

SS5720 Series

Layer3 2.5G Managed Switch

Product Overview

The SS5720 series switch is a layer 3 Ethernet switch, which can meet the needs of cost-effective 2.5G access and 10 Gigabit uplink for enterprise networks and operator customers. SS5720 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



SS5720-24M6X

- · 24* 2.5G Base-T RJ45 port
- · 6*10G SFP+ port
- · 240Gbps Switching capacity
- AC: 100~240V 47/63Hz
- · 19" Rack-mount (440×260×44mm)



SS5720-24MP6X

- 24* 2.5G Base-T RJ45(PoE) port
- · 6*10G SFP+ port
- 240Gbps Switching capacity
- · PoE budget: 370W (802.3af/at)
- 19" Rack-mount (440×260×44mm)

V2.0-2024



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 ERRP
- 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	SS5720-24M6X	SS5720-24MP6X
Port	24*2.5G Base-T,	24*2.5G Base-T POE,
	6*1G Base-X SFP/10GE SFP+	6*1G Base-X SFP/10GE SFP+
Chip Solution	Realtek 9313	Realtek 9313
Exchange Capacity	240Gbps	240Gbps
Packet Forwarding Rate	178.56Mpps	178.56Mpps
MAC	32K	32K
Multicast	4K	4K
Route	12k	12k
DRAM/Flash	DRAM: 250	6MB; Flash:32MB
Power	AC: 100~240V 47/63Hz;	
	DC: 40V~60V;	
Power Consumption	Idle ≤18W	ldle ≤30W
	Full load ≤39W	Full load ≤450W
Weight	3.5kg	4.2kg
Dimensions	440X260X44(W * H * D)	440X260X44(W * H * D)
Environment	Working Temp	erature: -10°C ~ 55°C
Temperature	Storge tempe	rature: -40°C ~ 70°C



Software Specifications

Attributes	SS5720-24M6X/24MP6X
VLAN	Support 4K VLAN
	Support VLAN based on port, MAC and protocol
	Support dual Tag VLAN, port-based Static QinQ and Fiexible QinQ
	Access/Trunk/Hybrid
	VLAN Swap
	Ethernet interface operating modes
	Ethernet interface operating rates
	Jumbo Frame
Ethernet	Port enable/disable
Ethernet	Flow-control tx/rx
	Port based storm-control
	Unknow-unicast/unknow-multicast/broadcast storm-control
	Port-isolate
	Support static MAC address setting
MAC	Support black hole MAC address filtering
MAC	Support port MAC address limit
	Automatic learning and aging of MAC addresses
	Static and dynamic ARP entries
ARP	Aging of ARP entries
AKP	Gratuitous ARP
	ARP-Proxy
	Support two-way bandwidth control
Port Control	Support port storm suppression
	Support 9K Jumbo ultra-long frame forwarding
	Support static link aggregation
Port Aggregation	Support dynamic LACP
	Each aggregation group supports a maximum of 8 ports
	LAG load balance (SIP/DIP/SMAC/DMAC)
Naiwawin	Supports multi-port mirroring analysis
Mirroring	Service flow-based image analysis



	Support standard and extended ACL
ACL	Support ACL policy based on time period
	Provide MAC, IP, L4 port and port level security control functions
	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
QoS	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)
	Support user hierarchical management and password protection
	Support IEEE 802.1X authentication
	Support Radius & TACACS+ authentication
Safety	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
	Support ARP learning and aging
	Support IPv4/IPv6 static route
Layer 3	Support dynamic route RIP/OSPF/BGP/ISIS
	Support IPv4/IPv6 dual-stack platform
	Support VRRP、CLI、Telnet、WEB、SNMP V1/V2/V3、SSHv2 mode
	Configurations through CLI
Terminal Services	Console Terminal service
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	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
Maintenance	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
	SSHv1/v2
	RADIUS
	TACACS+
	Authentication
	Accounting
	Port based dot1x
	MAC based dot1x
Sustana Sasunitus	MAC/IP ACL
System Security	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
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Rapid Spanning-Tree Protocol Multi-instance Spanning-Tree Protocol Multi-instance Spanning-Tree Protocol DHCP Server DHCP Relay DHCP Shooping DHCP Option60 DHCP Option82 SNTP (Simple Network Time Protocol) LLDP 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 Xmodem Support SNTP Support SNTP Support System work log Support ILDP neighbor device discovery protocol System Management Support B02.3ah Ethernet OAM Support Ping and Traceroute Support the whole machine power failure alarm function Upgrade with the local image file Upgrade with the remote TFTP server Online upgrade Uboot		
Network Management DHCP Server DHCP Relay DHCP Option60 DHCP Option60 DHCP Option82 SNTP (Simple Network Time Protocol) LLDP 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 Upload and download files through FTP or TFTP Upload and download files through Xmodem Support FTP, TFTP file upload and download Support SNTP Support system work log Support LLDP neighbor device discovery protocol System Management Support RFC1213 SNMP network management Support Ping and Traceroute Support ping and Traceroute Support system work log management based on WEB pages Support the whole machine power failure alarm function Upgrade Upgrade with the local image file Upgrade vith the remote TFTP server	Spanning-Tree	Rapid Spanning-Tree Protocol
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Supports configuration management based on WEB pages Support the whole machine power failure alarm function Upgrade with the local image file Upgrade with the remote TFTP server		Support RFC1213 SNMP network management
Support the whole machine power failure alarm function Upgrade with the local image file Upgrade with the remote TFTP server		Support Ping and Traceroute
Upgrade with the local image file Upgrade Upgrade with the remote TFTP server		Supports configuration management based on WEB pages
Upgrade with the remote TFTP server		Support the whole machine power failure alarm function
	Upgrade	Upgrade with the local image file
Online upgrade Uboot		Upgrade with the remote TFTP server
		Online upgrade Uboot



Ordering Information

Product name	Product description
SS5720-24M6X	24*2.5G Base-T, 6*1000M Base-X SFP/10GE SFP+, Single power supply
SS5720-24MP6X	24*2.5G POE Base-T,6*1000M Base-X SFP/10GE SFP+, Single Power supply