


S5750M-18X-P-SI L3 10G(mGig) PoE Routing Switch

Product Overview

S5750M-18X-P-SI full 10G(mGig) routing PoE switch provides high availability, scalability, security, energy efficiency, and ease of operation with rich features such as VSF(Virtualized Switching Framework), IEEE 802.3at/ IEEE 802.3bt and redundant power supplies. It is ideal for WiFi6 AP access scenes in campus networks.

Appearance	Description
 S5750M-18X-P-SI	<ul style="list-style-type: none">● 12 x 1G/2.5G/5G/10GBaseT + 6 x 10G/25GE(SFP28) ports● 1 console, 1 USB, 1 reset, 1 RJ45 Management port● PoE / PoE+ /PoE++ (60w) up to 370w● 1 fixed AC & 48VDC RPS● Forwarding performance: 405Mpps● Switching capacity: 540Gbps

Key Features and Highlights

Ready for Wi-Fi 6

S5750M-18X-P-SI has 12 * 1G/2.5G/5G/10Gbps ports and also supports Power over Ethernet (PoE), including PoE+ and PoE++(60W). Certainly it is good for 802.11ac and 802.11ax wireless LAN applications and helps you avoid having to run multiple cables between switches and access points and let your networks welcome next-generation traffic speeds and data rates.

Carrier-class reliability

S5750M-18X-P-SI provides 12 * 10G(mGig) ports and also 6 * 10G/25G uplink ports which could be designed to offer redundant uplinks with various ring protection applications, effectively raised the expansibility and performance of the network.

All the ports on S5750M-18X-P-SI provide 8KV-10KV lightning protection capability which greatly reduces the damage rate of equipment from lightning.

G.8032 provides sub-50ms protection and recovery switching for Ethernet traffic in a carrier ring topology.

VSF (Virtual Switch Framework)

Virtual Switch Framework can virtualize multiple DCN switches into one logical device, achieving the sharing of information and data tables between different switches. The performance and ports density of virtualized devices is greatly enlarged by times under VSF. VSF also simplifies management work for the network administrator and provides more reliability.

Rich L3 Features

S5750M-18X-P-SI delivers high-performance, hardware-based IP routing, RIP, OSPF, and BGP provide dynamic routing by exchanging routing information

with other Layer 3 switches and routers. With S5750M-18X-P-SI, customers could easily achieve Policy-based Route (PBR), which is important when they need a multi exit application.

Strong Multicast

S5750M-18X-P-SI supports abundant multicast features. In Layer 2, such as IGMPv1/v2/v3 snooping and fast leave. L3 multicast protocols such as IGMPv1/v2/v3, PIM-DM, PIM-SM, PIM-SSM, and even MSDP. With Multicast VLAN Register (MVR), multicast receiver/sender control and illegal multicast source detect functions; S5750M-18X-P-SI provides a great application experience for the customer.

Comprehensive QoS

With 8 queues per port, S5750M-18X-P-SI enable differentiated management of up to 8 traffic types. The traffic is prioritized according to IEEE802.1p, DSCP, IP precedence, and TCP/UDP port number, giving optimal performance to real-time applications such as voice and video.

S5750M-18X-P-SI also supports Bi-directional rate-limiting, per port or traffic class preserves network bandwidth, and allows full control of network resources.

Abundant IPv6 Support

S5750M-18X-P-SI supports IPv6 switching and routing based on hardware for maximum performance. With increased network devices growing the need for larger addressing and higher security become critical, S5750M-18X-P-SI will be the right product to meet this requirement.

Specifications

Item	S5750M-18X-P-SI
Physical port	12 x 1G/2.5G/5G/10GBaseT + 6 x 10G/25G(SFP28) Auto MIDX
Management port	100/1000M BaseT RJ45 Ethernet Management port
	Console port (RJ45)
	Reset port
	USB2.0 interface
Performance	
Switching Capacity	540Gbps
Forwarding Rate	405Mpps
MAC Address	32k
Routing Table	16k
L3 Interface	Max 1K
Physical	
Dimension (W*H*D)	440mm*44mm*320mm
Relative Humidity	5%~95% non-condensing
Temperature	Working 0°C~50°C, storage -40°C~75°C
Power Supply	Fixed AC + 48VDC
Power Consumption	440w (with PoE)
PoE	IEEE 802.3af (15.4W) IEEE 802.3at (30W) IEEE 802.3bt (60W) Total PoE power: 370W
Main Features	
L1, L2 Features	IEEE802.3(10Base-T), IEEE802.3u(100Base-TX), IEEE802.3z(1000BASE-X), IEEE802.3ab(1000Base-T), IEEE 802.3bz(2.5GBase-T), IEEE802.3ae(10GBase), IEEE802.3x, IEEE802.3ak(10GBASE-CX4)
	Port loopback detection LLDP and LLDP-MED UDLD IEEE 802.3ad LACP, max 128 group trunks with max 8 ports for each trunk LACP load balance ERPS (G.8032)
	N:1 Port Mirroring RSPAN
	IEEE802.1d(STP) IEEE802.1w(RSTP) IEEE802.1s(MSTP) Root Guard BPDU Guard BPDU Tunnel
	IEEE 802.1Q, 4096 VLAN MAC VLAN, Voice VLAN, PVLAN, Protocol VLAN, Multicast VLAN QinQ, Selective QinQ, Flexible QinQ GVRP N:1 VLAN Translation Broadcast / Multicast / Unicast Storm Control

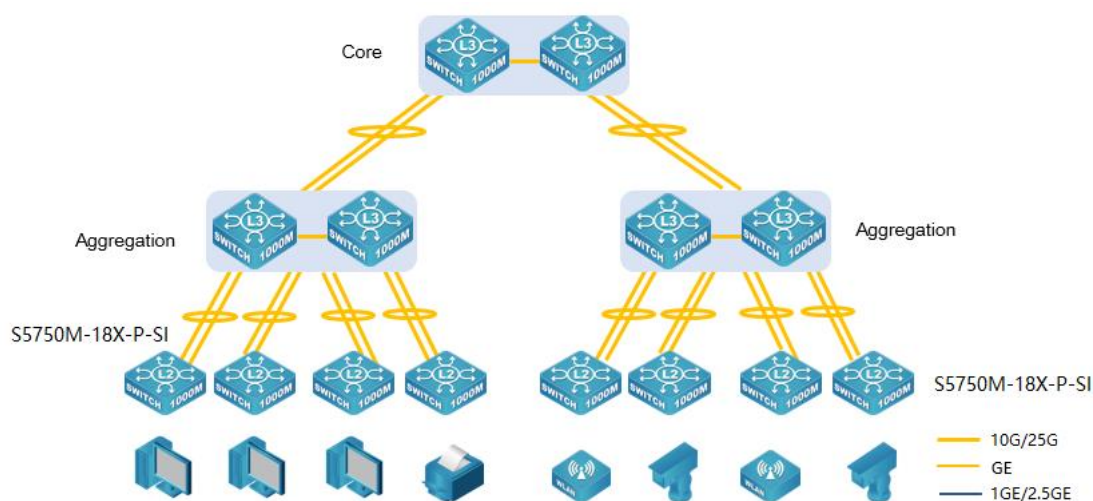
	IGMP v1/v2/v3 Snooping and L2 Query ND Snooping MLDv1/v2 Snooping Port Security Flow Control: HOL, IEEE802.3x Bandwidth Control
L3 Features	Static Routing, RIPv1/v2, OSPFv2, BGP4 OSPFv3, BGP4+ OSPF multiple processes Policy-based routing (PBR) for IPv4 and IPv6 VRRP URPF, ECMP BFD IGMP v1/v2/v3, IGMP Proxy, DVMRP, PIM-DM, PIM-SM, PIM-SSM, Anycast RP, MSDP Static Multicast Route Multicast Receive Control Illegal Multicast Source Detect ARP Guard, Local ARP proxy, Proxy ARP, ARP Binding, Gratuitous ARP, ARP Limit Anti ARP Cheat, Anti ARP Scan DNS Client, DNS Relay ICMPv6, ND, DNSv6 IPv6 Policy-based Routing (PBR) IPv6 VRRPv3, IPv6 URPF, IPv6 RA RIPng, OSPFv3, BGP4+ MLD Snooping, IPv6 Multicast VLAN MLDv1/v2, PIM-SM/DM for IPv6, IPv6 Anycast RP, IPv6 ACL, IPv6 QoS
QoS	8 Queues SP, WRR, SWRR, WDRR, SWDRR WRED Traffic Classification Based on 802.1p COS, ToS, DiffServ DSCP, ACL, port number Traffic Policing PRI Mark/Remark
ACL	IP ACL, MAC ACL, IP-MAC ACL Standard and Expanded ACL Based on source/destination IP or MAC, IP Protocol, TCP/UDP port, DSCP, ToS, IP Precedence), VLAN, Tag/Untag, CoS Redirect and Statistics Rules can be configured to port, VLAN Time Ranged ACL
Security	IEEE 802.1x AAA Port, MAC-based authentication Accounting based on time length and traffic Guest VLAN and auto VLAN RADIUS for IPv4 and IPv6 TACACS+ for IPv4 and IPv6 MAB
DHCPv4/v6	DHCP Server/Client for IPv4/IPv6 DHCP Relay/Option 82 DHCP Snooping/Option 82
Traffic Monitor	sFlow Traffic Analysis

Security Network Management	CLI, WEB, Telnet, SNMPv1/v2c/v3 through IPv4 and IPv6 Syslog and external Syslog Server HTTP SSL SNMP MIB, SNMP TRAP FTP/TFTP SNTTP/NTP RMOM 1,2,3,9 Authentication by Radius/TACACS SSH v1/v2 Dual firmware images/ Configuration files 802.3ah OAM, 802.1ag OAM
Data Center Features	VSF (Virtual Switch Framework)

Application

10G(mGig) access with 25G uplink in a campus network

Ideal switch to support access points, cameras. IEEE 802.3bt ready for Wi-Fi 6



Order Information

Product	Description
S5750M-18X-P-SI	Full 2.5G PoE Ethernet Routing Switch, 12 x 1G/2.5G/5G/10G BaseT + 6 x 10G/25G(SFP28) ports, 1 fixed AC power supply & 48VDC RPS, up to 370W for PoE