SICOM3024GS
24G+4*10G port layer 2/3 managed rack mountable PoE switches

⟫ Overview

SICOM3024GS is layer 2 & layer 3 Managed PoE Industrial Ethernet Switch. SICOM3024GS is a 19-inch rack mountable device, it supports maximum four 10 gigabit ports or 4 gigabit SFP ports, 24 gigabit RJ45 PoE ports, It supports IEEE802.3af and at for PoE function, and support 220VAC for power supply. The PoE output is up to Max 240W. SICOM3024GS supports DT-Ring (recovery time<50ms), DRP/DHP (recovery time<20ms), STP/RSTP/MSTP, VLAN, multicast, QoS, SSH and many other Layer 2 software features, and Layer 3 functions such as static routing, RIP, OSFP, PIM-SM, PIM-DM. SICOM3024GS is especially designed for harsh environments with wide operating temperature range, EMC level 3, IP40 protection class, and can be deployed in Oil & gas, Transportation, ITS, Factory automation, power, Video monitoring and many other industrial applications.

⟫ Key Features

Supports maximum four 10 gigabit ports or 4 gigabit SFP ports, 24 gigabit RJ45 PoE ports

Supports 802.3af/802.3at PoE ports, maximum 15/30W each port

Supports a total of 240W for the whole PoE ports

Supports DRP/DHP, DT-Ring, STP/RSTP/MSTP for network redundancy

Supports Hardware-based IEEE1588 PTPv2, synchronization precision ±100 ns

Supports Automatic Configuration Backup and Restoration

IP40 protection class

Operating temperature -40°C to +75°C

CE (Pending), FCC (Pending)

⟫ Product Specifications

>Software functions
-Switching

Supports VLAN, PVLAN

Supports GVRP

Supports port aggregation, LACP

Supports port flow control

Supports Rate limit based on flow (ACL Rate Limiter)

Supports Global broadcast storm suppression (QOS Storm Policing)

-Redundancy

Supports DT-Ring, DT-Ring+, DT-VLAN with the recovery time<50ms

Supports DRP/DHP with the recovery time<20ms

Supports STP/RSTP/MSTP

-Multicast

Supports IGMP snooping

Supports GMRP

Supports static multicast

Supports IGMPv2/v3

-Routing Protocol

Supports OSFPv2

Supports static routing

Supports RIPv1/v2

Supports IGMP

Supports PIM SM and PIM DM

-Network Security

Supports IEEE802.1X

Supports HTTPS/SSL, SFTP Client

Supports SSH

Supports RADIUS

Supports TACACS+

Supports User Classification

Supports MAC address binding with switch ports

-Service Quality

Supports ACL

Supports QoS, 802.1p(CoS), DSCP

Supports SP, WRR queue scheduling

-Management and Maintenance

Supports Console, Telnet, WEB management methods

Supports SNMPv1/v2c/v3, Kyvision centralized management

Supports software upgrade by SFTP/HTTP

Supports Power alarm, IP/MAC conflict alarm, Memory/CPU usage alarm, Port alarm, Ring alarm, Port traffic alarm, CRC error and packet lose alarm, SFP port RX power alarm and TX power alarm

Supports DDM (SFP port)

Supports loop detection

Supports RMON

Supports port mirroring

Supports Syslog

Supports LLDP

Supports Link-check

-IP Management

Supports DHCP server/option12

Supports Port Security over DHCP

Supports DHCP-relay-agent/option 82/61

Supports DHCP Relay Agent Information Option

Supports DHCP Client

Supports DNS

Supports ARP

Supports NAT

-Clock Management

Supports SNTP client

Supports NTP client

Supports PTPv2, synchronization precision ±100 ns

-PoE Management

Support PoE port configuration and PD detection

Support PoE port power supply priority configuration

Support state query and alarm, remote management

>Technical specifications
-Technical Parameter

Standard

IEEE 802.3i (10Base-T)

IEEE 802.3u (100Base-T)

IEEE 802.3ab (1000Base-T)

IEEE 802.3z (1000Base-SX/LX)

IEEE 802.3ae(10GBase-X)

IEEE 802.3ad (Link aggregation)

IEEE 802.3x (Flow Control)

IEEE 802.1p (Class of Service)

IEEE 802.1Q (VLAN)

IEEE 802.1d (STP)

IEEE 802.1w (RSTP)

IEEE 802.1s (MSTP)

IEEE 802.1x (Network Access Control)

IEEE 802.1ab (LLDP)

IEEE 802.3af PoE

IEEE 802.3at PoE+

-Switch Properties

Priority queue: 8

Number of VLANs: 4K

VLAN ID: 1–4093

Number of multicast groups: 256

MAC table: 16K

Packet buffer: 32Mbit

Packet forwarding rate: 83.3Mpps

Switching Delay <10μs

Jumbo Frame Size 9.6KB

-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

1 USB port: Supports Automatic Configuration Backup and Restoration

-LED

Running LED: Run

Alarm LED: Alarm

Power LED: PWR1, PWR2

Port LED: Link/ACT

POELED: ACT

-Power Requirements

Power input: 220VAC

Power Terminal: 5-pin 7.62 mm-spacing plug-in terminal block

Power consumption: <40W(Non PD), PoE output 240W Max

Overload protection: Support

Reverse connection protection: Support

Redundancy protection: Support

-Physical Characteristics

Housing Metal

Cooling Natural convection, fanless

Protection Class IP40

Dimension 483mm×44mm×356mm(W×H×D)

Weight ＜5kg

Mounting 19 inch 1U 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: >300000h

Warranty: 5 years

-Approvals

CE (Pending), FCC (Pending)

-Industry Standard

EMI

FCC CFR47 Part 15,EN55022/CISPR22,Class A

EMS

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

IEC61000-4-3(RS) 80MHz-1000MHz: 10V/m and 20V/m, 1.4GHz-2.1GHz: 10V/m, 2.1GHz-2.5GHz: 5V/m

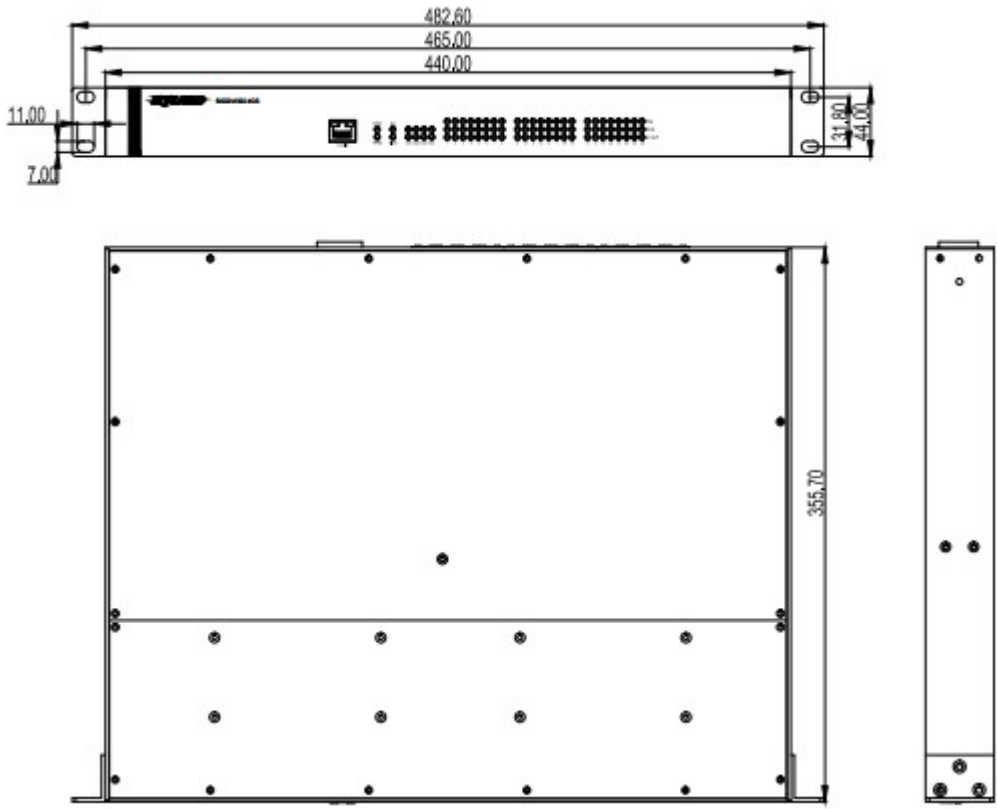IEC61000-4-4(EFT) Power Port:±2kV;Data Port:±2kV

IEC61000-4-5(Surge) Power Line to line 1KV; Line to earth 2KV

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

Machinery

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

≫ Mechanical Drawing

Ordering Information

Product Model	SICOM3024GS-Ports-PS1-PS2 (Layer 2) SICOM3024GS-L3G-Ports-PS1-PS2 (Layer 3)
Code definition	Code selection
Ports	4X24GP：4×10GBase-X SFP+ ports, 24×10/100/1000Base-T(X) RJ45 PoE ports 4GX24GP：4×1000Base-X SFP ports, 24×10/100/1000Base-T(X) RJ45 PoE ports 4X8GX16GP：4×10GBase-X SFP+ ports, 8×1000Base-X SFP ports, 16×10/100/1000Base-T(X) RJ45 PoE ports 12GX16GP：12×1000Base-X SFP ports, 16×10/100/1000Base-T(X) RJ45 PoE ports
PS1-PS2	H3-H3=220VAC(85-264VAC), redundant power inputs

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:2021-10-08 13:55:39