

SICOM6448G

48G+4*10G port layer 3 managed rack mountable switches



>> Overview

SICOM6448G is a layer 3 managed industrial Ethernet switch designed to operate reliably in electrically harsh and climatically demanding industrial environments. SICOM6448G supports up to four 10 gigabit ports, 48 gigabit RJ45 ports or 16 gigabit RJ45 ports and 32 gigabit SFP ports. SICOM6448G is a 19-inch rack mountable device and its combo ports design offers the maximum flexibility for easy expansion.SICOM6448G supports many Layer 2 software features such as port, VLAN, multicast, QoS, fast redundant ring and Layer 3 functions such as RIP, OSFP, 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, 48 gigabit RJ45 ports or 16 gigabit RJ45 ports and 32 gigabit 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 IP40 protection class





Software functionsSwitching function

Supports VLAN, PVLAN Supports port aggregation Supports flow control Supports broadcast storm suppression Supports port rate limit

-Redundancy protocol

Supports VRRP Supports DT-Ring, DT-Ring+, and DT-VLAN and the recovery time<50 ms Supports DRP/DHP with recovery time<20 ms Supports RSTP/MSTP and compatible with STP

-Multicast protocol

Supports Static multicast Supports GMRP Supports IGMP snooping Supports PIM SM(pending) and PIM DM(pending)

-Routing protocol

Supports RIPv1/v2 Supports OSFPv2 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

bervice quality manager

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 >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

Industrial Ethernet Solutions



Number of VLANs: 4K VLAN ID: 1–4093 Number of multicast groups: 256 Routing table: 3.9K MAC table: 16K Packet Buffer: 12Mbit Packet forwarding rate: 130.9 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 100-240VAC,50/60Hz;110-220VDC (85-264VAC/77-300VDC) Power terminal 5-pin 5.08 mm-spacing plug-in terminal block Power consumption <72W 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 × 88mm × 325mm Weight: 10.5 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

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)

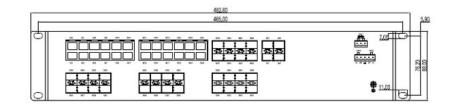
IEC61000-4-16(common mode conduction) 30V(cont.),300V(1s)

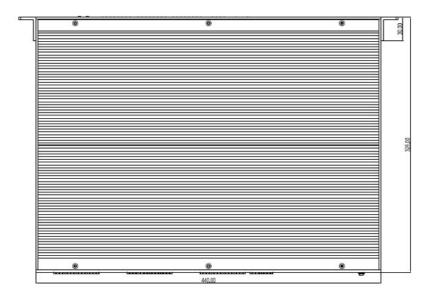
Machinery

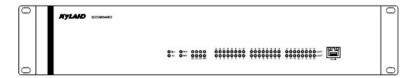
IEC60068-2-6 (vibration), IEC60068-2-27 (shock), IEC60068-2-32 (free fall)

>> Mechanical Drawing









Ordering Information

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Product Model	SICOM6448G-Ports-PS1-PS2
Code definition	Code selection
Ports:	4X20G28GE=4×10GBase-X SFP+ ports ; 20×1000Base-X,10/100/1000Base- T(X) Combo ports; 28×10/100/1000Base-T(X) RJ45 ports 4X8G24GX16GE=4×10GBase-X SFP+ ports; 8×1000Base- X,10/100/1000Base-T(X) Combo ports;24×1000Base-X SFP ports; 16×10/100/1000Base-T(X) RJ45 ports 20G28GE=20×1000Base-X,10/100/1000Base-T(X) Combo ports; 28×10/100/1000Base-T(X) RJ45 ports 8G24GX16GE= 8×1000Base-X,10/100/1000Base-T(X) Combo ports;24×1000Base-X SFP ports ; 16×10/100/1000Base-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.
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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