

12 Ports 1G/10G SFP+ L3 managed Fiber Switch

Overview

S5812SE is a 12 ports SFP+ 10G L3 Managed Switch. The device adopts the Realtek next-generation high-performance platform switch system, Supports flexible network management functions such as 802.1Q VLAN, port monitoring, port aggregation, and bandwidth control application. Making it easy to adapt to the current complex network application environment. Suitable for hotels campuses, factory dormitories, and enterprises to establish an economical and efficient network.



Hardware feature

Model	S5512SE
Fixed Port	12*1G/10G SFP+ Console Port
Network protocol	IEEE 802.3、IEEE 802.3z、IEEE 802.3ae Supports 12K Jumbo frame
Port Specification	1G/10G Auto
CPU	Cortex-A9 600MHz CPU
Packet Buffer	12Mbit SRAM
Jumbo frame	Up to 12KB
Bandwidth	512Gbps
Packet Forwarding	190.46Mpps
MAC Address	16K
SFP support type	Multimode dual fiber Single mode single fiber SFP to RJ45 power module Support CPR1 mode optical port interconnection
LED Indicator	PWR: Power LED Sys: system LED Port: 1G Link LED; 10G Link LED
Operating Temperature/Humidity	-10~+55°C; 5%~90% RH Non coagulation
Storage Temperature/Humidity	-40~+75°C; 5%~95% RH Non coagulation
Power	Dual AC input; MAX 45W (AC100-240V 50/60HZ MAX 0.6A)
Product size/Packing size	440mm*200mm*45mm 515mm*300mm*95mm (L*W*H)
N.W/G.W (kg)	2.1kg/2.7kg
Installation	Rack mounted
Lightning protection level	3KV 8/20us; IP30

Certificate	CE mark, commercial; CE/LVD EN60950; FCC Part 15 Class B; RoHS;
Warranty	Whole device for 1 year (Accessories not included)

Software feature:

Features	L3 Switch
Port	
Number of Fiber 10G ports	12 ports
Port Shutdown	Support
Port Speed	Support auto-negotiate, full-1000, full-100, half-100, full-10, half-10
Flow Control	support full-duplex IEEE 802.3x, half-duplex back pressure
Storm Control	Supports rate limit for broadcast, multicast, and DLF packets
Storm Constrain	Support the detection of broadcast packets, multicast packets, or unicast packets on the port, shutdown the port if the rate is over the threshold.
Port Mirror	Support
Port Rate Limit	Support port ingress and egress rate limit
Link Aggregation	Support manual link aggregation Support LACP dynamic link aggregation Supports up to 32 aggregation groups, each group up to 8 ports Support source MAC, destination MAC, source destination MAC, source IP, destination IP, source destination IP routing strategy
Port Isolate	Support
Jumbo Frame	Support up to 16KB packet
Redundant Port	Support
The DDM of fiber ports	Support
MAC	
MAC Table Capacity	16K
MAC Table Management	Support
Forwarding mode	Support IVL forwarding mode
Static MAC Address	Support
MAC Address Binding	Support
MAC Address Filtering	Support
MAC Learning Control	Control the MAC learning based on port
VLAN	
Number of VLANs	4K
802.1q-based VLAN	Support
MAC-based VLAN	Support
IP-based VLAN	Support
Protocol-based VLAN	Support
PVLAN	Support

Voice VLAN	Support
VLAN Mapping	Support 1:1 mapping
QinQ	Support basic QinQ Support flexible QinQ
Reliability	
Spanning Tree Protocol	Support STP/RSTP/MSTP
Port Loop Detection	Support
EAPS	Support RFC3619
ERPS	Support G.8032/Y.1344
LLDP	Support LLDP & LLDP-MED
UDLD	Fully compatible with CISCO's UDLD protocol
VLLP (VRRP Layer-2 Loop Protection)	Support, Only used with VRRP
L3	
ARP	Support static and dynamic ARP
Static Route	Support static route based on IPv4 and IPv6
VLAN Interface	Support 32 VLAN interfaces
RIP	Support RIP v1/v2 & IPv6 RIPng
OSPF	Support OSPFv2 & IPv6 OSPFv3
BGP	Support BGP4 & IPv6 BGP4+
Policy Route	Support
VRRP	Support
Multicast	
Static Multicast MAC Address	Support
IGMP SNOOPING	Support IGMP SNOOPING v1/v2/v3 Support IGMP Querier Support IGMP SNOOPING Filter
MVR	Support
GMRP	Support
IGMP	Support IGMP v1/v2/v3
PIM-SM	Support
ACL	
Standard IP-based ACL	Support
Extended IP based ACL	Support
MAC IP-based ACL	Support
MAC ARP-based ACL	Support
ACL Port Filtering	Support
Time-based ACL	Support
QoS	
Port Queue Number	8
Port Queue Scheduling Mode	Support WRR, RR, WDRR, SP
Port-based Classification	Support

802.1p-based Classification	Support
DSCP-based Classification	Support
ACL-based Classification	Support
QoS Policy	Support packets mapping to queue Support COS or DSCP Remarking Support rate limits of data flow Support data flow statistics Support mirroring of data flow
DHCP	
DHCP Client	Support
DHCP Snooping	Support
DHCP Relay	Support
DHCP Server	Support
DHCP option 82	Support
Management	
CLI Management	Support Console, Telnet and SSH Support multiple TELNET connections based on IPv4 and IPv6 Support multiple SSH connections based on IPv4 and IPv6
WEB Management	Support HTTP based on IPv4 and IPv6 Support HTTPS based on IPv4 and IPv6
SNMP Management	Support SNMP v1, v2c, v3 Support SNMP TRAP Support lots of standard and private MIBs Support SNMP and TRAP based on IPv4 and IPv6
User Management	Support multiple user management
TACACS+	support switch authentication via TACACS+ server remote username and password Support password encryption in PAP and CHAP mode Support TACACS+ server to authorize the switch's commands Support TACACS+ based on IPv4 and IPv6
Log Management	Support local log management Support SYSLOG
RMON	Support RMON 1, 2, 3 and 9 groups
Cluster Management	Support NDP Support NTDP Support manual and automatic joining of cluster groups Support cluster unified management
Configuration File	Support uploading and downloading configuration file Support TFTP transmission based IPv4 and IPv6
Upgrade software	Support TFTP transmission based IPv4 and IPv6

Clock Management	Support local clock management Support SNTP
Security	
Switch Management Security	Support enabling and disabling TELNET、SSH、HTTP、HTTPS and SNMP services Support TELNET、SSH、HTTP、HTTPS and SNMP services to bind to standard IP ACLs Support for limiting the number of TELNET and SSH connections
CPU Protection	The switch's own security protection prevents large data streams from attacking the switch itself.
AAA	Support 802.1x Support RADIUS Supports authentication, authorization, and accounting through RADIUS server Support port-based and MAC-based 802.1x Support 802.1x guest VLAN
IP MAC Binding	Support static configuration of IP, MAC and port binding
DHCP SNOOPING	Support dynamic ARP binding to prevent ARP spoofing Support dynamic IP, MAC and port binding Support fixed port to connect to DHCP server to prevent private connection to DHCP server
Prevent ARP Spoofing	Support manually configuring MAC ARP-based ACL rules to prevent ARP spoofing. Support the DHCP SNOOPING function. During the process of obtaining an IP address by DHCP, the switch dynamically binds ARP to the port to prevent ARP spoofing.
POE	
Supported PoE chips	MAX5980,LTC4259,LTC4271,TPS23851,TPS23861,TPS23880,TPS23881,IP808,PD69100/69108,PD69200/69208, etc.
Switch Control	Support POE powering of ports on and off
Power Control	Support setting total power
Other Advanced Features	Support POE scheduling policy and PD online query, etc.
IPv6	
IPv4/IPv6 Dual Protocol Stack	Support
IPv6 Address	Support manual address configuration and stateless address auto-configuration
IPv6 Neighbor Discovery	Support
ICMPv6	Support
IPv6 Path MTU Discovery	Support
Debugging	
PING	Support
PING6	Support
TRACEROUTE	Support

TELNET Client	Support TELNET client based IPv4 and IPv6
SSH Client	Support SSH client based IPv4 and IPv6