

# SICOM3024G

24G port full gigabit layer 2 managed rack mountable switches



## » Overview

SICOM3024G is a full Gigabit layer 2 managed industrial Ethernet switch designed to operate reliably in climatically demanding utility and industrial environments. SICOM3024G is a 19-inch 1U rack mountable device, supports 12 gigabit combo ports and 12 gigabit copper ports which offers the maximum flexibility. SICOM3024G 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 oil & gas, distribution network automation and many other industrial communication systems.

## » Key Features

- Supports max 24 Gigabit ports, include 12 combo ports, Support 1 extension slot
- Supports DT-Ring, DRP, RSTP/MSTP for network redundancy.
- EMC Level 3
- IP30 protection
- CE, FCC

## » Product Specifications

>Software functions  
-Switching function

Supports VLAN, PVLAN

Supports GVRP

Supports port aggregation.

Supports flow control.

Supports Rate limit

Supports broadcast storm suppression.

#### **-Redundancy protocol**

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

Supports DRP and the recovery time < 20 ms.

Supports RSTP/MSTP and compatible with STP.

#### **-Multicast protocol**

Supports IGMP snooping.

Supports static multicast.

#### **-Security**

Supports HTTPS/SSL.

Supports SSH.

Supports user grading.

#### **-Service quality management**

Supports ACL.

Support 802.1p(CoS),DSCP

Supports SP and WRR queuing.

#### **-Management and maintenance**

Supports Console, Telnet, and Web management methods.

Supports SNMPv1/v2c/v3 and can managed by Kyvision.

Supports file transfer and software update over SFTP,TFTP,HTTP,HTTPS.

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

Supports port mirroring.

Supports Syslog.

Supports RMON

Supports LLDP.

Supports SNTP.

**-IP address management**

Supports DHCP server/snooping/client

**>Product Specifications**

**-Technical specifications**

Standard

IEEE 802.3i (10Base-T)

IEEE 802.3u (100Base-T)

IEEE 802.3ab (1000Base-T)

IEEE 802.3ad (port aggregation)

IEEE 802.3z (1000Base-SX/LX)

IEEE 802.3x (flow control)

IEEE 802.1p (priority)

IEEE 802.1Q (VLAN)

IEEE 802.1d(STP)

IEEE 802.1w (RSTP)

IEEE 802.1s (MSTP)

**-Switch properties**

Priority queue 8

Number of VLANs 4K

VLAN ID 1 ~ 4093

Number of multicast groups 8K

MAC table 8K

Packet buffer 4Mbit

Switching delay <5 $\mu$ s

**-Interface**

Gigabit ports

1000Base-X, 100Base-FX, SFP port

10/100/1000Base-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, 10A@1s, 60 W Max

**-LED**

LED on front panel

Alarm LED: Alarm

Running LED: Run

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

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

Power consumption <42W

Overload protection Support

Reverse connection protection Support

Redundancy protection Support

**-Physical Characteristics**

Housing Metal

Cooling Natural cooling, fanless

Protection Class IP30

Dimensions

(W×H×D) 482.6mm×44mm×325mm

Weight < 10 Kg

Mounting 19 inch 1U rack mounting

**-Environmental limits**

Operating temperature -20°C to +60°C

Storage temperature -40°C to +85°C

Ambient Relative Humidity 5% to 95% (non-condensing)

**-Quality assurance**

MTBF 972889h

Warranty 5 years

**-Approvals**

CE,FCC

**-Industry standard**

EMI

FCC CFR47 Part 15,EN55022/CISPR22,Class A

EMS

IEC61000-4-2(ESD)  $\pm 6\text{kV}$ (contact), $\pm 8\text{kV}$ (air)

IEC61000-4-3(RS) 10V/m(80MHz-2GHz)

IEC61000-4-4(EFT) Power Port: $\pm 2\text{kV}$ ;Data Port: $\pm 1\text{kV}$

IEC61000-4-5(Surge) Power Port: $\pm 1\text{kV}/\text{DM}$ , $\pm 2\text{kV}/\text{CM}$ ;Data Port: $\pm 2\text{kV}$

IEC61000-4-6(CS) 10V(150kHz-80MHz)

IEC61000-4-8(power frequency magnetic field) 30A/m(cont.)

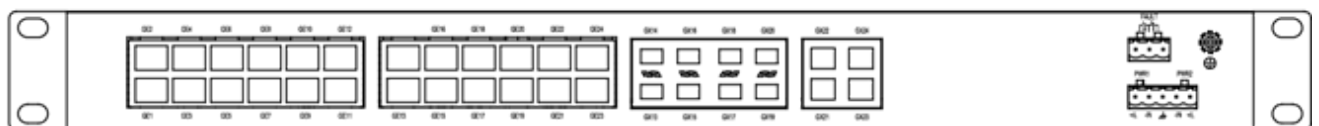
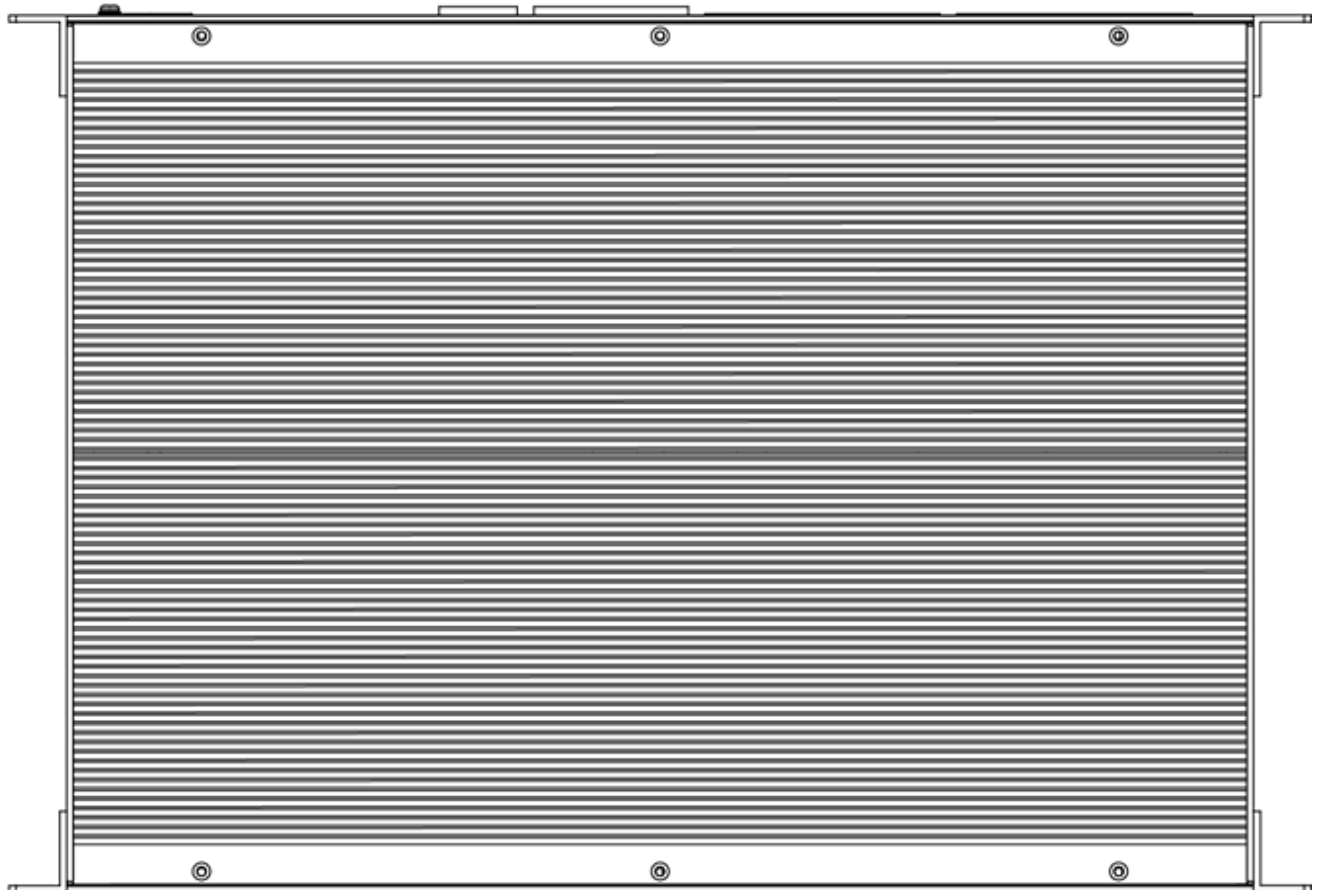
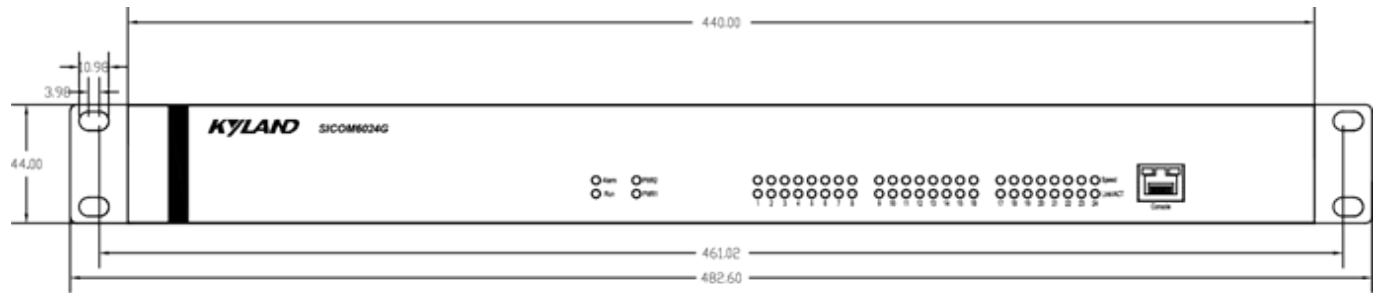
Machinery

IEC60068-2-6 (vibration)

IEC60068-2-27 (shock)

IEC60068-2-32 (free fall)

**» Mechanical Drawing**



## » Ordering Information

### Ordering Information

Product Model	SICOM3024G-Ports-PS1-PS2
Code definition	Code selection

Ports:	12G12GE=12×1000Base-X, 10/100/1000Base-T(X) combo ports; 12×10/100/1000Base-T(X) RJ45 ports
PS1-PS2: power input	HV-HV=100-240VAC,50/60Hz;110-220VDC(85-264VAC/77-300VDC), redundant power inputs

### 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

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