

SICOM3010G



Layer 2 10G Port Full Gigabit Managed Din-Rail IEC61850 Switch

- Green Ethernet solution with ultra low power consumption design
- As low as 9.5 watts full load power consumption
- 2 Gigabit Combo ports, 2 Gigabit SFP slots and 6 10/100/1000Base-TX ports
- Supports IEC62439-6, DT-Ring protocols and MSTP
- Supports one-key recovery
- Provides Mini USB Console port, supports setting backup and recovery through USB
- Supports VCT (Virtual Cable Test)
- IP40 protection class
- UL508 (pending), Class 1 Div 2 (pending), CE, FCC certificates



Overview

SICOM3010G is equipped with 10 Gigabit Ethernet ports and up to 4 fiber optic ports, making it ideal for Gigabit backbone network which requires a higher performance bandwidth for transferring large amounts of video, voice, and data across a network quickly. Redundant Ethernet IEC62439-6/DRP ring protocol, DT-Ring/+ and MSTP increase system reliability and the availability of your network backbone. The SICOM3010G series is designed especially for communication demanding applications, such as video and process monitoring, shipbuilding, ITS, and DCS systems, all of which can benefit from a scalable backbone construction.

Features & Benefits

1. Redundancy Technology: supports IEC62439-6 (recovery time<20ms), DT-Ring protocols (recovery time<50ms) and MSTP
2. Multicast Protocol: supports IGMP Snooping, GMRP and static multicast
3. Network Partition: supports VLAN, GVRP, PVLAN
4. Service Quality: supports QoS
5. Bandwidth Management: supports port trunking, port speed limit, broadcast storm control
6. Network Management and Monitoring: supports CLI, Telnet, WEB management methods, Kyvision centralized management, SNMPv1/v2/v3, RMON, LLDP, SNMP, DHCP
7. Network Security: supports MAC address binding with port, IEEE802.1X, SSH, SSL, TACACS+, ACL
8. Device Management: supports FTP/TFTP upgrade, also supports Syslog upload and download
9. Device Maintenance: supports port mirroring, VCT (Virtual Cable Test)
10. Alarm Output: supports IP/MAC conflicts, power, port and ring alarms
11. Special Function: supports Link Check and Loop Status Check

Technical Specifications

Standard

IEEE 802.3i, IEEE 802.3u, IEEE 802.3ab, IEEE802.3ac, IEEE 802.3ad, IEEE 802.3z, IEEE 802.3x, IEEE 802.1p, IEEE 802.1Q, IEEE 802.1s, IEEE 802.1X

Protocols

DT-Ring, DT-Ring+, DT-VLAN, MSTP, DRP;
 IGMP Snooping, GMRP;
 VLAN, GVRP, PVLAN;
 Telnet, HTTP, HTTPS, SNMPv1/v2/v3, RMON, LLDP, SNMP, BootP, DHCP server/relay/client, DHCP Option 82; SSH, SSL, TACACS+, ACL;
 Syslog, FTP, TFTP;
 LACP, ARP, QoS, Modbus TCP

Switch Properties

Priority Queues: 4
 Number of VLANs: 256
 VLAN ID: 1-4094
 Number of Multicast Groups: 256
 MAC Table: 8K
 Packet Buffer: 1Mbit
 Packet Forwarding Rate: 14.9Mpps
 Switching Delay: <5μs

Interface

Gigabit SFP Slots: 2 1000Base SFP slots
 Gigabit RJ45 Ports: 6 10/100/1000Base-TX RJ45 ports
 Gigabit Combo Ports: 2 combo 1000Base SFP slots or 10/100/1000Base-TX ports
 Console Port: Mini USB
 Alarm Contact: 3-pin 5.08mm-spacing plug-in terminal block, 250VAC/220VDC Max, 2A Max, 60W Max

LED

LEDs on Front Panel:
 Running LED: Run
 Alarm LED: Alarm
 Power LED: PWR1, PWR2
 Ring LED: Ring
 Interface LED: Link/ACT, Speed (RJ45 port)

Reset Button

Reboot and restore default configuration

Transmission Distance

Twisted Pair:
 100m (Standard CAT5, CAT5e network cable)
 Multi Mode Fiber: 850nm, 550m (1000M)
 Single Mode Fiber:
 1310nm, 10km/40km (1000M)
 1550nm, 60km/80km (1000M)

Power Requirements

Power Input: 24DCW (18-72VDC)
 Power Terminal: 5-pin 5.08mm-spacing plug-in terminal block
 Power Consumption: 9.5W

Overload Protection: Support
 Reverse Connection Protection: Support
 Redundancy Protection: Support

Physical Characteristics

Housing: Metal, fanless
 Protection Class: IP40
 Dimensions (W×H×D):
 88×135×137mm (3.46×5.31×5.39 in.)
 Weight: 1.25kg (2.756 pound)
 Mounting: DIN-Rail or panel mounting

Environmental Limits

Operating Temperature: -40 to 85°C (-40 to 185°F)
 Storage Temperature: -40 to 85°C (-40 to 185°F)
 Ambient Relative Humidity: 5 to 95% (non-condensing)

MTBF

345,000 hrs

Warranty

5 years

Approvals

UL508 (pending), Class 1 Div 2 (pending), CE, FCC

Industrial Standard

EMI:
 FCC CFR47 Part 15, EN55022/CISPR22, Class A

EMS:

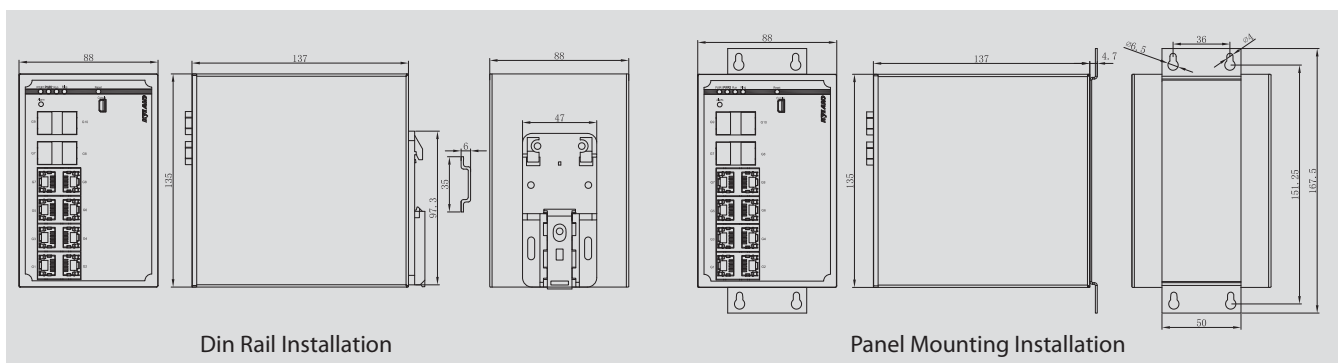
IEC61000-4-2 (ESD): ±8kV (contact), ±15kV (air)
 IEC61000-4-3 (RS): 10V/m (80MHz-2GHz)
 IEC61000-4-4 (EFT): Power Port: ±4kV; Data Port: ±2kV
 IEC61000-4-5 (Surge): Power Port: ±2kV/DM, ±4kV/CM; Data Port: ±2kV
 IEC61000-4-6 (CS): 3V (10kHz-150kHz); 10V (150kHz-80MHz)
 IEC61000-4-16 (Common mode conduction): 30V (cont.), 300V (1s)

Machinery:

IEC60068-2-6 (Vibration)
 IEC60068-2-27 (Shock)
 IEC60068-2-32 (Free Fall)

Industry: IEC61000-6-2
 Railway: EN50155, EN50121-4
 Traffic Control: NEMA TS-2

➤ Mechanical Drawing



➤ Ordering Information

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 Ports PS

Ports

2GX/GE-6GE = 2 Gigabit combo ports, 6 10/100/1000Base-TX RJ45 ports
 2GX/GE-2GX-6GE = 2 Gigabit combo ports, 2 1000Base-X SFP ports, 6
 10/100/1000Base-TX RJ45 ports

PS: Power Supply

24DCW = 18-72VDC, dual redundant power inputs

Example Order Codes

SICOM3010G-2GX/GE-6GE-24DCW

2 Gigabit combo ports, 2 1000Base-SFP ports, 6 10/100/1000Base-TX ports,
 24DCW(18-72VDC) dual redundant power inputs