

# SICOM3432G

32G/24G+4\*10G port layer 2 managed rack mountable switches



## » Overview

SICOM3432G is a full Gigabit layer 2 managed industrial Ethernet switch designed to operate reliably in climatically demanding utility and industrial environments. SICOM3432G is a 19-inch 1U rack mountable device, supports up to four 10 gigabit ports, 32 gigabit ports. SICOM3432G 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 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) for network redundancy

Supports MRP

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

Supports SFP Digital Diagnostics Monitoring

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 ERPS(G.8032)

Supports DRP/DHP with recovery time<20 ms

Supports RSTP/MSTP and compatible with STP

Supports MRP

**-Multicast protocol**

Supports GMRP

Supports IGMP snooping

**-Routing protocol**

Supports static routing

**-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

#### **-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: 256

Routing table: 3.9K

MAC table: 16K

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)  $\pm 6\text{kV}$ (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: $\pm 2\text{kV}/\text{DM}$ , $\pm 1\text{kV}/\text{CM}$ ;Data Port: $\pm 2\text{kV}$

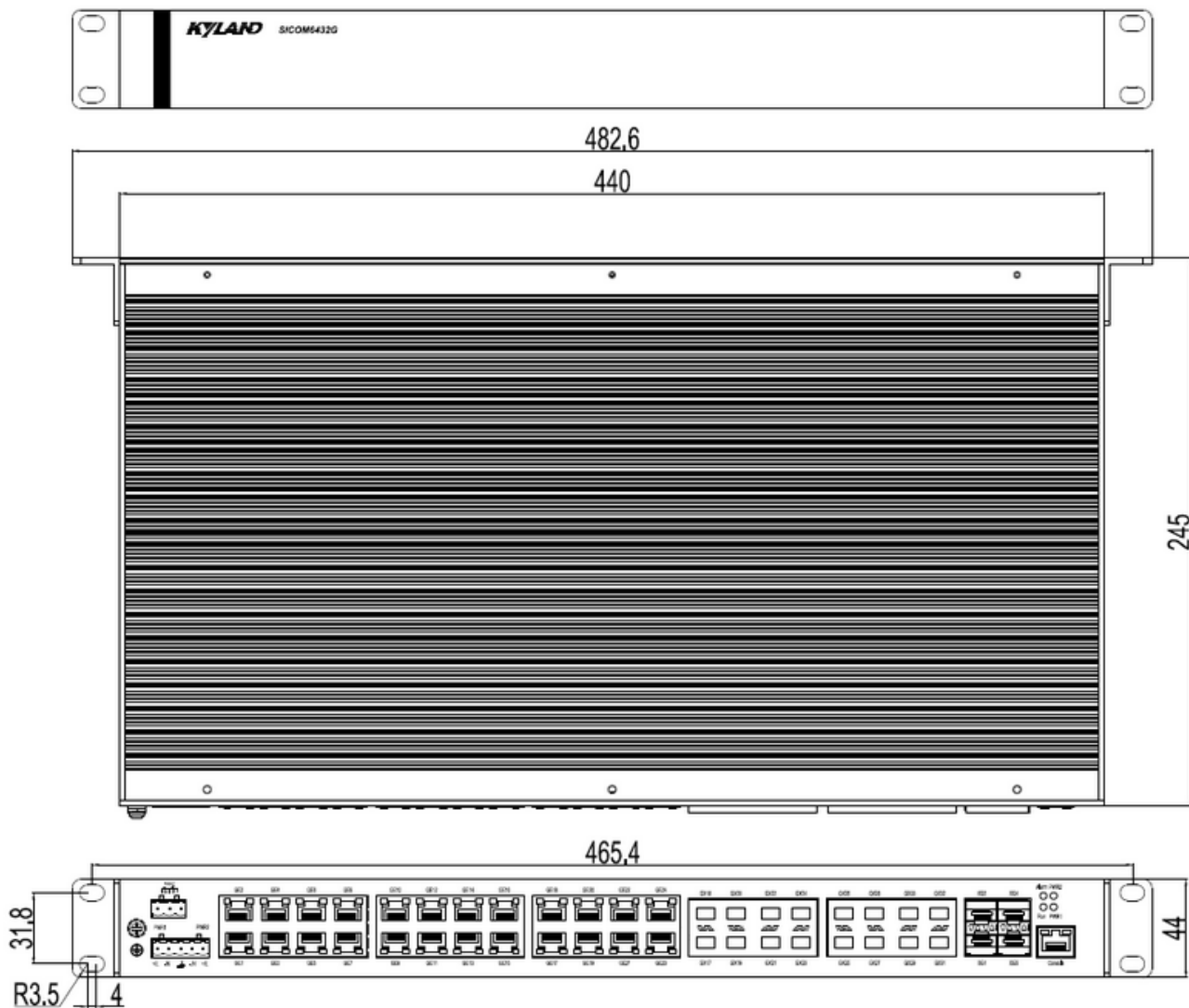
IEC61000-4-6(CS) 10V(150kHz-80MHz)

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

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Product Model	SICOM3432G-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

**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

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