

SICOM6432G

32G/24G+4*10G port layer 3 managed rack mountable switches



» Overview

SICOM6432G is a layer 3 managed industrial Ethernet switch designed to operate reliably in electrically harsh and climatically demanding industrial environments. SICOM6432G supports up to four 10 gigabit ports, 32 gigabit ports. SICOM6432G is a 19-inch rack mountable device and its combo ports design offers the maximum flexibility for easy expansion. SICOM6432G supports many Layer 2 software features such as port, VLAN, multicast, QoS, fast redundant ring and Layer 3 functions such as RIP, OSPF, PIM-SM, PIM-DM. It 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 four 10 gigabit ports, 32 gigabit ports

Supports DRP/DHP, STP/RSTP/MSTP, ERPS(G.8032) and VRRP for network redundancy

Supports MRP(PENDING)

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

Support NAT

Support PTPv2

IP40 protection class

Product Specifications

>Software functions

-Switching function

Supports VLAN, PVLAN

Supports port aggregation

Supports flow control

Supports broadcast storm suppression

Supports port rate limit

-Redundancy protocol

Supports VRRP

Supports ERPS(G.8032)

Supports DRP/DHP with recovery time<20 ms

Supports RSTP/MSTP and compatible with STP

Supports MRP(PENDING)

-Multicast protocol

Supports GMRP

Supports IGMP snooping

Supports PIM SM and PIM DM

-Routing protocol

Supports RIPv1/v2

Supports OSPFv2

Supports static routing

Supports IGMP

-Security

Supports IEEE 802.1x

Supports HTTPS/SSL,SFTP Client

Supports SSH

Supports RADIUS

Supports user classification

-Service quality management

Supports ACL

Supports 802.1p and TOS/DiffServ, 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 FTP and TFTP

Supports RMON

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

Supports port mirroring

Supports Syslog

Supports LLDP

Supports DDM

-IP address management

Supports DHCP Server/Client/Server option 82

Supports NAT

-Clock management

Supports SNTP Client

Supports NTP

Supports PTPv2

>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 802.3ae(10GBase-X)

IEEE 802.3ad (port aggregation)

IEEE 802.3x (flow control)

IEEE 802.1p (priority)

IEEE 802.1Q(VLAN)

IEEE 802.1w(RSTP)

IEEE 802.1s(MSTP)

IEEE 802.1x

-Switch properties

Priority queue: 8

Number of VLANs: 4K

VLAN ID: 1-4093

Number of multicast groups: 1K

Routing table: 4K

MAC table: 32K

Packet buffer:32Mbit

Packet forwarding rate: 107 Mpps

-Interface

10 Gigabit ports: 10GBase-X, SFP+ port

Gigabit ports: 1000Base-X, SFP port

10/100/1000Base-T(X): RJ45 port

Console port: RS232,RJ45

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

-LED

Alarm LED: Alarm

Running LED: Run

Power LED: PWR1, PWR2

Port LED: Link/ACT

-Power Requirements

Power input: 220VAC/DC(85-264VAC/77-300VDC); 24-48VDC(18-72VDC)

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

Power consumption: < 40 W

Overload protection: Support

Reverse connection protection: Support

Redundancy protection: Support

-Physical Characteristics

Housing: Metal

Cooling: Natural cooling, fanless

Protection Class: IP40

Dimensions(W×H×D): 483 mm × 44mm × 245mm

Weight: 4 Kg

Mounting: 19 inch rack mounting

-Environmental limits

Operating temperature: -40°C to +75°C

Storage temperature: -40°C to +85°C

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

-Quality assurance

MTBF: 460670h

Warranty: 5 years

-Approvals

CE , FCC

EMC: EN 55032, EN 55035, EN 61000-6-4, EN 61000-6-2

Rail Traffic: EN 50121

IEC 62368-1, EN 62368-1

-Industry standard

EMI

FCC CFR47 Part 15,EN55032/CISPR22,Class A

EMS

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

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

IEC61000-4-4(EFT) Power Port:±2kV;Data Port:±1kV

IEC61000-4-5(Surge) Power Port:±2kV/DM,±1kV/CM;Data Port:±2kV

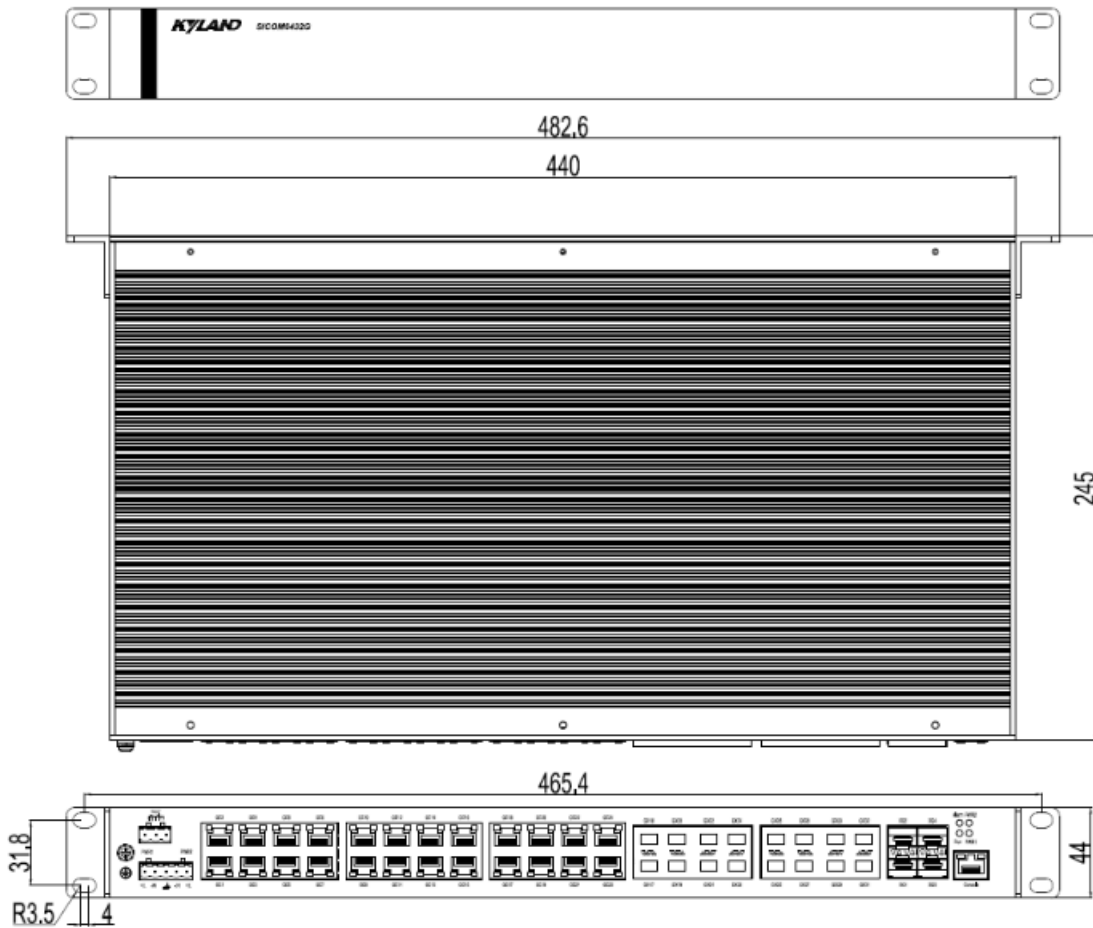
IEC61000-4-6(CS) 10V(150kHz-80MHz)

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

Ordering Information

Product Model	SICOM6432G-Ports-PS1-PS2
Code definition	Code selection
Ports:	4X8G8GX16GE: 4×10GBase-X SFP+ ports, 8×1000Base-X,10/100/1000Base-T(X) Combo ports, 8×1000Base-X SFP ports, 16×10/100/1000Base-T(X) ports 4X24GE: 4×10GBase-X SFP+ ports, 24×10/100/1000Base-T(X) ports 8G8GX16GE: 8×1000Base-X,10/100/1000Base-T(X) Combo ports, 8×1000Base-X SFP ports, 16×10/100/1000Base-T(X) ports 4GX24GE: 4×1000Base-X SFP ports, 24×10/100/1000Base-T(X) ports

PS1-PS2: power input	HV-HV=220VAC/DC(85-264VAC/77-300VDC), redundant power inputs L2-L2=24-48VDC(18-72VDC), redundant power inputs HV=220VAC/DC(85-264VAC/77-300VDC), single power input L2=24-48VDC(18-72VDC), single power input
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Accessories

Accessory Model	Description
Gigabit SFP module	See the selection table of industrial gigabit SFP module.
10 Gigabit SFP+ module	See the selection table of industrial 10 gigabit SFP+ module.
DT-FCZ-RJ45-01	Single-port RJ45 dust plug

Version:2023-04-11 14:29:06