

SG 248GST4-SFP

L3 Managed Industrial Switch

Technical Specification

Ver 1.0



▲ Product Reference

Product Introduction

SG 248GST4-SFP switch is a high performance 10G SFP + L3 core switch. It provides Static routing and dynamic routing with advanced hardware processing capacity. The machine adopts modular design, which supports up to 4 Port 10G SFP+, and retains the expansion ability to further support 10GE when realizing gigabit convergence or access. It supports IPv4/IPv6 hardware double stack and line speed forwarding, so that customers can easily cope with the coming IPv6 era, which provides high capacity exchange capacity.

SG 248GST4-SFP switch is based on the powerful and stable processing power of VCore-III MIPS-based CPU. SG 248GST4-SFP provides up to 598Gbps of switching capacity port full speed filtering and forwarding 252Mpps. To ensure that the trunk network of large traffic data without blocking Forwarding.

SG 248GST4-SFP switch has the operating temperature of -40°C ~ 85°C, has the super firmness to adapt to all kinds of harsh environment, can also be very convenient to install in the machine room cabinet. The rack-mounted characteristics and wide temperature operation make the switch a plug and play industrial-grade device, providing a reliable and convenient solution for users to network their Ethernet devices.

Features

- Data control: support 802.3x full duplex flow control, support network storm suppression.
- Redundant network: support STP/RSTP/MSTP, support ERPS (self-healing time < 20ms).
- Support IPv6, static routing, Dynamic routing (RIP,OSPF).
- Support RIPng, OSPFv3, DHCP Server, DHCP replay, Qos.
- Multicast management: Support IGMP Snooping V1/V2/V3.
- VLAN: support IEEE 802.1q VLAN, effectively isolated broadcast domain.
- Link aggregation: support link static/dynamic aggregation, provide perfect bandwidth utilization.
- QoS: Support COS\DSCP, 4 queues, support WRR\SP scheduling mode.
- Security management: support ACL access control list, support 802.1x, support user classification management.
- Management function: support Web, SNMP management mode.
- Monitoring maintenance: support port mirroring, interface status monitoring, log management.
- Alarm function: support power supply, port, abnormal state relay output.

Specifications

Model No.	SG 248GST4-SFP
Interface	24-Port 10/100/1000Mbps SFP 8-Port 10/100/1000Mbps RJ45 (combo) 4-Port 10G SFP+ 1-Port console
Performance Specification	Bandwidth(switch capacity): 598Gbps Packet Buffer Memory:32Mbit Packet Forwarding Rate: 252Mpps MAC Address Table: 32K
Installation	Bracket mounted
Maximum Frame Size	16360bytes
Flow Control	Back pressure for half duplex, IEEE 802.3x pause frame for full duplex
Enclosure	IP50 Aluminum housing
LED Indicator	Power: Red Fiber: Link 2(Green) Ethernet: Yellow
Dual Power Input	36 to 72V DC & 110 ~ 240V/50 ~ 60Hz AC
Power Consumption	< 45watts
Surge protection	±4KV
Network Protocols	IEEE802.3 10BASE-T; IEEE802.3i 10Base-T; IEEE802.3u;100Base-TX/FX; IEEE802.3ab 1000Base-T; IEEE802.3z 1000Base-X; IEEE802.3x;
Network cables	10BASE-T: Cat3,4,5 UTP(≤100 meter) 100BASE-TX: Cat5 or later UTP(≤10meter) 1000BASE-TX: Cat6 or later UTP(≤100 meter)

Specifications

**Industry Standard
(EMC 4)**

FCC CFR47 Part 15,EN55022/CISPR22, Class A
IEC61000-4-2 (ESD): ±8kV (contact), ±12kV (air)
IEC61000-4-3 (RS): 10V/m (80~1000MHz)
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)

Certification

CE FCC Rohs compliance

MTBF

>300,000hours

Dimensions (W x D x H)

442×325×44mm

Weight

Product Weight: 4KGS
Packing Weight: 4.15KGS

Working Environment

Working temperature: -40 ~ 85°C ;
Storage temperature: -40 ~ 85°C
Relative Humidity: 5%~95 %(no condensation)

Warranty

1-year replacement with new item; 3-years for main parts.

Dimensions

