SICOM6432G

Layer 3 32G/28G +4 x10G Port Full Gigabit Managed Rack Mountable Switches

- 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 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

IEC 62439-6 G.8032

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, 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.

Product Specifications

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

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
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: 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: 220AC/DC(85-264VAC/120-300VDC);24-48VDC(18-72VDC)
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 (-40°F to 167°F)
Storage temperature: -40°C to +85°C (-40°F to 185°F)
Ambient Relative Humidity: 5% to 95% (non-condensing)

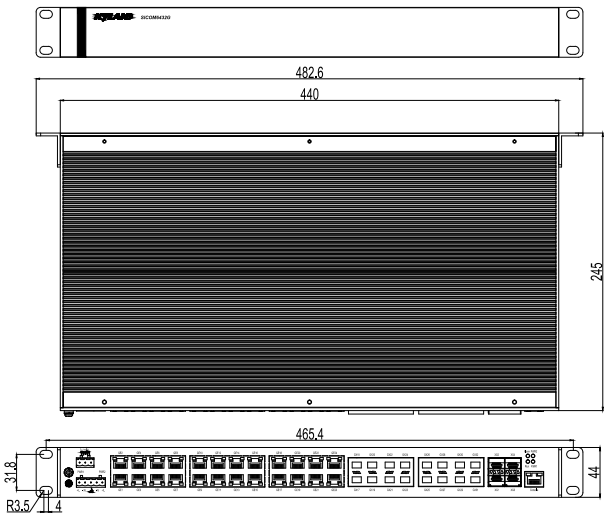
Quality Assurance
MTBF: 460670h
Warranty: 5 years

Industrial Standard
EMI:
FCC CFR47 Part 15,EN55022/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

SICOM6432G-Ports-PS
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
PS:
HV-HV=220AC/DCW(85-264VAC/77-300VDC), redundant power supplies
L2-L2=24-48VDC(18-72VDC), redundant power supplies
HV=220AC/DCW(85-264VAC/77-300VDC), single power supply
L2=24-48VDC(18-72VDC), single power supply