SICOM3024

24+4G Port Layer 2 Managed Rack Mountable Switches

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
Complies with IEC 61850-3 and IEEE1613
CE, FCC certification

CE FC

» 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, meets the IEC 61850 and IEEE1613 standards. 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.

» 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 version supports)
Supports HTTPS/SSL. (special version supports)
Supports SSH. (special version supports)
Supports RADIUS. (special version supports)
Supports TACACS+.(special version supports)
Supports user grading. (special version supports)
Supports MAC address limit. (special version supports)
Supports port isolate. (special version supports)

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 version 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 version supports)
Supports LLDP.
Supports Link-check.
Supports loop detection. (special version supports)
Supports CRC protection. (special version supports)

IP Address Management

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

Clock Management

Supports SNTP server/client.

⟫ Product Specifications

Technical 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)

Switching 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 (19×1.73×9.64 in.)
Weight	3Kg (6.61 pound)
Mounting	19 inch 1U rack 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	318,296 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
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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)
▼ IEC61000-4-8(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
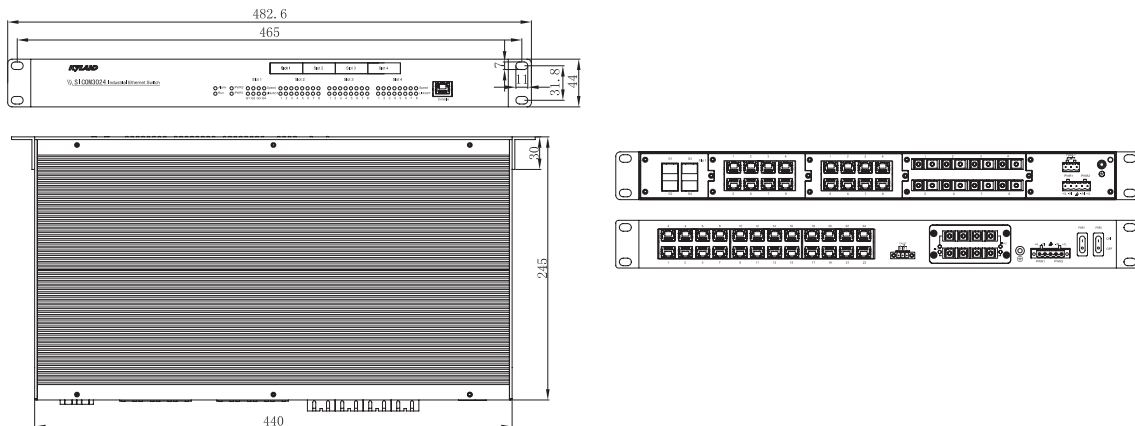
Ordering Information

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	
HV	100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC)
L1	48VDC(36-72VDC)
L3	24VDC(18-36VDC)
PS2	
HV	100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC)
L1	48VDC(36-72VDC)
L3	24VDC(18-36VDC)
None	No secondary power supply

≫ Accessories

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