

SICOM6024G

24G Port Layer 3 Managed Industry Ethernet Switch



» Overview

SICOM6024G is a layer 3 managed industrial Ethernet Switch designed to operate reliably in industrial environments. SICOM6024G is a 19-inch rack mountable device and supports up to 12 gigabit combo ports and 12 gigabit RJ45 ports. Combo ports support flexibility option of 1000 Base-T(X) RJ45 or 1000 Base-X Fiber. SICOM6024G supports features such as port, VLAN, multicast, Qos, fast redundant ring and Layer 3 functions such as static routing, RIP and OSPF, and supports Console, Telnet, Web management and network management software based on SNMP. At present, the product is widely used at the backbone networks in many industrial communication systems.

» Key Features

Supports combo gigabit ports with option of 1000 Base-T(X) RJ45 or 1000 Base-X Fiber

Support Max 24 gigabit RJ45 ports, or Max 12 gigabit Fiber SFP ports

Supports DT-Ring ,STP/RSTP/MSTP and VRRP for network redundancy

Supports Layer 3 Static routing and routing protocols such as RIP v1/v2 and OSPF

Supports Qos, VLAN, SNMP v1/v2/v3, RMON(1,2,3,9 Group)

Supports SFP Digital Diagnostics Monitoring

IP30 protection class

» Product Specifications

>Software functions

-Switching

Supports VLAN,PVLAN

Supports port trunk

Supports port flow control

Supports speed limit, broadcast storm control

-Redundancy

Supports VRRP

Supports DT-ring, DT-ring+, DT-VLAN with the recovery time<50ms

Supports DRP, with the recovery time<20ms

Supports RSTP/MSTP

-Multicast

Supports IGMP-snooping

Supports GMRP

Supports static multicast

-Routing

Supports OSPFv2

Supports static routing

Supports RIPv1/v2

Supports IGMP

Supports PIM-SM

-Network Security

Supports IEEE 802.1x

Supports HTTPS/SSL, SFTP Client

Supports SSH

Supports RADIUS

Supports user classification

-Service Quality

Supports ACL

Supports 802.1p and TOS/DiffServ, Supports SP,WRR queue scheduling

-Management and Maintenance

Supports Console,Telnet,WEB management methods

Supports SNMPv1/v2c/v3,Kyvison centralized management

Supports software upgrade by FTP/TFTP

Supports RMON

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

Supports port mirroring

Supports Syslog

Supports LLDP

Supports SFP Digital Diagnostics Monitoring

-IP Management

Supports DHCP server/client/server option 82

-Clock management

Supports SNTP client

>Technical Specification

-Technical Parameter

Standard

IEEE 802.3i(10Base-T)

IEEE 802.3u(100Base-T)

IEEE 802.3ab(1000Base-T)

IEEE 802.3z(1000Base-SX/LX)

IEEE 802.3ae(10GBase-X)

IEEE 802.3ad

IEEE 802.3x

IEEE 802.1p

IEEE 802.1Q(VLAN)

IEEE 802.1w(RSTP)

IEEE 802.1s(MSTP)

IEEE 802.1x

-Switch Properties

Priority Queues 8

Number of VLANs 4K

VLAN ID 1-4093

Number of Multicast Groups 256(L2 multicast groups)

Routing Table 3.9K

MAC Table 16K

Packet Buffer 35.7Mpps

-Interface

Gigabit Port 10/100/1000Base-T(X), RJ45 ports

Fast Ethernet Port 100Base-X/1000Base-X, SFP ports

10/100/1000Base-T(X), RJ45 ports

Console Port RS232, RJ45

Alarm Terminal 3-pin 5.08mm-spacing plug-in terminal block, 250 VAC/220 VDC Max, 2A Max, 10A@1s, 60W Max

-LED

LEDs on Front Panel

Running LED: Run

Alarm LED: Alarm

Power LED: PWR1,PWR2

Interface LED: Link/ACT

-Power Requirements

Power Input 220AC/DC(85-264VAC/120-300VDC)

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

Power Consumption <38W

Overload Protection Support

Reverse Connection Protection Support

Redundancy Protection Support

-Physical Characteristics

Housing Metal

cooling Nature cooling,fanless

Protection Class IP30

Dimensions 483mm×44mm×325mm(W×H×D)

Weight 6.5kg

Mounting 19 inch rack mounting

-Environmental Limits

Operating Temperature -20°C ~ +60°C

Storage Temperature -40°C ~ +85°C

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

-Warranty

MTBF 751386 h

Warranty Period 5 years

-Approvals

CE FCC

-Industrial Standard

EMI

FCC CFR47 Part 15,EN55022/CISPR22,Class A

EMS

IEC61000-4-2(ESD) ±6kV(contact),±8kV(air)

IEC61000-4-3(RS) 80MHz-1000MHz : 10V/m and 20V/m , 1.4GHz-2.1GHz : 10V/m , 2.1GHz-2.5GHz : 5V/m

IEC61000-4-4(EFT) Power Port:±2kV;Data Port:±2kV

IEC61000-4-5(Surge) Power Line to line 1KV ; Line to earth 2KV

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

IEC61000-4-8 (Power frequency magnetic field) 300A/m(16.7Hz,50Hz,0Hz)

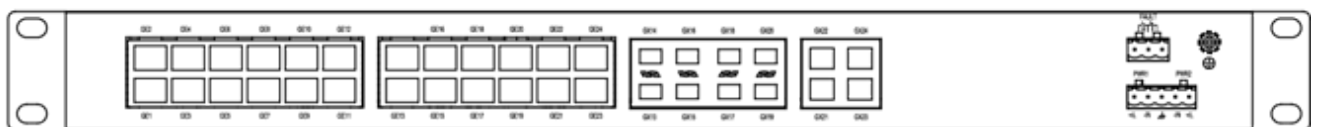
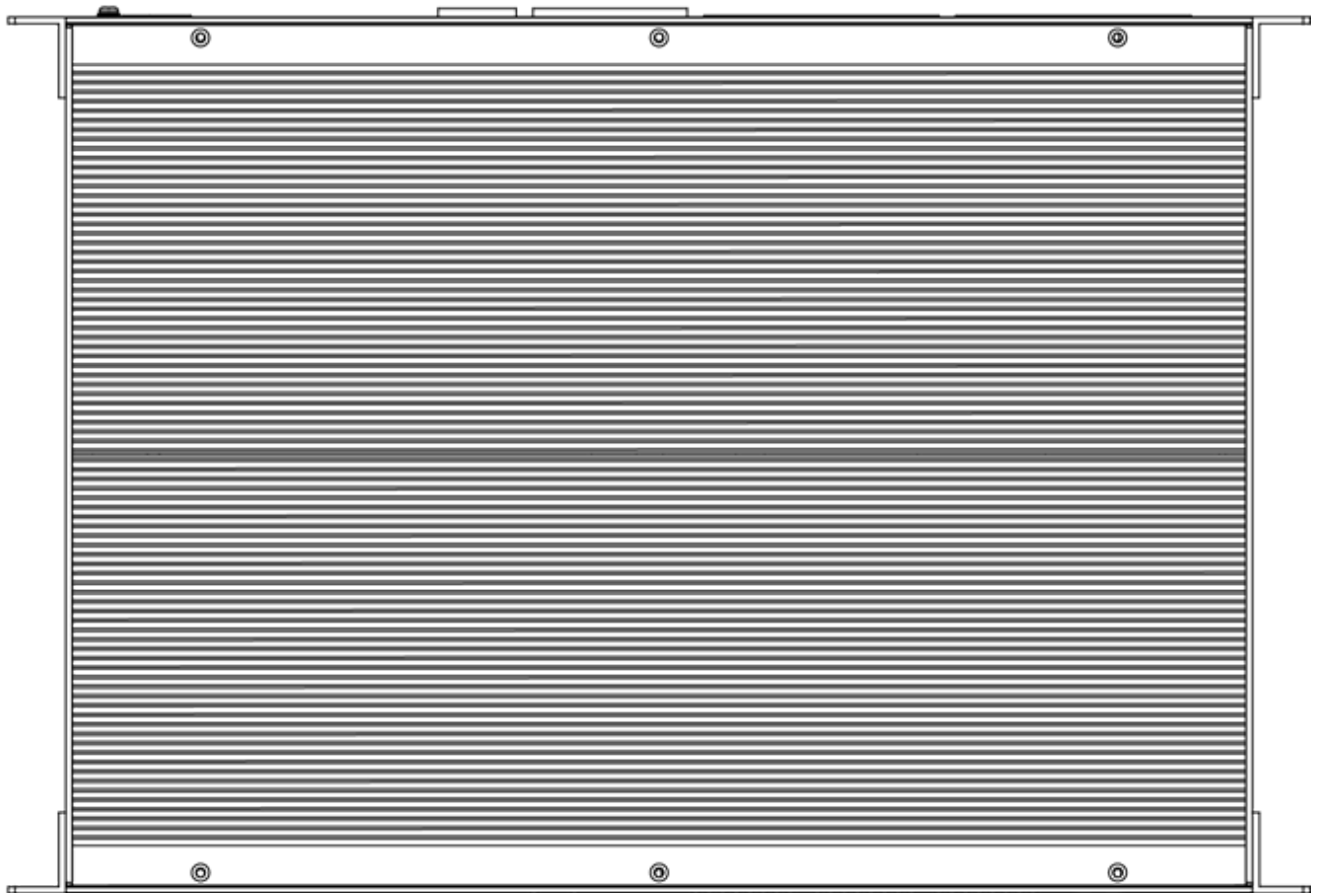
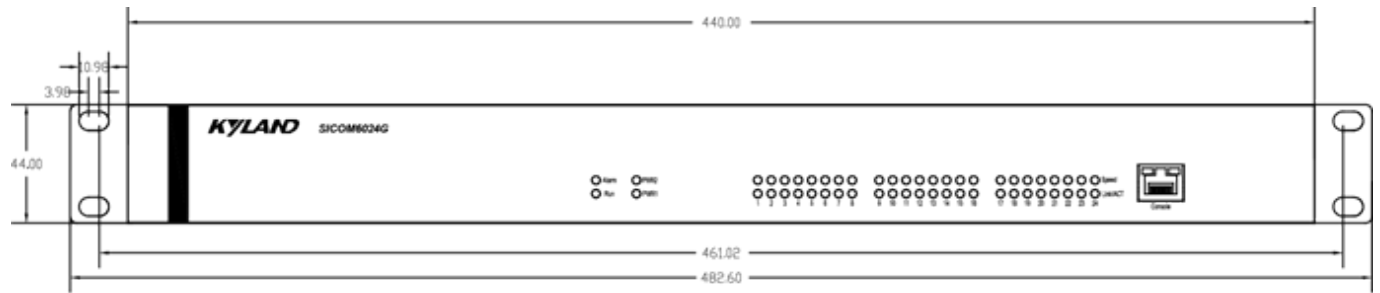
IEC61000-4-9(Pulsed magnetic field) 300A/m

Machinery

IEC60068-2-6(Vibration)

IEC60068-2-27(Shock)

IEC60068-2-32(Free Fall)



Ordering Information

Recommended Models

Product Model	SICOM6024G-port-PS1-PS2
Code Definition	Ordering Codes

Ports	12G12GE=12×1000Base-X,10/100/1000Base-T(X) Combo ports; 12×10/100/1000Base-T(X) RJ45 ports
PS1-PS2 (Power Supply)	HV-HV=220AC/DCW(85-264VAC/77-300VDC), redundant power input

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

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