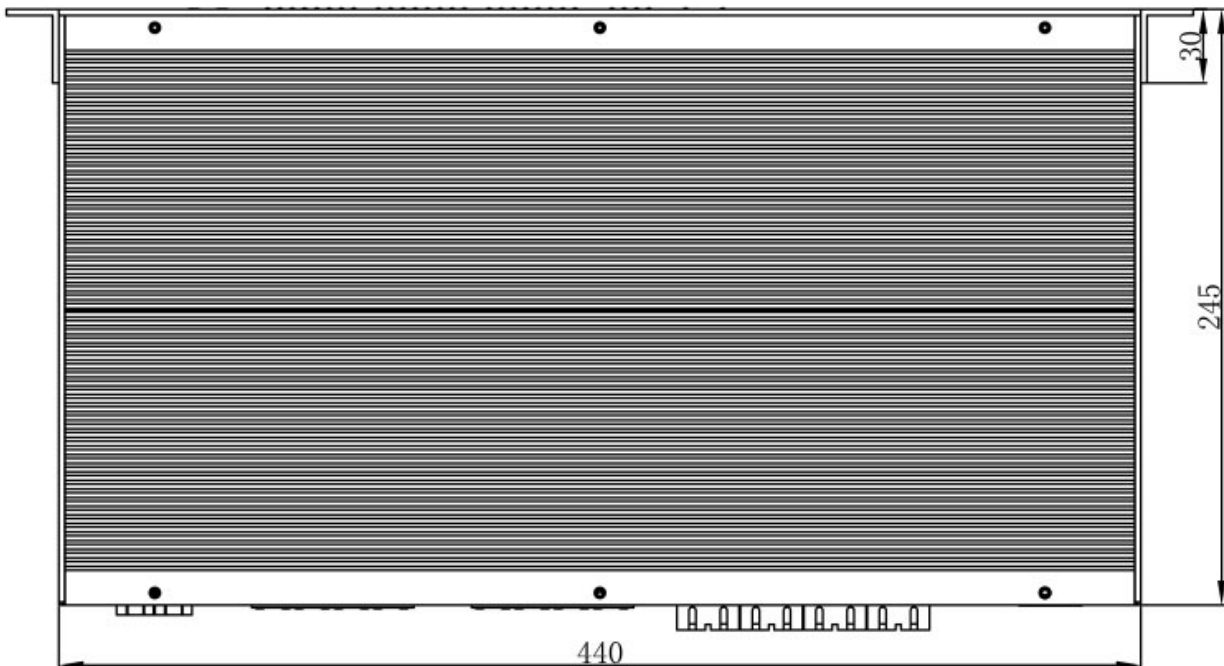
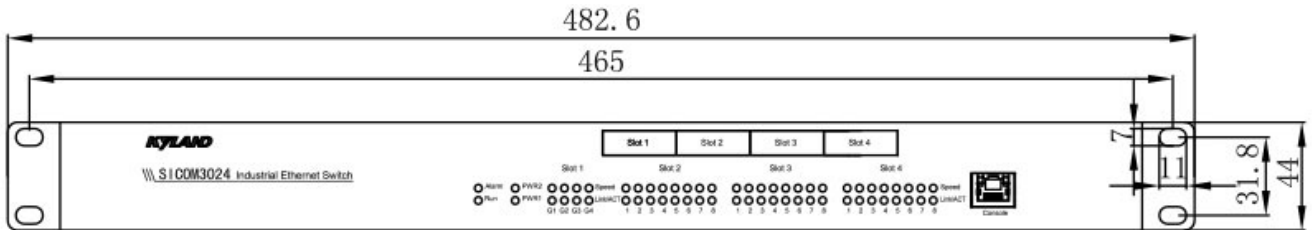
Machinery:

IEC60068-2-6 (vibration),

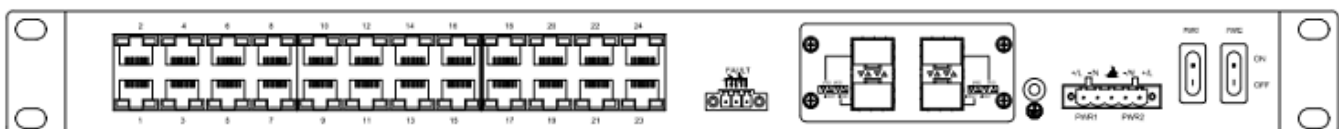
IEC60068-2-27 (shock),

IEC60068-2-32 (free fall)

» Mechanical Drawing



4GX24T :




Ordering Information

SICOM3024-Ports-Connector-PS1-PS2	
Ports	
4GX8S16T	4x1000Base-X SFP port;8x100Base-FX single-mode fiber port;16x10/100Base-T(X) RJ45 port
4GX8M16T	4x1000Base-X SFP port;8x100Base-FX multi-mode fiber port;16x10/100Base-T(X) RJ45 port
4GX6S18T	4x1000Base-X SFP port;6x100Base-FX single-mode fiber port;18x10/100Base-T(X) RJ45 port
4GX6M18T	4x1000Base-X SFP port;6x100Base-FX multi-mode fiber port;18x10/100Base-T(X) RJ45 port
4GX4S20T	4x1000Base-X SFP port;4x100Base-FX single-mode fiber port;20x10/100Base-T(X) RJ45 port
4GX4M20T	4x1000Base-X SFP port;4x100Base-FX multi-mode fiber port;20x10/100Base-T(X) RJ45 port
4GX2S22T	4x1000Base-X SFP port;2x100Base-FX single-mode fiber port;22x10/100Base-T(X) RJ45 port
4GX2M22T	4x1000Base-X SFP port;2x100Base-FX multi-mode fiber port;22x10/100Base-T(X) RJ45 port
4GX24T	4x1000Base-X SFP port;24x10/100Base-T(X) RJ45 port
4GX16T	4x1000Base-X SFP port;16x10/100Base-T(X) RJ45 port
8S16T	8x100Base-FX single-mode fiber port;16x10/100Base-T(X) RJ45 port
8M16T	8x100Base-FX multi-mode fiber port;16x10/100Base-T(X) RJ45 port
6S18T	6x100Base-FX single-mode fiber port;18x10/100Base-T(X) RJ45 port
6M18T	6x100Base-FX multi-mode fiber port;18x10/100Base-T(X) RJ45 port
4S20T	4x100Base-FX single-mode fiber port;20x10/100Base-T(X) RJ45 port
4M20T	4x100Base-FX multi-mode fiber port;20x10/100Base-T(X) RJ45 port
2S22T	2x100Base-FX single-mode fiber port;22x10/100Base-T(X) RJ45 port
2M22T	2x100Base-FX multi-mode fiber port;22x10/100Base-T(X) RJ45 port
24T	24x10/100Base-T(X) RJ45 port
4S24T	4x100Base-FX single-mode fiber port;24x10/100Base-T(X) RJ45 port
4M24T	4x100Base-FX multi-mode fiber port;24x10/100Base-T(X) RJ45 port
2S24T	2x100Base-FX single-mode fiber port;24x10/100Base-T(X) RJ45 port
2M24T	2x100Base-FX multi-mode fiber port;24x10/100Base-T(X) RJ45 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
None	No 100M fiber port
PS1	Power input 1
HV	100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC)
L1	48VDC(36-72VDC)
L3	24VDC(18-36VDC)
PS2	Power input 2
HV	100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC)
L1	48VDC(36-72VDC)
L3	24VDC(18-36VDC)

None	no redundant power supply
PO (Demo)	
SICOM3024-4GX8M16T-ST05-L3-L3	4x1000Base-X SFP port;8x100Base-FX multi-mode fiber port, ST connector, 1310nm, 5km;16x10/100Base-T(X) RJ45 port, 24VDC(18-36VDC), Dual power supply
SICOM3024-4GX16T-HV	4x1000Base-X SFP port;16x10/100Base-T(X) RJ45 port, 100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC), single power supply

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

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