

SICOM3024P

24+4G Port Layer 2 Managed Rack Mountable Switches



- Supports max 4 gigabit fiber/copper ports and 24 fast Ethernet fiber/copper ports
- Internal modular design for easy expansion
- Supports DT-Ring ,DRP, RSTP for network redundancy(special version supports DRP)
- Supports IEC 61850 MMS management(special version supports)
- Supports alarm and syslog upload
- Complies with IEC 61850-3 and IEEE1613
- KEMA, CE, FCC, UL certification(pending)



» Overview

SICOM3024P is a layer 2 managed industrial Ethernet switch designed to operate reliably in electrically harsh and climatically demanding utility substation and industrial environments. SICOM3024P supports up to 4 gigabit fiber/copper ports and 24 fast Ethernet fiber/copper ports, meets the IEC 61850 and IEEE1613 standards and approved by KEMA. SICOM3024P is a 19-inch 1U rack mountable device and its internal modular design offers the maximum flexibility for easy expansion. SICOM3024P 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.

» 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 DHP and DRP and the recovery time<20 ms (special version supports)
- Supports STP/RSTP

Multicast Protocol

- Supports IGMP snooping

- Supports GMRP
- Supports static multicast

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 binding (special version supports)
- Supports port isolate

Service Quality Management

- Supports ACL
- 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 IEC 61850 MMS management (special version supports)
- Supports software update over FTP
- Supports the IP/MAC address conflict alarm, power failure alarm, power alarm, temperature alarm, port alarm, and ring alarm
- Supports RMON
- Supports port mirroring
- Supports Syslog
- Supports LLDP
- Supports Link-check

IP Address Management

- Supports Bootp

Supports DHCP server/snooping/option 82 (special version supports snooping and option82)

Clock management

Supports SNTP server/client
Supports RTC

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 802.3ad (port aggregation)
- ▼ 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	4Mbit
Packet forwarding rate	9.5Mpps
Switching delay	<10µs

Interface

Gigabit ports	
▼ 1000Base-X, SFP port	
▼ 10/100/1000Base-T(X), RJ45 port	
Fast Ethernet ports	
▼ 100Base-FX, single/multi mode, SC/ST/FC connector	
▼ 100Base-FX, SFP port(LC connector)	
▼ 10/100Base-T(X), RJ45 port	
Console port	RS232,RJ45
Alarm contact	3-pin 5.08mm-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	
▼ 24DC(18-36VDC)	
▼ 48DC(36-72VDC)	
▼ 220AC/DCW(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×322.5mm (19×1.73×12.70 in.)
Weight	4Kg (8.82 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	346,889 hrs
Warranty	5 years

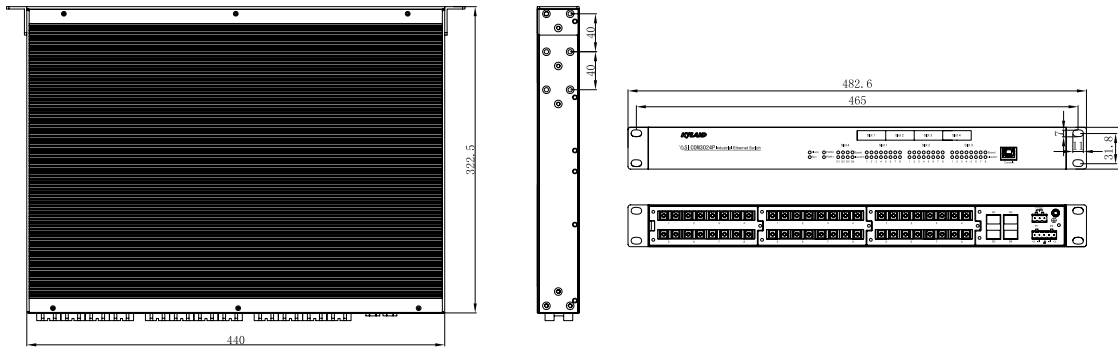
Approvals

KEMA, CE, FCC, UL508 (pending), Class I,Div2 (pending)
Please check Kyland website for the latest updates.

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

SICOM3024P-Ports1Ports2-Connector-PS1-PS2

Ports1	Gigabit ports
4GX	4x1000Base-X,10/100/1000Base-T(X) SFP port
4GE	4x10/100/1000Base-T(X) RJ45 port
2GX	2x1000Base-X,10/100/1000Base-T(X) SFP port
None	No Gigabit port
Ports2	Fast Ethernet ports
24S	24x100Base-FX,single-mode fiber port
24M	24x100Base-FX,multi-mode fiber port
20S4T	20x100Base-FX,single-mode fiber port; 4x10/100Base-T(X) RJ45 port
20M4T	20x100Base-FX,multi-mode fiber port; 4x10/100Base-T(X) RJ45 port
16S8T	16x100Base-FX,single-mode fiber port; 8x10/100Base-T(X) RJ45 port
16M8T	16x100Base-FX,multi-mode fiber port; 8x10/100Base-T(X) RJ45 port
16S	16x100Base-FX,single-mode fiber port
16M	16x100Base-FX,multi-mode fiber port
12S12T	12x100Base-FX,single-mode fiber port; 12x10/100Base-T(X) RJ45 port
12M12T	12x100Base-FX,multi-mode fiber port; 12x10/100Base-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
8S	8x100Base-FX,single-mode fiber port
8M	8x100Base-FX,multi-mode fiber 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
24SFP	24x100Base-FX,SFP port
16SFP8T	16x100Base-FX,SFP port; 8x10/100Base-T(X) RJ45 port
16SFP	16x100Base-FX,SFP port
8SFP16T	8x100Base-FX,SFP port; 16x10/100Base-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 or connector is SFP
PS1	
HV	220AC/DCW(85-264VAC/77-300VDC)
L1	48DC(36-72VDC)
L3	24DC(18-36VDC)
PS2	
HV	220AC/DCW(85-264VAC/77-300VDC)
L1	48DC(36-72VDC)
L3	24DC(18-36VDC)
None	No secondary power supply

 Accessories

Accessory Model	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