S5720-EI Series Enhanced Gigabit Switches

Huawei S5720-EI series switches provide flexible all-gigabit access and enhanced 10GE uplink port scalability. They are widely used as access/aggregation switches in enterprise campus networks or gigabit access switches in data centers.

Introduction

The S5720-EI series enhanced Gigabit Ethernet switches are switches that provide flexible GE access ports (including optical, electrical, and combo ports) and 10GE uplink ports. Built on next-generation high-performance processors and Huawei Versatile Routing Platform (VRP), the S5720-EI provides larger table sizes and higher hardware processing capabilities than equivalent switches. Besides, it provides comprehensive service processing capabilities, enhanced security control, and mature IPv6 features, and supports MACsec, intelligent stack (iStack), flexible Ethernet networking, and easy operations and maintenance (O&M). With all these advantages, the S5720-EI is widely used for access/aggregation in enterprise campus networks or gigabit access in data center networks.

Product Overview

Models and Appearances

The following models are available in the S5720-EI series.

Models and appearances of the S5720-EI series

Appearance	Description
S5720-32P-EI-AC	24 10/100/1000 Ethernet ports, 4 100/1000 SFP ports, 4GE SFP ports, 2 QSFP+ dedicated stack ports - AC power supply, supporting Redundant Power Supply (RPS), power socket on the front panel - Forwarding performance: 48 Mpps - Switching capacity: 598 Gbit/s
S5720-32X-EI-AC	24 10/100/1000 Ethernet ports, 4 100/1000 SFP ports, 4 10GE SFP+ ports, 2 QSFP+ dedicated stack ports - AC power supply, supporting RPS, power socket on the front panel - Forwarding performance: 102 Mpps - Switching capacity: 598 Gbit/s
S5720-32X-EI-24S-AC S5720-32X-EI-24S-DC	24 Gig SFP ports, 4 10/100/1000 Ethernet ports, 4 10GE SFP+ ports, 2 QSFP+ dedicated stack ports - AC or DC power supply, supporting RPS, power socket on the front panel - Forwarding performance: 102 Mpps

Appearance	Description
	• Switching capacity: 598 Gbit/s
S5720-36C-EI-28S-AC S5720-36C-EI-28S-DC	• 28 Gig SFP ports (4 of which are dual-purpose 10/100/1000 ports), 4 10GE SFP+ ports • One extended slot • Double hot swappable AC or DC power supplies, one AC or DC power supply equipped by default • Forwarding performance: 132 Mpps • Switching capacity: 598 Gbit/s
S5720-36C-EI-AC	• 28 10/100/1000 Ethernet ports (4 of which are dual-purpose 10/100/1000 or SFP ports), 4 10GE SFP+ ports • One extended slot • Double hot swappable AC or DC power supplies, one AC power supply equipped by default • Forwarding performance: 132 Mpps • Switching capacity: 598 Gbit/s
S5720-36C-PWR-EI-AC	• 28 10/100/1000 Ethernet PoE+ ports (4 of which are dual-purpose 10/100/1000 or SFP ports), 4 10GE SFP+ ports • One extended slot • PoE+ • Double hot swappable AC or DC power supplies, one AC power supply equipped by default • Forwarding performance: 132 Mpps • Switching capacity: 598 Gbit/s
S5720-36PC-EI-AC	• 28 10/100/1000 Ethernet ports (4 of which are dual-purpose 10/100/1000 or SFP ports), 4 GE SFP ports • One extended slot • Double hot swappable AC or DC power supplies, one AC power supply equipped by default • Forwarding performance: 78 Mpps • Switching capacity: 598 Gbit/s
S5720-50X-EI-AC S5720-50X-EI-DC	• 46 10/100/1000 Ethernet ports, 4 10GE SFP+ ports, 2 QSFP+ dedicated stack ports • AC or DC power supply, supporting RPS, power socket on the front panel • Forwarding performance: 129 Mpps • Switching capacity: 598 Gbit/s
S5720-50X-EI-46S-AC S5720-50X-EI-46S-DC	• 46 Gig SFP ports, 4 10GE SFP+ ports, 2 QSFP+ dedicated stack ports • AC or DC power supply, supporting RPS, power socket on the front panel • Forwarding performance: 129 Mpps • Switching capacity: 598 Gbit/s
S5720-52X-EI-AC	• 48 10/100/1000 Ethernet ports, 4 10GE SFP+ ports, 2 QSFP+ dedicated stack ports • AC power supply, supporting RPS • Forwarding performance: 132 Mpps • Switching capacity: 598 Gbit/s

Appearance	Description
S5720-52P-EI-AC	• 48 10/100/1000 Ethernet ports, 4 GE SFP ports, 2 QSFP+ dedicated stack ports • AC power supply, supporting RPS • Forwarding performance: 78 Mpps • Switching capacity: 598 Gbit/s
S5720-56C-EI-48S-AC S5720-56C-EI-48S-DC	• 48 Gig SFP ports, 4 10GE SFP+ ports • One extended slot • Double hot swappable AC or DC power supplies, one AC or DC power supply equipped by default • Forwarding performance: 162 Mpps • Switching capacity: 598 Gbit/s
S5720-56C-EI-AC S5720-56C-EI-DC	• 48 10/100/1000 Ethernet ports, 4 10GE SFP+ ports • One extended slot • Double hot swappable AC or DC power supplies, one AC or DC power supply equipped by default • Forwarding performance: 162 Mpps • Switching capacity: 598 Gbit/s
S5720-56C-PWR-EI-AC S5720-56C-PWR-EI-AC1 S5720-56C-PWR-EI-DC	• 48 10/100/1000 Ethernet PoE+ ports, 4 10GE SFP+ ports • One extended slot • PoE+ • Double hot swappable AC or DC power supplies, one AC or DC power supply equipped by default • Forwarding performance: 162 Mpps • Switching capacity: 598 Gbit/s
S5720-56PC-EI-AC	• 48 10/100/1000 Ethernet ports, 4 GE SFP ports • One extended slot • Double hot swappable AC or DC power supplies, one AC power supply equipped by default • Forwarding performance: 108 Mpps • Switching capacity: 598 Gbit/s

Card Types

The S5720-EI (C series and PC series) provides one extended slot for ES5D21X02S01 (2-port 10GE SFP+ rear interface card) for upstream connections, or ES5D21VST000 (dedicated stack card with two QSFP+ ports) for stack connection.

ES5D21X02S01 (2-Port 10 Gig SFP+ Rear Interface Card, Used in S5720-EI Series)

The ES5D21X02S01 provides two 10GE SFP+ optical ports for data access and line-rate switching. It can be installed in a rear card slot of the switch models listed in the following table.

Technical specifications of the ES5D21X02S01

Card Model	Technical Specifications	Applied Switch Model

	• Physical specifications:
	   – Dimensions (W x D x H): 100 mm x 208 mm x 40 mm (3.94 in. x 8.19 in. x 1.57 in.)
	   – Weight: 0.78 kg (1.72 lb)
	   – Maximum power consumption: 8 W
		S5720-C-EI and S5720-PC-EI series

Card Model	Technical Specifications	Applied Switch Model

ES5D21X02S01	• Environment parameters:
	  − Operating temperature: 0°C to 45°C (32°F to 113°F)
	  − Relative humidity: 5% RH to 95% RH
	  − Storage temperature: -40°C to +70°C (-40°F to +158°F)	

📖 **NOTE**

Cards shipped since June 2014 have an applicability label attached at the back. Notice the card model and applicable device series on the label to avoid installing a card into an inapplicable device.

Functions and features of the ES5D21X02S01

Function and Feature	Description
Basic function	Provides two 10GE SFP+ optical ports for data access and line-rate switching.
Hot swap	Supported
Service ports for stacking	The service ports on the card can be used as stack ports.

ES5D21VST000 (Dedicated Stack Card with 2 QSFP+ Interface)

The ES5D21VST000 is a stack card that provides two QSFP+ optical ports for stack connection. It can be installed in a rear card slot of the switch models listed in the following table.

Technical specifications of the ES5D21VST000

Card Model	Technical Specifications	Applied Switch Model

ES5D21VST000
	• Physical specifications:
	  − Dimensions (W x D x H): 100 mm x 208 mm x 40 mm (3.9 in. x 8.2 in. x 1.6 in.)
	  − Weight: 0.92 kg (2.03 lb)
	  − Maximum power consumption: 9 W
	• Environment parameters:
	  − Operating temperature: 0°C to 45°C (32°F to 113°F)
	  − Relative humidity: 5% RH to 95% RH
	  − Storage temperature: -40°C to +70°C (-40°F to +158°F)
		S5720-C-EI and S5720-PC-EI series

📖 **NOTE**

Cards shipped since June 2014 have an applicability label attached at the back. Notice the card model and applicable device series on the label to avoid installing a card into an inapplicable device.

Functions and features of the ES5D21VST000

Function and Feature	Description
Basic function	Provides two QSFP+ optical ports for setting up a stack system among multiple switches.
Hot swap	Supported

Fan Module

The following table lists the fan module applicable to the S5720-EI.

Technical specifications of the fan module available in the S5720-EI series

Fan Module	Technical Specifications	Applied Switch Model
FAN-028A-B	• Dimensions (W x D x H): 100 mm x 220 mm x 40 mm • Number of fans: 2 • Weight: 0.34 kg • Maximum power consumption: 12 W • Maximum fan speed: 16000±10% revolutions per minute (RPM) • Maximum wind rate: 28 cubic feet per minute (CFM) • Hot swap: Supported	S5720-C-EI and S5720-PC-EI series **NOTE** Besides the S5720-C-EI and S5720-PC-EI series, the S5720-EI has a built-in heat dissipation system. Customers do not need to purchase fan modules.

Power Supply

The following table lists the power supplies applicable to the S5720-EI.

Technical specifications of power supplies applicable to the S5720-EI series

Power Module	Technical Specifications	Applied Switch Model
ES0W2PSA0150	• Dimensions (W x D x H): 100 mm x 205 mm x 40 mm (3.9 in. x 8.1 in. x 1.6 in.) • Weight: 0.8 kg (1.76 lb) • Rated input voltage range: 100 V AC to 240 V AC, 50/60 Hz • Maximum input voltage range: 90 V AC to 264 V AC, 47 Hz to 63 Hz • Maximum input current: 3 A • Maximum output current: 12.5 A • Rated output voltage: 12 V • Maximum output power: 150 W • Hot swap: Supported	• S5720-36C-EI-AC • S5720-56C-EI-AC • S5720-56C-EI-DC • S5720-36C-EI-28S-AC • S5720-36C-EI-28S-DC • S5720-56C-EI-48S-AC • S5720-56C-EI-48S-DC • S5720-36PC-EI-AC • S5720-56PC-EI-AC
ES0W2PSD0150	• Dimensions (W x D x H): 100 mm x 205 mm x 40 mm (3.9 in. x 8.1 in. x 1.6 in.) • Weight: 0.8 kg (1.76 lb) • Rated input voltage range: -48 V DC to -60 V DC • Maximum input voltage range: -36 V DC to -72 V DC • Maximum input current: 3 A • Maximum output current: 12.5 A • Rated output voltage: 12 V • Maximum output power: 150 W • Hot swap: Supported	• S5720-36C-EI-AC • S5720-56C-EI-AC • S5720-56C-EI-DC • S5720-36C-EI-28S-AC • S5720-36C-EI-28S-DC • S5720-56C-EI-48S-AC • S5720-56C-EI-48S-DC • S5720-36PC-EI-AC • S5720-56PC-EI-AC
	• Dimensions (W x D x H): 100 mm x 205 mm x 40 mm (3.9 in. x 8.1 in. x 1.6 in.) • Weight: 1.06 kg (2.34 lb) • Rated input voltage range: 100 V AC to 240 V AC, 50/60 Hz • Maximum input voltage range: 90 V AC to 264 V	• S5720-36C-PWR-EI-AC • S5720-56C-PWR-EI-DC • S5720-56C-PWR-EI-AC