

SS5710-52TP

Layer3 48-port Gigabit PoE Switch

Product Overview

The SS5710-52TP switch is a layer 3 Ethernet switch, which can meet the needs of cost-effective Gigabit access (POE, High-power POE Output 760W, single port 30W) and 10 Gigabit uplink for enterprise networks and operator customers. SS5710-52TP uses a high-performance low-power network processor, provides Gigabit line-speed forwarding performance, supports green Ethernet line sleep capability, has the lowest power consumption of the same-level equipment in the industry, supports powerful QoS and ACL functions, and supports IP+MAC+ Security features such as port binding support service flow classification and packet priority marking. Support static data packet sampling, SFLOW function, support multi-port mirroring analysis function, support static and flexible QinQ function, support Ethernet OAM 802.3ag (CFM), 802.3ah (EFM), support strategy-based IPV4/6 unicast routing, support Flexible forwarding strategy

Product Interface



SS5710-52TP

- 48* 10/100/1000M Base-T RJ45 (PoE)
- 4*10G SFP+ port
- 176Gbps Switching capacity
- PoE budget: 760W (802.3af/at)
- 19" Rack-mount (440×290×44mm)

Key Features

Equipment Stability

- Support IPv4/IPv6 dual protocol stack platform based on Linux operating system
- Support multiple link redundancy and network redundancy protocols such as STP / RSTP / MSTP / ERPS / LACP

Carrier-level equipment stability

- Based on Linux operating system, support IPv4/IPv6 dual protocol stack platform
- Support multiple link redundancy and network redundancy protocols such as STP/RSTP/MSTP/ERPS/LACP
- Support PTP

Perfect safety mechanism

- Support ACL security filtering mechanism, which can provide security control functions based on MAC, IP, L4 port
- Support ARP attack automatic protection and user blocking functions
- Support DHCP attack automatic protection based on Mac Address and user blocking functions
- Support DDOS and virus attack protection
- Support DHCP-snooping/IP-source-Guard/802.1X and other security features
- Support link protection functions such as BFD, FlexLink, LACP and ERPP
- Support remote loop detection function
- Support CFM、EFM
- Support remote user authentication based on Tacacs+, Radius, and Local user authentication

Powerful QoS capabilities

- Support port speed and flow speed limit function
- Support classification based on service flow and Qos flow control function
- Support queue scheduling algorithms such as SP/WRR/SP+WRR
- Support port-based and service flow-based mirroring functions

Enhanced multi-service capabilities

- Support DHCP Server and DHCP Relay
- Support L2-Tunnel
- Support Ethernet OAM protocol such as CFM、EFM

Rich routing protocol

- Support static route
- Support dynamic route such as RIP, OSPF, BGP, ISIS
- Support IPV4/IPV6 dual protocol stack, Support RIPng、OSPFv3

Simple and easy-to-use network management function

- Support CLI based on RS232 serial port, Telnet and SSHv2
- Support WEB-based configure operation management, support SNMP V1/V2/V3
- Support remote upgrade or equipment through FTP and TFTP

Hardware Specifications

Attributes	SS5710-52TP
Port	48*10/100/1000M Base-T RJ45 (PoE) 4*1000M Base-X SFP/10GE SFP+
Chip Solution	Realtek 9311
Exchange Capacity	176Gbps
Packet Forwarding Rate	130.944Mbps
MAC	32K
Multicast	4K
Route	12K
Memory and Storage	Memory: 512MB, storage: 32MB
Power	AC: 100 ~ 240V 50/60Hz;
PoE Port	1~48 port (IEEE 802.3af/at)
PoE Budget	760W
Power Consumption	≤800W
Weight	≤7kg
Dimensions (W*H* D)	440×290×44
Environment	Working Temperature: -10℃ ~ 55℃ Storage temperature: -40℃ ~ 70℃

Software Specifications

Attributes	SS5710-52TP
VLAN	Support 4K VLAN Support VLAN based on port, MAC and protocol Support dual Tag VLAN, port-based Static QinQ and Flexible QinQ Access/Trunk/Hybrid VLAN Swap
Ethernet	Ethernet interface operating modes Ethernet interface operating rates Jumbo Frame Port enable/disable Flow-control tx/rx Port based storm-control Unknown-unicast/unknown-multicast/broadcast storm-control Port-isolate
MAC	Support static MAC address setting Support black hole MAC address filtering Support port MAC address limit Automatic learning and aging of MAC addresses
ARP	Static and dynamic ARP entries Aging of ARP entries Gratuitous ARP ARP-Proxy
Port Control	Support two-way bandwidth control Support port storm suppression Support 9K Jumbo ultra-long frame forwarding
Port Aggregation	Support static link aggregation Support dynamic LACP Each aggregation group supports a maximum of 8 ports LAG load balance (SIP/DIP/SMAC/DMAC)
Mirroring	Supports multi-port mirroring analysis Service flow-based image analysis

ACL	Support standard and extended ACL Support ACL policy based on time period Provide MAC, IP, L4 port and port level security control functions
QoS	Traffic classification based on COS/DSCP (simple classification) Traffic classification based on ACL (complex classification) Traffic classification based on inner header of the tunnel packets Queue scheduling Remark the priority fields (COS/DSCP) of the packet based on ACL Flow redirection Flow mirror Traffic policing based on direction(in/out) of Port Traffic policing based on direction(in/out) of VLAN Traffic policing based on direction(in/out) of flow Traffic policing based on direction(in/out) of aggregated flow Queue based traffic shaping Port based traffic shaping SP (Strict Priority) scheduling WRR (Weighted Round Robin) scheduling SP + WRR mixed scheduling IPv4-v6 QoS(QCEs)
Safety	Support user hierarchical management and password protection Support IEEE 802.1X authentication Support Radius & TACACS+ authentication Support MAC address learning limit, support black hole MAC function Support port isolation Support broadcast message rate suppression Support IP Source Guard Support ARP flood suppression and ARP spoofing protection
Layer 3	Support ARP learning and aging Support IPv4/IPv6 static route Support dynamic route RIP/OSPF/BGP/ISIS Support IPv4/IPv6 dual-stack platform Support VRRP、CLI、Telnet、WEB、SNMP V1/V2/V3、SSHv2 mode
Terminal Services	Configurations through CLI Console Terminal service

Maintenance	- Per-module Debug features - ICMP Debug - CPU usage display and alarm - Memory usage display and alarm - Device temperature、PSU、FAN、 status display and alarm - User operation logs - Management of logs, alarms, and debugging information - VCT (Virtual Cable Test) - Detailed Diagnostic-information collection - Manual /Schedule reboot - Reboot Information logging - Ping - IPv6 Ping - Traceroute - Port/Flow/Remote mirror - Multi-destination mirror (m:n) - To CPU/From CPU packets statistics - Time configuration - Timezone
System Security	- SSHv1/v2 - RADIUS - TACACS+ - Authentication - Accounting - Port based dot1x - MAC based dot1x - MAC/IP ACL - Basic Mode ACL - Port/VLAN/L4-Port ACL - Time Range - IP Source Guard - Limitation on MAC address learning on interface - Rate limit - CPU Traffic Limit - CLI/WEB/SNMP/Telnet/SSH filtering

Spanning-Tree	Rapid Spanning-Tree Protocol Multi-instance Spanning-Tree Protocol
Network Management	DHCP Server DHCP Relay DHCP Snooping DHCP Option60 DHCP Option82 SNTP (Simple Network Time Protocol) LLDP
Configuration Management	Inband management interface and configuration Outband management interface and configuration Privileged user priority and privileged commands Network management based on SNMPv1/v2c/v3 Public and private MIB Public and private Trap Configuration and management based on WEB Restore factory default configuration
File system	Upload and download files through FTP or TFTP Upload and download files through Xmodem
System Management	Support FTP, TFTP file upload and download Support SNTP Support system work log Support LLDP neighbor device discovery protocol Support 802.3ah Ethernet OAM Support RFC1213 SNMP network management Support Ping and Traceroute Supports configuration management based on WEB pages Support the whole machine power failure alarm function
Upgrade	Upgrade with the local image file Upgrade with the remote TFTP server Online upgrade Uboot

Purchase Info

Product name	Product description
SS5710-52TP	48*10/100/1000M RJ45, 4*1GE/10GE SFP+,IEEE 802.3af/at, PoE budget: 760W