


## S5750E-26X-SI L3- 40G Fiber Routing Switch

### Product Overview

S5750E-26X-SI switch is new generation of intelligent aggregation and access switches designed by DCN for carrier and MAN networks. S5750E-26X-SI provides 24 10GbE (SFP+) and 2 40GbE(QSFP) physical ports and redundant power supplies, designed for 10G access scenario and general network 10G convergence scenario with telecom grade design features of high reliability, and redundancy.

Appearance	Description
 <p data-bbox="368 1310 555 1339">S5750E-26X-SI</p>	<ul data-bbox="810 1182 1449 1339" style="list-style-type: none"><li>● 24x10GbE (SFP+) + 2x40GbE(QSFP)</li><li>● 1 console, 1 USB, 1 reset, 1 RJ45 management port</li><li>● AC + 48VDC power supply</li><li>● Switching capacity: 640Gbps</li><li>● Forwarding rate: 480Mpps</li></ul>

## Key Features and highlights

### Performance and Scalability

The 10 Gigabit Ethernet connectivity of S5750E-26X-SI is accomplished via a hot-pluggable 10 Gigabit SFP+ transceiver which supports distance up to 300 meters over multimode fiber and 10 to 40km over single-mode fiber (The distance depends on the optical module chosen). S5750E-26X-SI supports built-in redundant AC and DC power supplies for different environment applications.

### Easy high-reliability network

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

**G.8032** provides sub-50ms protection and recovery switching for Ethernet traffic in a carrier ring topology. S5750E-26X-SI supports G.8032 v2 and can be deployed in a variety of complex network topologies including single ring, tangent ring, intersecting rings, double rings, and other home networking.

**Multi-process MSTP.** When a new access ring can be implemented by creating a new process of MSTP, the new ring does not affect the existing traffic. And each process may run different spanning tree protocol.

**DCN EMVTE** technology (Enhanced Multi-VLAN subnet Traffic Engineering) is a multi-link backup and load balancing solution based on multiple VLAN subnets for the dual-homing network. It can achieve faster switching and convergence of the uplink through the ULPP (Uplink Protection Protocol) and ULSM (Uplink State Monitor) protocol so that network

performance is guaranteed.

### Enhanced Security

IEEE **802.1X** port-based access control ensures all users are authorized before being granted access to the network. User authentication is carried out using any standard-based RADIUS server.

Ingress/Egress Access Control Lists (ACLs) can be used to restrict access to sensitive network resources by denying packets based on L2/L3/L4 headers information. And for some services that are based on time, the product can support time-based ACL to match the requirement.

S5750E-26X-SI support **DHCP snooping**, which prevents DHCP attacks and illegal DHCP SERVER by setting trust ports and untrusted ports. With DHCP Snooping binding and option82 enabled, it can combine modules like dot1x and ARP, or implement user-access-control independently.

S5750E-26X-SI supports many more L2 security features such as **ARP guard**, **Anti-ARP scanning**, and other ARP and **MAC Security** technology to protect network security and reliability.

### Abundant Multicast Features

S5750E-26X-SI also supports **MVR** (Multicast VLAN Register), selectively allows traffic to cross between different VLANs for bandwidth and security reasons. With the MVR Trunk function, which could associate multicast VLAN to trunk port, S5750E-26X-SI combines the VLAN data into the same link, saving lots of resources for users.

S5750E-26X-SI could prevent multicast traffic from flooding via IGMP Snooping, while multicast traffic is only forwarded to ports associated with multicast devices.

## Specifications

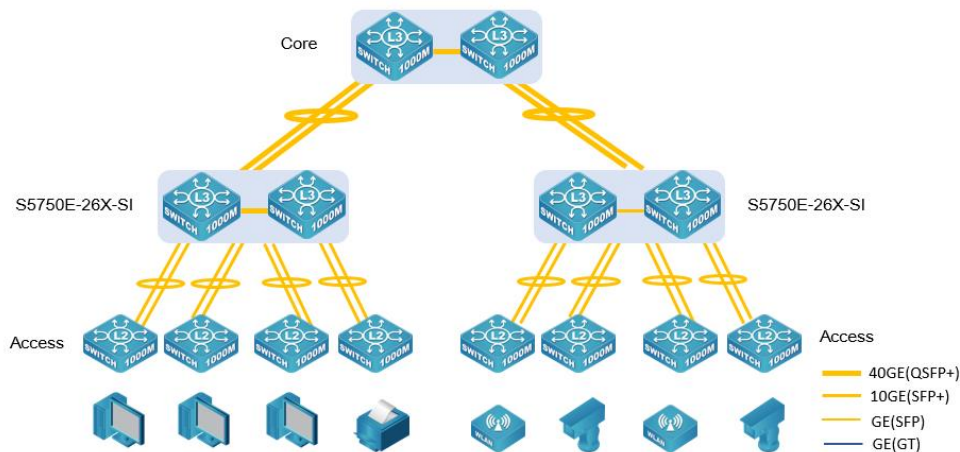
Item	S5750E-26X-SI
<b>Management Port</b>	1 Console, 1 USB, 1 RJ45 management port
<b>Ports</b>	24x10GbE (SFP+) + 2x40GbE (QSFP) (each 40GbE(QSFP) can be divided 4 10GbE (SFP+)) Auto-MIDX
<b>Performance</b>	
<b>Switching Capacity</b>	640Gbps
<b>Forwarding Rate</b>	480Mpps
<b>MAC ADDRESS</b>	32K
<b>Jumbo Frame</b>	12K
<b>ACL Table</b>	3K (ingress) + 1K (egress)

Item		S5750E-26X-SI
<b>Queues per port</b>		8
<b>VLAN TABLE</b>		4K
<b>Physical</b>		
<b>Dimension(W×H×D)</b>		440mm x 43.6mm x 318mm
<b>Power Input</b>		AC: 100~240VAC, 50~60Hz DC: Input -60V ~ -40V
<b>Power Consumption</b>		<70W
<b>Temperature</b>		Working 0°C~50°C, Storage -40°C~70°C
<b>Relative Humidity</b>		10%~90%, non-condensing
<b>EMC safety</b>		CE, RoHS
<b>Main Features</b>		
<b>Forwarding</b>		Storage and Forwarding
<b>VLAN</b>		Port-based VLAN IEEE802.1Q private VLAN Protocol VLAN Voice VLAN MAC VLAN Normal QinQ, Flexible QinQ VLAN Translation
<b>DHCP</b>		IPv4/IPv6 DHCP Client, IPv4/IPv6 DHCP Relay Option 82 IPv4/IPv6 DHCP Snooping, IPv4/IPv6 DHCP Server
<b>Reliability</b>	<b>Spanning Tree</b>	802.1D STP, 802.1W RSTP, 802.1S MSTP Root Guard, BPDU Guard, BPDU Forwarding Multi-Process MSTP
	<b>LACP</b>	128 groups per device/8 ports per group Load balance
	<b>L2 Ring Protection</b>	MRPP ERPS (G.8032) Loopback Detection Fast Link
	<b>Multi-link Backup</b>	Enhanced Multi-VLAN subnet Traffic Engineering (ULPP+ULSM)
	<b>VSF</b>	Virtual Switch Framework
<b>Security</b>		IP ACL, MAC ACL, MAC-IP ACL, User-Defined ACL Time Range ACL ACL rules can be configured to port, VLAN Storm Control based on packets and bytes Port Security, MAC Limit based on VLAN and Port Anti-ARP-Spoofing, Anti-ARP-Scan, ARP Binding ND Snooping DAI IEEE 802.1x Authentication, Authorization, Accounting Radius, TACACS+
<b>Multicast</b>	IGMP v1/v2/v3 snooping, IGMP Fast leave	
	MVR	
	MLD v1/v2 snooping	
	IPv4/IPv6 DCSCM(D)	

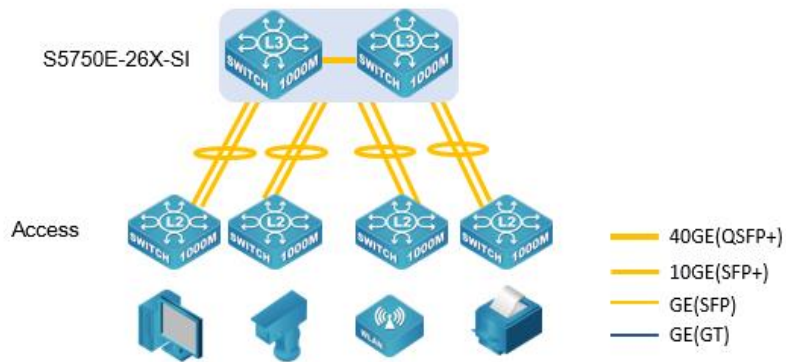
Item	S5750E-26X-SI
QoS	8 Queues Per Port Bandwidth Control Flow Redirect Classification based on ACL, VLAN ID, COS, TOS, DSCP, IPv6 Flow Label Policing Based on Port and VLAN Single Rate Three Colors, Dual Rates Three Colors for Policing Remark DSCP, COS/802.1p, Precedence, TOS SP, WRR, SWRR, WDRR for Scheduling
Maintenance and Operation Management	XModem/TFTP/FTP CLI, Telnet, Console Web/SSL (IPv4/IPv6) SSH (IPv4/IPv6) SNMPv1/v2c/v3 SNMP Trap Public & Private MIB interface RMON 1,2,3,9 Ping, Trace Route Radius Authentication Syslog (IPv4/IPv6) SNTP/NTP (IPv4/IPv6) Dual IMG, Multiple Configuration Files Port Mirror, CPU Mirror, RSPAN sFlow OAM EFM; OAM CFM Dying GASP DDM ULDP(like Cisco UDLD) LLDP/LLDP MED
Green Energy	Auto Fan Speed Control, Temperature Alarm LED Shut-off

## Applications

S5750E-26X-SI is deployed as full 10G aggregation switches in campus network



S5750E-26X-SI is deployed as full 10G Core switches in SMB



## Order Information

Product	Description
<b>S5750E-26X-SI</b>	L3- 40G Ethernet Switch with 24 10GbE (SFP+) ports ,2* 40GbE (QSFP) ,100-240VAC + -48VDC Power Input