

# S5730-SI Series Standard Gigabit Ethernet Switches

The S5730-SI series switches are next-generation standard gigabit Layer 3 Ethernet switches. They can be used as access or aggregation switches on a campus network or as access switches in a data center.

## Introduction

The S5730-SI series switches are next-generation standard gigabit Layer 3 Ethernet switches that provide flexible all-gigabit access and cost-effective fixed GE/10GE ports as well as 40GE uplink ports. The S5730-SI builds on next-generation high-performing hardware and the Huawei Versatile Routing Platform (VRP). The S5730-SI supports simplified operations and maintenance (O&M), intelligent stack (iStack), and flexible Ethernet networking. It also provides enhanced Layer 3 features and mature IPv6 features. The S5730-SI can be used in various scenarios. For example, it can be used as an access or aggregation switch on a campus network or as an access switch in a data center.

## Product Overview

### Models and Appearances

The following models are available in the S5730-SI series.

Models and appearances of the S5730-SI series

Appearance	Description
 S5730-48C-SI-AC	<ul style="list-style-type: none"> <li>• 24 10/100/1000 Ethernet ports, 8 10GE SFP+ ports</li> <li>• One interface slot</li> <li>• One 150 W AC power supply equipped by default</li> <li>• Forwarding performance: 240 Mpps</li> <li>• Switching capacity: 680 Gbit/s</li> </ul>
 S5730-48C-PWR-SI-AC	<ul style="list-style-type: none"> <li>• 24 10/100/1000 Ethernet ports, 8 10GE SFP+ ports</li> <li>• PoE+</li> <li>• One interface slot</li> <li>• One 500 W AC power supply equipped by default</li> <li>• Forwarding performance: 240 Mpps</li> <li>• Switching capacity: 680 Gbit/s</li> </ul>
 S5730-68C-SI-AC	<ul style="list-style-type: none"> <li>• 48 10/100/1000 Ethernet ports, 4 10GE SFP+ ports</li> <li>• One interface slot</li> <li>• One 150 W AC power supply equipped by default</li> <li>• Forwarding performance: 240 Mpps</li> </ul>

Appearance	Description
 <p>S5730-68C-PWR-SI-AC</p>	<ul style="list-style-type: none"> <li>Switching capacity: 680 Gbit/s</li> <li>48 10/100/1000 Ethernet ports, 4 10GE SFP+ ports</li> <li>PoE+</li> <li>One interface slot</li> <li>One 500 W AC power supply equipped by default</li> <li>Forwarding performance: 240 Mpps</li> <li>Switching capacity: 680 Gbit/s</li> </ul>
 <p>S5730-68C-PWR-SI</p>	<ul style="list-style-type: none"> <li>48 10/100/1000 Ethernet ports, 4 10GE SFP+ ports</li> <li>PoE+</li> <li>One interface slot</li> <li>Forwarding performance: 240 Mpps</li> <li>Switching capacity: 680 Gbit/s</li> </ul>

## Card Types

The S5730-SI provides one slot for ES5D21Q04Q01 (4-port 40GE QSFP+ rear interface card) for upstream connections or ES5D21VST000 (dedicated stack card with two QSFP+ ports) for stack connection.

### ES5D21Q04Q01 (4-Port 40 Gig QSFP+ Rear Interface Card)

The ES5D21Q04Q01 provides four 40GE QSFP+ optical ports for data access and line-rate switching.

#### Technical specifications of the ES5D21Q04Q01

Model	Technical Specifications	Applied Switch Model
 <p>ES5D21Q04Q01</p>	<ul style="list-style-type: none"> <li>Physical specifications: <ul style="list-style-type: none"> <li>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.)</li> <li>Weight: 0.5 kg (1.10 lb)</li> <li>Maximum power consumption: 18.83 W</li> </ul> </li> <li>Environment parameters: <ul style="list-style-type: none"> <li>Operating temperature: 0°C to 45°C (32°F to 113°F)</li> <li>Relative humidity: 5% RH to 95% RH</li> <li>Storage temperature: -40°C to +70°C (-40°F to +158°F)</li> </ul> </li> </ul> <p><b>NOTE</b></p> <p>When an ES5D21Q04Q01 card on the S5730-SI has a 40 km QSFP+ optical module installed, the operating temperature must be in the range of 0°C to 40°C.</p>	<ul style="list-style-type: none"> <li>S5730-48C-SI-AC</li> <li>S5730-48C-PWR-SI-AC</li> <li>S5730-68C-SI-AC</li> <li>S5730-68C-PWR-SI-AC</li> <li>S5730-68C-PWR-SI</li> </ul>

#### 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 ES5D21Q04Q01

Function and Feature	Description
Basic function	Provides four 40GE QSFP+ optical ports for data access and line-rate switching. Each 40GE port can be split into four 10GE ports.

Function and Feature	Description
Hot swap	Supported
Service ports for stacking	Ports on the card can be used as stack ports. <b>NOTE</b> A 40GE port cannot be used as a stack port after it is split into four 10GE ports.

## ES5D21VST000 (Dedicated Stack Card with 2\*QSFP+ Interface)

The ES5D21VST000 is a stack card that provides two QSFP+ optical ports for stack connection.

Technical specifications of the ES5D21VST000

Model	Technical Specifications	Applied Switch Model
 ES5D21VST000	<ul style="list-style-type: none"> <li>Physical specifications:               <ul style="list-style-type: none"> <li>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.)</li> <li>Weight: 0.92 kg (2.03 lb)</li> <li>Maximum power consumption: 9 W</li> </ul> </li> <li>Environment parameters:               <ul style="list-style-type: none"> <li>Operating temperature: 0°C to 45°C (32°F to 113°F)</li> <li>Relative humidity: 5% RH to 95% RH</li> <li>Storage temperature: -40°C to +70°C (-40°F to +158°F)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>S5730-48C-SI-AC</li> <li>S5730-48C-PWR-SI-AC</li> <li>S5730-68C-SI-AC</li> <li>S5730-68C-PWR-SI-AC</li> <li>S5730-68C-PWR-SI</li> </ul>

### 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 ES5D21Q04Q01

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 S5730-SI.

Technical specifications of the fan module applicable to the S5730-SI series

Fan Module	Technical Specifications	Applied Switch Model
 FAN-028A-B	<ul style="list-style-type: none"> <li>Dimensions (W x D x H): 100 mm x 220 mm x 40 mm</li> <li>Number of fans: 2</li> <li>Weight: 0.34 kg</li> <li>Maximum power consumption: 12 W</li> <li>Maximum fan speed: 16000±10% revolutions per minute (RPM)</li> <li>Maximum wind rate: 28 cubic feet per minute (CFM)</li> </ul>	<ul style="list-style-type: none"> <li>S5730-48C-SI-AC</li> <li>S5730-48C-PWR-SI-AC</li> <li>S5730-68C-SI-AC</li> <li>S5730-68C-PWR-SI-AC</li> <li>S5730-68C-PWR-SI</li> </ul>

Fan Module	Technical Specifications	Applied Switch Model
	<ul style="list-style-type: none"> <li>Hot swap: Supported</li> </ul>	

## Power Supply

The following table lists the power supplies applicable to the S5730-SI.

Technical specifications of the power supplies applicable to the S5730-SI series

Power Module	Technical Specifications	Applied Switch Model
 <p>ES0W2PSA0150</p>	<ul style="list-style-type: none"> <li>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.)</li> <li>Weight: 0.8 kg (1.76 lb)</li> <li>Rated input voltage range: 100 V AC to 240 V AC, 50/60 Hz</li> <li>Maximum input voltage range: 90 V AC to 264 V AC, 47 Hz to 63 Hz</li> <li>Maximum input current: 3 A</li> <li>Maximum output current: 12.5 A</li> <li>Rated output voltage: 12 V</li> <li>Maximum output power: 150 W</li> <li>Hot swap: Supported</li> </ul>	<ul style="list-style-type: none"> <li>S5730-48C-SI-AC</li> <li>S5730-68C-SI-AC</li> </ul>
 <p>ES0W2PSD0150</p>	<ul style="list-style-type: none"> <li>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.)</li> <li>Weight: 0.8 kg (1.76 lb)</li> <li>Rated input voltage range: -48 V DC to -60 V DC</li> <li>Maximum input voltage range: -36 V DC to -72 V DC</li> <li>Maximum input current: 3 A</li> <li>Maximum output current: 12.5 A</li> <li>Rated output voltage: 12 V</li> <li>Maximum output power: 150 W</li> <li>Hot swap: Supported</li> </ul>	<ul style="list-style-type: none"> <li>S5730-48C-SI-AC</li> <li>S5730-68C-SI-AC</li> </ul>
 <p>PAC-500WA-BE</p>	<ul style="list-style-type: none"> <li>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.)</li> <li>Weight: 1.06 kg (2.34 lb)</li> <li>Rated input voltage range: 100 V AC to 240 V AC, 50/60 Hz</li> <li>Maximum input voltage range: 90 V AC to 264 V AC, 47 Hz to 63 Hz</li> <li>Maximum input current: 7 A to 3.5 A</li> <li>Maximum output current: <ul style="list-style-type: none"> <li>+12 V: 10 A</li> <li>-53.5 V: 7.11 A</li> </ul> </li> <li>Maximum output power: <ul style="list-style-type: none"> <li>+12 V: 120 W</li> <li>-53.5 V: 380 W</li> </ul> </li> <li>Hot swap: Supported</li> </ul>	<ul style="list-style-type: none"> <li>S5730-48C-PWR-SI-AC</li> <li>S5730-68C-PWR-SI-AC</li> <li>S5730-68C-PWR-SI</li> </ul>

Power Module	Technical Specifications	Applied Switch Model
 <p>PDC-650WA-BE</p>	<ul style="list-style-type: none"> <li>• 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.)</li> <li>• Weight: 0.83 kg (1.83 lb)</li> <li>• Rated input voltage range: -48 V DC to -60 V DC</li> <li>• Maximum input voltage range: -38.4 V DC to -72 V DC</li> <li>• Maximum input current: 20 A</li> <li>• Maximum output current: <ul style="list-style-type: none"> <li>- +12 V: 22.5 A</li> <li>- -53.5 V: 7.11 A</li> </ul> </li> <li>• Maximum output power: <ul style="list-style-type: none"> <li>- PoE power: 380 W</li> <li>- Total power: 650 W</li> </ul> </li> <li>• Hot swap: Supported</li> </ul>	<ul style="list-style-type: none"> <li>• S5730-48C-PWR-SI-AC</li> <li>• S5730-68C-PWR-SI-AC</li> <li>• S5730-68C-PWR-SI</li> </ul>
 <p>W2PSA1150</p>	<ul style="list-style-type: none"> <li>• Dimensions (W x D x H): 100.0 mm x 281.0 mm x 41.4 mm (3.9 in. x 11.1 in. x 1.63 in.)</li> <li>• Weight: &lt; 1.6 kg (3.53 lb)</li> <li>• Rated input voltage range: 100 V AC to 240 V AC, 50/60 Hz</li> <li>• Maximum input voltage range: 90 V AC to 290 V AC, 45 Hz to 65 Hz</li> <li>• Input current: 10 A</li> <li>• Maximum output current: <ul style="list-style-type: none"> <li>- +12 V: 29.17 A</li> <li>- -53.5 V: 14.95 A</li> </ul> </li> <li>• Maximum output power: <ul style="list-style-type: none"> <li>- PoE power: 800 W (220 V)/450 W (110 V)</li> <li>- Total power: 1150 W (220 V)/800 W (110 V)</li> </ul> </li> <li>• Hot swap: Supported</li> </ul>	<ul style="list-style-type: none"> <li>• S5730-68C-PWR-SI</li> </ul>
 <p>PAC1000D5412</p>	<ul style="list-style-type: none"> <li>• Dimensions (W x D x H): 99 mm x 204 mm x 42 mm (3.9 in. x 8.1 in. x 1.7 in.)</li> <li>• Weight: 1.1 kg (2.43 lb)</li> <li>• Rated input voltage range: 100 V AC to 240 V AC, 50/60 Hz</li> <li>• Maximum input voltage range: 90 V AC to 290 V AC, 47 Hz to 63 Hz</li> <li>• Input current: <ul style="list-style-type: none"> <li>- 100 V AC to 130 V AC: 12 A</li> <li>- 200 V AC to 240 V AC: 6 A</li> </ul> </li> <li>• Maximum output current: <ul style="list-style-type: none"> <li>- +12 V: 20.84 A</li> <li>- -53.5 V: 14.58 A</li> </ul> </li> <li>• Maximum output power: <ul style="list-style-type: none"> <li>- PoE: 754.6 W</li> <li>- Total: 1000 W</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• S5730-68C-PWR-SI</li> </ul>

Power Module	Technical Specifications	Applied Switch Model
	<ul style="list-style-type: none"> <li>Hot swap: Supported</li> </ul>	

 **NOTE**

The S5730-SI supports multiple power supply options, including dual-power, PoE, and single-power.

## Dual-Power (Non-PoE)

Dual-power models (non-PoE) use pluggable power supplies and provide two power slots. By default, one AC power supply (ES0W2PSA0150) is equipped. When a switch has two power supplies installed, the power supplies work in 1+1 backup mode to power the switch. The switch supports dual AC power supplies, dual DC power supplies, as well as mixed insertion of AC and DC power supplies.

The following table lists the power supply options supported by the S5730-SI.

### Power supply options supported by the S5730-SI series

Model	Power Supply 1	Power Supply 2
S5730-48C-SI-AC	ES0W2PSA0150 (150 W-AC) or ES0W2PSD0150 (150 W-DC)	ES0W2PSA0150 (150 W-AC) or ES0W2PSD0150 (150 W-DC)
S5730-68C-SI-AC	ES0W2PSA0150 (150 W-AC) or ES0W2PSD0150 (150 W-DC)	ES0W2PSA0150 (150 W-AC) or ES0W2PSD0150 (150 W-DC)

## PoE/PoE+

**PWR** in the model name indicates a PoE-capable switch, which supports IEEE 802.3af-compliant PoE and 802.3at-compliant PoE+. Each port delivers 15.4 W PoE or 30 W PoE+ power capacity.

Each PoE-capable S5730-SI switch has two power slots for pluggable PoE power supplies. The following table lists the power supply options supported by PoE-capable S5730-SI models.

### Power supply options supported by the PoE-capable S5730-SI series

Model	Power Supply 1	Power Supply 2	PoE Power Supply	Number of PoE Ports
S5730-48C-PWR-SI-AC	500 W	-	370 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 24</li> <li>PoE+ (30 W): 12</li> </ul>
	500 W or 650 W	500 W or 650 W	740 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 24</li> <li>PoE+ (30 W): 24</li> </ul>
S5730-68C-PWR-SI-AC	500 W	-	370 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 24</li> <li>PoE+ (30 W): 12</li> </ul>
	500 W or 650 W	500 W or 650 W	740 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 48</li> <li>PoE+ (30 W): 24</li> </ul>
S5730-68C-PWR-SI	500 W or 650 W	-	370 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 24</li> <li>PoE+ (30 W): 12</li> </ul>
	500 W or 650 W	500 W or 650 W	740 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 48</li> <li>PoE+ (30 W): 24</li> </ul>
	1150 W (220 V)	-	800 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 48</li> <li>PoE+ (30 W): 26</li> </ul>
	1150 W (110 V)	-	450 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 29</li> <li>PoE+ (30 W): 14</li> </ul>

Model	Power Supply 1	Power Supply 2	PoE Power Supply	Number of PoE Ports
	1150 W (220 V)	1150 W (220 V)	1440 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 48</li> <li>PoE+ (30 W): 48</li> </ul>
	1150 W (110 V)	1150 W (110 V)	893.2 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 48</li> <li>PoE+ (30 W): 29</li> </ul>
	1000 W (220 V)	-	754.6 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 48</li> <li>PoE+ (30 W): 25</li> </ul>
	1000 W (220 V)	1000 W (220 V)	1440 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 48</li> <li>PoE+ (30 W): 48</li> </ul>
	1000 W (110 V)	-	754.6 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 48</li> <li>PoE+ (30 W): 25</li> </ul>
	1000 W (110 V)	1000 W (110 V)	1440 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 48</li> <li>PoE+ (30 W): 48</li> </ul>
	1000 W (220 V)	1150 W (220 V)	1440 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 48</li> <li>PoE+ (30 W): 48</li> </ul>
	1150 W (220 V)	1000 W (220 V)	1440 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 48</li> <li>PoE+ (30 W): 48</li> </ul>
	1000 W (110 V)	1150 W (110 V)	893.2 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 48</li> <li>PoE+ (30 W): 29</li> </ul>
	1150 W (110 V)	1000 W (110 V)	893.2 W	<ul style="list-style-type: none"> <li>PoE (15.4 W): 48</li> <li>PoE+ (30 W): 29</li> </ul>

#### NOTE

When a switch has two power supplies installed, the two power supplies work in redundancy mode to provide power for the switch and in load balancing mode to provide power for powered devices (PDs).

## Single-Power

Single-power models use a built-in AC power supply. Single-power models include S5730-48C-SI-AC, S5730-48C-PWR-SI-AC, S5730-68C-SI-AC, S5730-68C-PWR-SI-AC, and S5730-68C-PWR-SI.

# Product Features and Highlights

## Powerful Service Processing Capability and Multiple Security Control Mechanisms

- The S5730-SI supports many Layer 2/Layer 3 multicast protocols such as PIM SM, PIM DM, PIM SSM, MLD, and IGMP snooping, to support multi-terminal high-definition video surveillance and video conferencing services.
- The S5730-SI supports multiple Layer 3 features including OSPF, IS-IS, BGP, and VRRP, meeting enterprises' requirements on access and aggregation service transmission and enabling a variety of voice, video, and data applications.
- The S5730-SI supports MAC address authentication, 802.1X authentication, and Portal authentication, and implements dynamic delivery of policies (VLAN, QoS, and ACL) to users.
- The S5730-SI provides a series of mechanisms to defend against DoS and user-targeted attacks. DoS attacks are targeted at switches and include SYN flood, Land, Smurf, and ICMP flood attacks. User-targeted attacks include bogus DHCP server attacks, IP/MAC address spoofing, DHCP request flood, and change of the DHCP CHADDR value.
- The S5730-SI sets up and maintains a DHCP snooping binding table, and discards the packets that do not match the table entries. You can specify DHCP snooping trusted and untrusted ports to ensure that users connect only to the authorized DHCP server.

- The S5730-SI supports strict ARP learning, which protects a network against ARP spoofing attacks to ensure normal network access.

## Easy O&M

- The S5730-SI supports Super Virtual Fabric (SVF), which virtualizes the "Core/Aggregation switches + Access switches + APs" structure into a single logical device. The S5730-SI provides the simplest network management solution in the industry to simplify device management. It allows plug-and-play of access switches and APs. In addition, the S5730-SI supports service configuration templates. The templates are configured on core devices and automatically delivered to access devices, enabling centralized control, simplified service configuration, and flexible configuration modification. The S5730-SI functions as a client in an SVF system.
- The S5730-SI supports zero-touch deployment, replacement of faulty devices without additional configuration, USB-based deployment, batch configuration, and batch remote upgrade. The capabilities facilitate device deployment, upgrade, service provisioning, and other management and maintenance operations, and also greatly reduce O&M costs. The S5730-SI can be managed using SNMP v1/v2c/v3, CLI, web-based network management system, or SSH v2.0. Additionally, it supports RMON, multiple log hosts, port traffic statistics collection, and network quality analysis, which facilitate network optimization and reconstruction.
- The S5730-SI supports the Sampled Flow (sFlow) function. It uses a method defined in the sFlow standard to sample traffic passing through it and sends sampled traffic to the collector in real time. The collected traffic statistics are used to generate statistical reports, helping enterprises maintain their networks.

## Multiple Reliability Mechanisms

- The S5730-SI supports iStack. This technology can virtualize up to nine physical switches into a single logical switch. Member switches in a stack implement redundancy backup to improve device reliability and use inter-device link aggregation to improve link reliability. iStack provides high network scalability. You can increase a stack's ports, bandwidth, and processing capacity by simply adding member switches. iStack also simplifies device configuration and management. After a stack is set up, multiple physical switches are virtualized into one logical device. You can log in to any member switch in the stack to manage all the member switches in the stack.
- The S5730-SI is equipped with two removable power supplies that can work in 1+1 redundancy backup mode. Mixed installation of AC and DC power supplies is supported, allowing for flexible configuration of AC and DC power supplies according to service requirements.
- In addition to traditional STP, RSTP, and MSTP, the S5730-SI supports Huawei-developed Smart Ethernet Protection (SEP) technology and the latest Ethernet Ring Protection Switching (ERPS) standard. SEP is a ring protection protocol specific to the Ethernet link layer, and applies to various ring network topologies, such as open ring topology, closed ring topology, and cascading ring topology. This protocol is reliable and easy to maintain, and implements fast protection switching within 50 ms. ERPS is defined in ITU-T G. 8032. It implements millisecond-level protection switching based on traditional Ethernet MAC and bridging functions.
- The S5730-SI supports Smart Link. One S5730-SI switch can connect to multiple aggregation switches through multiple links, implementing backup of uplinks and significantly improving reliability of access devices.
- The S5730-SI supports Ethernet OAM (IEEE 802.3ah/802.1ag) to detect link faults quickly.

## Mature IPv6 Technologies

- The S5730-SI uses the mature, stable VRRP platform and supports IPv4/IPv6 dual stacks, IPv6 RIPng, and IPv6 over IPv4 tunnels (including manual, 6-to-4, and ISATAP tunnels). With these IPv6 features, the S5730-SI can be deployed on a pure IPv4 network, a pure IPv6 network, or a shared IPv4/IPv6 network, helping achieve IPv4-to-IPv6 transition.

## OPS

- Open Programmability System (OPS) is an open programmable system based on the Python language. IT administrators can program the O&M functions of a switch through Python scripts to quickly innovate functions and implement intelligent O&M.

## Perpetual PoE

- When a PoE switch is rebooted by running the **reboot** command or the software version is upgraded, the power supply to PDs is not interrupted. This capability ensures that PDs are not powered off during the switch reboot.



### NOTE

For more information about PoE, visit

<https://e.huawei.com/en/material/onlineView?materialid=e28cc3ad158140e8af1547bc510ecd34>

## Fast PoE

- S5730-48C/68C-PWR-SI switches can supply power to PDs within 10 seconds after they are powered on. This is different from common switches that generally take 1 to 3 minutes to start to supply power to PDs. When a PoE switch reboots due to a power failure, the PoE switch continues to supply power to the PDs immediately after being powered on without waiting until it finishes reboot. This greatly shortens the power failure time of PDs.

# Product Specifications

## Functions and Features

The following table lists the functions and features available on the S5730-SI.

Function and feature metrics for the S5730-SI series

Function and Feature		Description	S5730-48C-SI series	S5730-48C-PWR-SI series	S5730-68C-SI series	S5730-68C-PWR-SI series
Ethernet features	Ethernet basics	Full-duplex, half-duplex, and auto-negotiation	Yes	Yes	Yes	Yes
		Rate auto-negotiation on an interface	Yes	Yes	Yes	Yes
		Flow control on an interface	Yes	Yes	Yes	Yes
		Jumbo frames	Yes	Yes	Yes	Yes
		Link aggregation	Yes	Yes	Yes	Yes
		Load balancing among links of a trunk	Yes	Yes	Yes	Yes
		Transparent transmission of Layer 2 protocol packets	Yes	Yes	Yes	Yes
		Device Link Detection Protocol (DLDP)	Yes	Yes	Yes	Yes
		Link Layer Discovery Protocol (LLDP)	Yes	Yes	Yes	Yes
		Link Layer Discovery Protocol-Media Endpoint Discovery (LLDP-MED)	Yes	Yes	Yes	Yes
		Interface isolation	Yes	Yes	Yes	Yes
		Broadcast traffic suppression on an interface	Yes	Yes	Yes	Yes
		Multicast traffic suppression on an interface	Yes	Yes	Yes	Yes
		Unknown unicast traffic suppression on an interface	Yes	Yes	Yes	Yes
VLAN broadcast traffic suppression	Yes	Yes	Yes	Yes		

Function and Feature		Description	S5730-48C-SI series	S5730-48C-PWR-SI series	S5730-68C-SI series	S5730-68C-PWR-SI series
		VLAN multicast traffic suppression	Yes	Yes	Yes	Yes
		VLAN unknown unicast traffic suppression	Yes	Yes	Yes	Yes
	VLAN	VLAN specification	4K	4K	4K	4K
		VLANIF interface specification	1K	1K	1K	1K
		Access mode	Yes	Yes	Yes	Yes
		Trunk mode	Yes	Yes	Yes	Yes
		Hybrid mode	Yes	Yes	Yes	Yes
		QinQ mode	Yes	Yes	Yes	Yes
		Default VLAN	Yes	Yes	Yes	Yes
		VLAN assignment based on interfaces	Yes	Yes	Yes	Yes
		VLAN assignment based on protocols	Yes	Yes	Yes	Yes
		VLAN assignment based on IP subnets	Yes	Yes	Yes	Yes
		VLAN assignment based on MAC addresses	Yes	Yes	Yes	Yes
		VLAN assignment based on MAC address + IP address	Yes	Yes	Yes	Yes
		VLAN assignment based on MAC address + IP address + interface number	Yes	Yes	Yes	Yes
		Adding double VLAN tags to packets based on interfaces	Yes	Yes	Yes	Yes
		VLAN mapping	Yes	Yes	Yes	Yes
		Selective QinQ	Yes	Yes	Yes	Yes
		MUX VLAN	Yes	Yes	Yes	Yes
		Voice VLAN	Yes	Yes	Yes	Yes
		Guest VLAN	Yes	Yes	Yes	Yes
		GVRP	GARP	Yes	Yes	Yes
	GVRP		Yes	Yes	Yes	Yes
	VCMP	VCMP	Yes	Yes	Yes	Yes
	MAC	MAC address	32K	32K	32K	32K
		Automatic learning of MAC	Yes	Yes	Yes	Yes

Function and Feature		Description	S5730-48C-SI series	S5730-48C-PWR-SI series	S5730-68C-SI series	S5730-68C-PWR-SI series	
		addresses					
		Automatic aging of MAC addresses	Yes	Yes	Yes	Yes	
		Static, dynamic, and blackhole MAC address entries	Yes	Yes	Yes	Yes	
		Interface-based MAC address learning limiting	Yes	Yes	Yes	Yes	
		Sticky MAC	Yes	Yes	Yes	Yes	
		MAC address flapping detection	Yes	Yes	Yes	Yes	
		MAC address spoofing defense	Yes	Yes	Yes	Yes	
		Port bridge	Yes	Yes	Yes	Yes	
	ARP	Static ARP	Yes	Yes	Yes	Yes	
		Dynamic ARP	Yes	Yes	Yes	Yes	
		ARP entry	20K	20K	20K	20K	
		ARP aging detection	Yes	Yes	Yes	Yes	
		Intra-VLAN proxy ARP	Yes	Yes	Yes	Yes	
		Routed proxy ARP	Yes	Yes	Yes	Yes	
	Ethernet loop protection	MSTP	STP	Yes	Yes	Yes	Yes
			RSTP	Yes	Yes	Yes	Yes
MSTP			Yes	Yes	Yes	Yes	
VBST			Yes	Yes	Yes	Yes	
BPDU protection			Yes	Yes	Yes	Yes	
Root protection			Yes	Yes	Yes	Yes	
Loop protection			Yes	Yes	Yes	Yes	
Defense against TC BPDU attacks			Yes	Yes	Yes	Yes	
Loopback detection		Loop detection on an interface	Yes	Yes	Yes	Yes	
SEP		SEP	Yes	Yes	Yes	Yes	
Smart Link		Smart Link	Yes	Yes	Yes	Yes	
		Smart Link multi-instance	Yes	Yes	Yes	Yes	
		Monitor Link	Yes	Yes	Yes	Yes	
RRPP		RRPP	Yes	Yes	Yes	Yes	
	Single RRPP ring	Yes	Yes	Yes	Yes		

Function and Feature		Description	S5730-48C-SI series	S5730-48C-PWR-SI series	S5730-68C-SI series	S5730-68C-PWR-SI series	
		Tangent RRPP ring	Yes	Yes	Yes	Yes	
		Intersecting RRPP ring	Yes	Yes	Yes	Yes	
		Hybrid networking of RRPP rings and other ring networks	Yes	Yes	Yes	Yes	
	ERPS	G.8032 v1	Yes	Yes	Yes	Yes	
		G.8032 v2	Yes	Yes	Yes	Yes	
		ERPS semi-ring topology	Yes	Yes	Yes	Yes	
		ERPS closed-ring topology	Yes	Yes	Yes	Yes	
	IPv4/IPv6 forwarding	IPv4 and unicast routing	IPv4 static routing	Yes	Yes	Yes	Yes
VRF			Yes	Yes	Yes	Yes	
DHCP client			Yes	Yes	Yes	Yes	
DHCP server			Yes	Yes	Yes	Yes	
DHCP relay			Yes	Yes	Yes	Yes	
Routing policies			Yes	Yes	Yes	Yes	
IPv4 routes			8K	8K	8K	8K	
RIPv1			Yes	Yes	Yes	Yes	
RIPv2			Yes	Yes	Yes	Yes	
OSPF			Yes	Yes	Yes	Yes	
Policy-based routing (PBR)			Yes	Yes	Yes	Yes	
Multicast routing features		IGMPv1/v2/v3	Yes	Yes	Yes	Yes	
		PIM-DM	Yes	Yes	Yes	Yes	
		PIM-SM	Yes	Yes	Yes	Yes	
		MSDP	Yes	Yes	Yes	Yes	
		IPv4 multicast routes	1.5K	1.5K	1.5K	1.5K	
		IPv6 multicast routes	0.5K	0.5K	0.5K	0.5K	
		Multicast routing policies	Yes	Yes	Yes	Yes	
IPv6 features		RPF	Yes	Yes	Yes	Yes	
		IPv6 features	IPv6 protocol stack	Yes	Yes	Yes	Yes
			ND	Yes	Yes	Yes	Yes
			ND entry	10K	10K	10K	10K
			ND snooping	Yes	Yes	Yes	Yes
			DHCPv6 snooping	Yes	Yes	Yes	Yes
RIPng	Yes		Yes	Yes	Yes		

Function and Feature		Description	S5730-48C-SI series	S5730-48C-PWR-SI series	S5730-68C-SI series	S5730-68C-PWR-SI series
		DHCPv6 server	Yes	Yes	Yes	Yes
		DHCPv6 relay	Yes	Yes	Yes	Yes
		OSPFv3	Yes	Yes	Yes	Yes
		IPv6 routes	4K	4K	4K	4K
		VRRP6	Yes	Yes	Yes	Yes
		MLDv1/v2	Yes	Yes	Yes	Yes
		PIM-DM for IPv6	Yes	Yes	Yes	Yes
		PIM-SM for IPv6	Yes	Yes	Yes	Yes
Layer 2 multicast features	-	IGMPv1/v2/v3 snooping	Yes	Yes	Yes	Yes
		IGMP snooping proxy	Yes	Yes	Yes	Yes
		MLD snooping	Yes	Yes	Yes	Yes
		Multicast traffic suppression	Yes	Yes	Yes	Yes
		Inter-VLAN multicast replication	Yes	Yes	Yes	Yes
Device reliability	Stacking	Service interface-based stacking	Yes	Yes	Yes	Yes
		Service interface-based stacking bandwidth	Up to 272 Gbit/s	Up to 272 Gbit/s	Up to 272 Gbit/s	Up to 272 Gbit/s
		Stack card-based stacking	Yes	Yes	Yes	Yes
		Stack card-based stacking bandwidth (Unidirectional)	Up to 80 Gbit/s	Up to 80 Gbit/s	Up to 80 Gbit/s	Up to 80 Gbit/s
		Maximum number of stacked devices (Unidirectional)	9	9	9	9
		Stack bandwidth	Up to 272 Gbit/s	Up to 272 Gbit/s	Up to 272 Gbit/s	Up to 272 Gbit/s
	VRRP	VRRP standard protocol	Yes	Yes	Yes	Yes
Ethernet OAM	EFM (802.3ah)	Automatic discovery of links	Yes	Yes	Yes	Yes
		Link fault detection	Yes	Yes	Yes	Yes
		Link troubleshooting	Yes	Yes	Yes	Yes
		Remote loopback	Yes	Yes	Yes	Yes
	CFM (802.1ag)	Software-level CCM	Yes	Yes	Yes	Yes
		802.1ag MAC ping	Yes	Yes	Yes	Yes
		802.1ag MAC trace	Yes	Yes	Yes	Yes
	OAM association	Association between	Yes	Yes	Yes	Yes

Function and Feature		Description	S5730-48C-SI series	S5730-48C-PWR-SI series	S5730-68C-SI series	S5730-68C-PWR-SI series
		802.1ag and 802.3ah				
	Y.1731	Unidirectional delay and jitter measurement	Yes	Yes	Yes	Yes
		Bidirectional delay and jitter measurement	Yes	Yes	Yes	Yes
QoS features	Traffic classification	Traffic classification based on ACLs	Yes	Yes	Yes	Yes
		Configuring traffic classification priorities	Yes	Yes	Yes	Yes
		Matching the simple domains of packets	Yes	Yes	Yes	Yes
	Traffic behavior	Traffic filtering	Yes	Yes	Yes	Yes
		Traffic policing (CAR)	Yes	Yes	Yes	Yes
		Modifying the packet priorities	Yes	Yes	Yes	Yes
		Modifying the simple domains of packets	Yes	Yes	Yes	Yes
		Modifying the packet VLANs	Yes	Yes	Yes	Yes
	Traffic shaping	Traffic shaping on an egress interface	Yes	Yes	Yes	Yes
		Traffic shaping on queues on an interface	Yes	Yes	Yes	Yes
	Congestion avoidance	Tail drop	Yes	Yes	Yes	Yes
	Congestion management	Priority Queuing (PQ)	Yes	Yes	Yes	Yes
		Weighted Deficit Round Robin (WDRR)	Yes	Yes	Yes	Yes
		PQ+WDRR	Yes	Yes	Yes	Yes
		Weighted Round Robin (WRR)	Yes	Yes	Yes	Yes
		PQ+WRR	Yes	Yes	Yes	Yes
ACL	-	IPv4 ACL rule	1K	1K	1K	1K
		IPv6 ACL rule	1K	1K	1K	1K
		Basic IPv4 ACL	Yes	Yes	Yes	Yes
		Advanced IPv4 ACL	Yes	Yes	Yes	Yes
		Basic IPv6 ACL	Yes	Yes	Yes	Yes
		Advanced IPv6 ACL	Yes	Yes	Yes	Yes
		Layer 2 ACL	Yes	Yes	Yes	Yes

Function and Feature		Description	S5730-48C-SI series	S5730-48C-PWR-SI series	S5730-68C-SI series	S5730-68C-PWR-SI series
		User-defined ACL	Yes	Yes	Yes	Yes
Configuration and maintenance	Login and configuration management	Command line interface (CLI)-based configuration	Yes	Yes	Yes	Yes
		Console terminal service	Yes	Yes	Yes	Yes
		Telnet terminal service	Yes	Yes	Yes	Yes
		SSH v1.5	Yes	Yes	Yes	Yes
		SSH v2.0	Yes	Yes	Yes	Yes
		SNMP-based NMS for unified configuration	Yes	Yes	Yes	Yes
		Web page-based configuration and management	Yes	Yes	Yes	Yes
		EasyDeploy (client)	Yes	Yes	Yes	Yes
		SVF	Yes	Yes	Yes	Yes
		OPS	Yes	Yes	Yes	Yes
	File system	Directory and file management	Yes	Yes	Yes	Yes
		File upload and download	Yes	Yes	Yes	Yes
	Monitoring and maintenance	eMDI	Yes	Yes	Yes	Yes
		Hardware monitoring	Yes	Yes	Yes	Yes
		Log information output	Yes	Yes	Yes	Yes
		Alarm information output	Yes	Yes	Yes	Yes
		Debugging information output	Yes	Yes	Yes	Yes
		Port mirroring	Yes	Yes	Yes	Yes
		Flow mirroring	Yes	Yes	Yes	Yes
		Remote mirroring	Yes	Yes	Yes	Yes
	Version upgrade	Energy saving	Yes	Yes	Yes	Yes
		Version upgrade	Yes	Yes	Yes	Yes
			Version rollback	Yes	Yes	Yes
Security	ARP security	ARP packet rate limiting	Yes	Yes	Yes	Yes
		ARP anti-spoofing	Yes	Yes	Yes	Yes
		Association between ARP and STP	Yes	Yes	Yes	Yes
		Dynamic ARP Inspection (DAI)	Yes	Yes	Yes	Yes

Function and Feature		Description	S5730-48C-SI series	S5730-48C-PWR-SI series	S5730-68C-SI series	S5730-68C-PWR-SI series	
		Static ARP Inspection (SAI)	Yes	Yes	Yes	Yes	
		Egress ARP Inspection (EAI)	Yes	Yes	Yes	Yes	
	IP security	ICMP attack defense	Yes	Yes	Yes	Yes	
		IPSG for IPv4	Yes	Yes	Yes	Yes	
		IPSG user capacity	1K	1K	1K	1K	
		IPSG for IPv6	Yes	Yes	Yes	Yes	
		IPSGv6 user capacity	512	512	512	512	
		Local attack defense	CPU attack defense	Yes	Yes	Yes	Yes
	MFF	MFF	Yes	Yes	Yes	Yes	
	DHCP snooping	DHCP snooping	Yes	Yes	Yes	Yes	
		Option 82 function	Yes	Yes	Yes	Yes	
		Dynamic rate limiting for DHCP packets	Yes	Yes	Yes	Yes	
	Attack defense	Defense against malformed packet attacks	Yes	Yes	Yes	Yes	
		Defense against UDP flood attacks	Yes	Yes	Yes	Yes	
		Defense against TCP SYN flood attacks	Yes	Yes	Yes	Yes	
		Defense against ICMP flood attacks	Yes	Yes	Yes	Yes	
		Defense against packet fragment attacks	Yes	Yes	Yes	Yes	
		Local URPF	Yes	Yes	Yes	Yes	
	User access and authentication	AAA	Local authentication	Yes	Yes	Yes	Yes
			Local authorization	Yes	Yes	Yes	Yes
RADIUS authentication			Yes	Yes	Yes	Yes	
RADIUS authorization			Yes	Yes	Yes	Yes	
RADIUS accounting			Yes	Yes	Yes	Yes	
HWTACACS authentication			Yes	Yes	Yes	Yes	
HWTACACS authorization			Yes	Yes	Yes	Yes	
HWTACACS accounting			Yes	Yes	Yes	Yes	
NAC		802.1X authentication	Yes	Yes	Yes	Yes	

Function and Feature		Description	S5730-48C-SI series	S5730-48C-PWR-SI series	S5730-68C-SI series	S5730-68C-PWR-SI series
		MAC address authentication	Yes	Yes	Yes	Yes
		Portal authentication	Yes	Yes	Yes	Yes
		Hybrid authentication	Yes	Yes	Yes	Yes
	Policy association	Functioning as the access device	Yes	Yes	Yes	Yes
Network management	-	Ping	Yes	Yes	Yes	Yes
		Tracert	Yes	Yes	Yes	Yes
		NQA	Yes	Yes	Yes	Yes
		NTP	Yes	Yes	Yes	Yes
		sFlow	Yes	Yes	Yes	Yes
		SNMP v1	Yes	Yes	Yes	Yes
		SNMP v2c	Yes	Yes	Yes	Yes
		SNMP v3	Yes	Yes	Yes	Yes
		HTTP	Yes	Yes	Yes	Yes
		HTTPS	Yes	Yes	Yes	Yes
Interoperability	-	VLAN-based Spanning Tree (VBST)	Yes	Yes	Yes	Yes
		Link-type Negotiation Protocol (LNP)	Yes	Yes	Yes	Yes
		VLAN Central Management Protocol (VCMP)	Yes	Yes	Yes	Yes

#### NOTE

This content is applicable only to regions outside mainland China. Huawei reserves the right to interpret this content.

## Hardware Specifications

The following table lists the hardware specifications of the S5730-SI.

### Hardware specifications of the S5730-48C-SI series

Item		S5730-48C-SI-AC	S5730-48C-PWR-SI-AC
Physical specifications	Chassis dimensions (W x D x H, mm)	442 x 420 x 44.4	442 x 420 x 44.4
	Chassis height	1 U	1 U
	Chassis weight (full configuration weight, including weight of packaging materials)	8.2 kg	8.3 kg

Item		S5730-48C-SI-AC	S5730-48C-PWR-SI-AC
Fixed port	GE port	24	24
	10GE port	8	8
Flexible card	Card slot	1	1
	Card type	4-port 40GE QSFP+ interface card	4-port 40GE QSFP+ interface card
	Card specification	For details about cards, see 0Card Types.	For details about cards, see 0Card Types.
Management port	ETH port	Supported	Supported
	Console port (RJ45)	Supported	Supported
	USB port	USB 2.0	USB 2.0
CPU	Frequency	1 GHz	1 GHz
	Cores	2	2
Storage	Memory (RAM)	1 GB	1 GB
	Flash memory	Hardware: 512 MB, of which 240 MB is available for users	Hardware: 512 MB, of which 240 MB is available for users
Power supply system	Power supply type	<ul style="list-style-type: none"> <li>150 W AC (pluggable)</li> <li>150 W DC (pluggable)</li> </ul>	<ul style="list-style-type: none"> <li>500 W AC</li> <li>650 W DC (pluggable)</li> </ul>
	Power supply specification	For details about power supplies, see the section Power Supply.	For details about power supplies, see the section Power Supply.
	Rated voltage range	<ul style="list-style-type: none"> <li>AC: 100 V AC to 240 V AC; 50/60 Hz</li> <li>DC: -48 V DC to -60 V DC</li> </ul>	<ul style="list-style-type: none"> <li>AC: 100 V AC to 240 V AC; 50/60 Hz</li> <li>DC: -48 V DC to -60 V DC</li> </ul>
	Maximum voltage range	<ul style="list-style-type: none"> <li>AC: 90 V AC to 264 V AC; 47-63 Hz</li> <li>DC: -36 V DC to -72 V DC</li> </ul>	<ul style="list-style-type: none"> <li>AC: 90 V AC to 264 V AC; 47-63 Hz</li> <li>DC: -38.4 V DC to -72 V DC</li> </ul>
	Maximum input current	<ul style="list-style-type: none"> <li>150 W AC: 3 A</li> <li>150 W DC: 6 A</li> </ul>	<ul style="list-style-type: none"> <li>500 W AC: 7 A</li> <li>650 W DC: 20 A</li> </ul>
	Maximum power consumption of the device	62.4 W (without cards)	<ul style="list-style-type: none"> <li>Without PDs and cards: 83.2 W</li> <li>With PDs: 967 W (PoE: 739.2 W)</li> </ul>
	Power consumption in the case of 30% traffic load <sup>1</sup>	39.02 W (without cards)	44.2 W (without cards)
	Power consumption in the case of 100% traffic load <sup>1</sup>	43.18 W (without cards)	48.1 W (without cards)
PoE specification	Maximum PoE power output	NA	<ul style="list-style-type: none"> <li>Single power supply: 369.6 W</li> <li>Dual power supplies: 739.2 W</li> </ul>
	Number of PoE+ ports <sup>2</sup>	NA	24
	Maximum number of ports with maximum PoE power (15.4 W)	NA	24

Item		S5730-48C-SI-AC	S5730-48C-PWR-SI-AC
	Maximum number of ports with maximum PoE+ power (30 W)	NA	<ul style="list-style-type: none"> <li>• Single power supply: 12</li> <li>• Dual power supplies: 24</li> </ul>
Heat dissipation system	Heat dissipation mode	Air-cooled heat dissipation and intelligent fan speed adjustment	Air-cooled heat dissipation and intelligent fan speed adjustment
	Number of fan modules	Pluggable dual fans	Pluggable dual fans
	Airflow	Air flows in from the left and right sides as well as the front panel, and exhausts from the rear panel	Air flows in from the left and right sides as well as the front panel, and exhausts from the rear panel
	Maximum heat dissipation of the device (BTU/hour)	<ul style="list-style-type: none"> <li>• 281 (without cards)</li> <li>• 372 (with a 4-port 40GE card)</li> </ul>	<ul style="list-style-type: none"> <li>• Without PDs and cards: 281</li> <li>• With PDs: 3300</li> </ul>
Environment parameters	Long-term operating temperature	<ul style="list-style-type: none"> <li>• 0-1800 m: 0°C to 45°C</li> <li>• 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m.</li> </ul>	<ul style="list-style-type: none"> <li>• 0-1800 m: 0°C to 45°C</li> <li>• 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m.</li> </ul>
	Short-term operating temperature	<ul style="list-style-type: none"> <li>• 0-1800 m: -5°C to +50°C</li> <li>• 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m.</li> </ul> <p><b>NOTE</b> Short term indicates that the successive operating time is no more than 96 hours, the total operating time is no more than 360 hours, or the number of times the operating temperature is over 45°C is no more than 15 in a year.</p>	<ul style="list-style-type: none"> <li>• 0-1800 m: -5°C to +50°C</li> <li>• 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m.</li> </ul> <p><b>NOTE</b> Short term indicates that the successive operating time is no more than 96 hours, the total operating time is no more than 360 hours, or the number of times the operating temperature is over 45°C is no more than 15 in a year.</p>
	Storage temperature	-40°C to +70°C	-40°C to +70°C
	Relative humidity	5%–95% (non-condensing)	5%–95% (non-condensing)
	Operating altitude	<ul style="list-style-type: none"> <li>• AC: 5000 m</li> <li>• DC: 2000 m</li> </ul>	<ul style="list-style-type: none"> <li>• AC: 5000 m</li> <li>• DC: 2000 m</li> </ul>
	Noise under normal temperature (sound power)	59.4 dB(A)	57.4 dB(A)
	Noise under high temperature (sound power)	71.9 dB(A)	69.9 dB(A)
	Noise under normal temperature (sound pressure)	47.3 dB(A)	57.5 dB(A)
	Surge protection specification (RJ45 service port)	±7 kV	±7 kV
	Surge protection specification (power)	<ul style="list-style-type: none"> <li>• AC power interface: ±6 kV in differential or common mode</li> </ul>	<ul style="list-style-type: none"> <li>• AC power interface: ±6 kV in differential or common mode</li> </ul>

Item		S5730-48C-SI-AC	S5730-48C-PWR-SI-AC
	port)	<ul style="list-style-type: none"> <li>DC power interface: <math>\pm 1</math> kV in differential mode; <math>\pm 2</math> kV in common mode</li> </ul>	<ul style="list-style-type: none"> <li>DC power interface: <math>\pm 2</math> kV in differential mode; <math>\pm 4</math> kV in common mode</li> </ul>
Reliability	MTBF (year) <sup>3</sup>	47.83	46.8
	MTTR (hour)	2	2
	Availability	> 0.99999	> 0.99999
Certification		EMC certification Safety certification Manufacturing certification For details about certifications, see the section Safety and Regulatory Compliance.	EMC certification Safety certification Manufacturing certification For details about certifications, see the section Safety and Regulatory Compliance.

#### Hardware specifications of the S5730-68C-SI series

Item		S5730-68C-SI-AC	S5730-68C-PWR-SI-AC	S5730-68C-PWR-SI
Physical specifications	Chassis dimensions (W x D x H, mm)	442 x 420 x 44.4	442 x 420 x 44.4	<ul style="list-style-type: none"> <li>With a 500 W/650 W power supply: 442 x 420 x 44.4</li> <li>With a 1150 W power supply: 442 x 507 x 44.4</li> </ul>
	Chassis height	1 U	1 U	1 U
	Chassis weight (full configuration weight, including weight of packaging materials)	8.47 kg	8.8 kg	8 kg
Fixed port	GE port	48	48	48
	10GE port	4	4	4
Flexible card	Card slot	1	1	1
	Card type	4-port 40GE QSFP+ interface card	4-port 40GE QSFP+ interface card	4-port 40GE QSFP+ interface card
	Card specification	For details about cards, see 0Card Types.	For details about cards, see 0Card Types.	For details about cards, see 0Card Types.
Management port	ETH port	Supported	Supported	Supported
	Console port (RJ45)	Supported	Supported	Supported
	USB port	USB 2.0	USB 2.0	USB 2.0
CPU	Frequency	1 GHz	1 GHz	1 GHz
	Cores	2	2	2
Storage	Memory (RAM)	1 GB	1 GB	1 GB
	Flash memory	Hardware: 512 MB, of which 240 MB is available	Hardware: 512 MB, of which 240 MB is available	Hardware: 512 MB, of which 240 MB is available for users

Item		S5730-68C-SI-AC	S5730-68C-PWR-SI-AC	S5730-68C-PWR-SI
		for users	for users	
Power supply system	Power supply type	<ul style="list-style-type: none"> <li>150 W AC (pluggable)</li> <li>150 W DC (pluggable)</li> </ul>	<ul style="list-style-type: none"> <li>500 W AC</li> <li>650 W DC (pluggable)</li> </ul>	<ul style="list-style-type: none"> <li>1150 W AC (pluggable)</li> <li>500 W AC</li> <li>650 W DC (pluggable)</li> </ul>
	Power supply specification	For details about power supplies, see the section Power Supply.	For details about power supplies, see the section Power Supply.	For details about power supplies, see the section Power Supply.
	Rated voltage range	<ul style="list-style-type: none"> <li>AC: 100 V AC to 240 V AC; 50/60 Hz</li> <li>DC: -48 V DC to -60 V DC</li> </ul>	<ul style="list-style-type: none"> <li>AC: 100 V AC to 240 V AC; 50/60 Hz</li> <li>DC: -48 V DC to -60 V DC</li> </ul>	<ul style="list-style-type: none"> <li>AC: 100 V AC to 240 V AC; 50/60 Hz</li> <li>DC: -48 V DC to -60 V DC</li> </ul>
	Maximum voltage range	<ul style="list-style-type: none"> <li>AC: 90 V AC to 264 V AC; 47-63 Hz</li> <li>DC: -36 V DC to -72 V DC</li> </ul>	<ul style="list-style-type: none"> <li>AC: 90 V AC to 264 V AC; 47-63 Hz</li> <li>DC: -38.4 V DC to -72 V DC</li> </ul>	<ul style="list-style-type: none"> <li>AC: 90 V AC to 264 V AC; 47-63 Hz</li> <li>DC: -38.4 V DC to -72 V DC</li> </ul>
	Maximum input current	<ul style="list-style-type: none"> <li>150 W AC: 3 A</li> <li>150 W DC: 6 A</li> </ul>	<ul style="list-style-type: none"> <li>500 W AC: 7 A</li> <li>650 W DC: 20 A</li> </ul>	<ul style="list-style-type: none"> <li>500 W AC: 7 A</li> <li>650 W DC: 20 A</li> <li>1150 W: 100-240 V, 10 A</li> </ul>
	Maximum power consumption of the device	65.4 W (without cards)	<ul style="list-style-type: none"> <li>Without PDs and cards: 68.3 W</li> <li>500 W AC/650 W DC (with PDs but not cards): 925 W (PoE: 739.2 W)</li> </ul>	<ul style="list-style-type: none"> <li>Without PDs and cards: 68.3 W</li> <li>500 W AC/650 W DC (with PDs but not cards): 925 W (PoE: 739.2 W)</li> <li>1150 W AC (with PDs but not cards): 1733 W (PoE: 1440 W)</li> </ul>
	Power consumption in the case of 30% traffic load <sup>1</sup>	42.3 W (without cards)	50.1 W (without cards)	50.1 W (without cards)
	Power consumption in the case of 100% traffic load <sup>1</sup>	49.86 W (without cards)	56.6 W (without cards)	56.6 W (without cards)
PoE specification	Maximum PoE power output	NA	500 W/650 W: <ul style="list-style-type: none"> <li>Single power supply: 369.6 W</li> <li>Dual power supplies: 739.2 W</li> </ul>	<ul style="list-style-type: none"> <li>500 W/650 W:               <ul style="list-style-type: none"> <li>Single power supply: 369.6 W</li> <li>Dual power supplies: 739.2 W</li> </ul> </li> <li>Dual 1150 W power supplies: 1440 W (220 V input)</li> <li>Dual 1150 W power supplies: 893.2 W (110 V input)</li> </ul>
	Number of PoE+ ports <sup>2</sup>	NA	48	48

Item		S5730-68C-SI-AC	S5730-68C-PWR-SI-AC	S5730-68C-PWR-SI
	Maximum number of ports with maximum PoE power (15.4 W)	NA	500 W AC/650 W DC: <ul style="list-style-type: none"> <li>• Single power supply: 24</li> <li>• Dual power supplies: 48</li> </ul>	<ul style="list-style-type: none"> <li>• 1150 W AC: <ul style="list-style-type: none"> <li>– Single power supply (220 V input): 48</li> <li>– Single power supply (110 V input): 29</li> <li>– Dual power supplies (220 V input): 48</li> <li>– Dual power supplies (110 V input): 48</li> </ul> </li> <li>• 500 W AC/650 W DC: <ul style="list-style-type: none"> <li>– Single power supply: 24</li> <li>– Dual power supplies: 48</li> </ul> </li> </ul>
	Maximum number of ports with maximum PoE+ power (30 W)	NA	500 W AC/650 W DC: <ul style="list-style-type: none"> <li>• Single power supply: 12</li> <li>• Dual power supplies: 24</li> </ul>	<ul style="list-style-type: none"> <li>• 1150 W AC: <ul style="list-style-type: none"> <li>– Single power supply (220 V input): 26</li> <li>– Single power supply (110 V input): 14</li> <li>– Dual power supplies (220 V input): 48</li> <li>– Dual power supplies (110 V input): 29</li> </ul> </li> <li>• 500 W AC/650 W DC: <ul style="list-style-type: none"> <li>– Single power supply: 12</li> <li>– Dual power supplies: 24</li> </ul> </li> </ul>
Heat dissipation system	Heat dissipation mode	Air-cooled heat dissipation and intelligent fan speed adjustment	Air-cooled heat dissipation and intelligent fan speed adjustment	Air-cooled heat dissipation and intelligent fan speed adjustment
	Number of fan modules	Pluggable dual fans	Pluggable dual fans	Pluggable dual fans
	Airflow	Air flows in from the left and right sides as well as the front panel, and exhausts from the rear panel	Air flows in from the left and right sides as well as the front panel, and exhausts from the rear panel	Air flows in from the left and right sides as well as the front panel, and exhausts from the rear panel
	Maximum heat dissipation of the device (BTU/hour)	223 (without cards)	<ul style="list-style-type: none"> <li>• Without PDs and cards: 223</li> <li>• With PDs but not cards: 3156</li> </ul>	<ul style="list-style-type: none"> <li>• Without PDs and cards: 223</li> <li>• 500 W AC/650 W DC (with PDs but not cards): 3156</li> <li>• 1150 W AC (with PDs and cards): 5915</li> </ul>
Environment parameters	Long-term operating temperature	<ul style="list-style-type: none"> <li>• 0-1800 m: 0°C to 45°C</li> <li>• 1800-5000 m: The operating temperature decreases 1°C every</li> </ul>	<ul style="list-style-type: none"> <li>• 0-1800 m: 0°C to 45°C</li> <li>• 1800-5000 m: The operating temperature decreases 1°C every</li> </ul>	<ul style="list-style-type: none"> <li>• 0-1800 m: 0°C to 45°C</li> <li>• 1800-5000 m: The operating temperature decreases 1°C every time</li> </ul>

Item	S5730-68C-SI-AC	S5730-68C-PWR-SI-AC	S5730-68C-PWR-SI
	time the altitude increases 220 m.	time the altitude increases 220 m.	the altitude increases 220 m.
Short-term operating temperature	<ul style="list-style-type: none"> <li>0-1800 m: -5°C to +50°C</li> <li>1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m.</li> </ul> <p><b>NOTE</b> Short term indicates that the successive operating time is no more than 96 hours, the total operating time is no more than 360 hours, or the number of times the operating temperature is over 45°C is no more than 15 in a year.</p>	<ul style="list-style-type: none"> <li>0-1800 m: -5°C to +50°C</li> <li>1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m.</li> </ul> <p><b>NOTE</b> Short term indicates that the successive operating time is no more than 96 hours, the total operating time is no more than 360 hours, or the number of times the operating temperature is over 45°C is no more than 15 in a year.</p>	<ul style="list-style-type: none"> <li>0-1800 m: -5°C to +50°C</li> <li>1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m.</li> </ul> <p><b>NOTE</b> Short term indicates that the successive operating time is no more than 96 hours, the total operating time is no more than 360 hours, or the number of times the operating temperature is over 45°C is no more than 15 in a year.</p>
Storage temperature	-40°C to +70°C	-40°C to +70°C	-40°C to +70°C
Relative humidity	5%–95% (non-condensing)	5%–95% (non-condensing)	5%–95% (non-condensing)
Operating altitude	<ul style="list-style-type: none"> <li>AC: 5000 m</li> <li>DC: 2000 m</li> </ul>	<ul style="list-style-type: none"> <li>AC: 5000 m</li> <li>DC: 5000 m</li> </ul>	<ul style="list-style-type: none"> <li>AC: 5000 m</li> <li>DC: 5000 m</li> </ul>
Noise under normal temperature (sound power)	58.9 dB(A)	57.5 dB(A)	64.3 dB(A)
Noise under high temperature (sound power)	71.1 dB(A)	70.4 dB(A)	70.4 dB(A)
Noise under normal temperature (sound pressure)	46.8 dB(A)	45.4 dB(A)	56.3 dB(A)
Surge protection specification (RJ45 service port)	±7 kV	±7 kV	±7 kV
Surge protection specification (power port)	<ul style="list-style-type: none"> <li>AC power interface: ±6 kV in differential or common mode</li> <li>DC power interface: ±1 kV in differential mode; ±2 kV in common mode</li> </ul>	<ul style="list-style-type: none"> <li>AC power interface: ±6 kV in differential or common mode</li> <li>DC power interface: ±2 kV in differential mode; ±4 kV in common mode</li> </ul>	<ul style="list-style-type: none"> <li>500W AC power interface: ±6 kV in differential or common mode</li> <li>650W DC power interface: ±2 kV in differential mode; ±4 kV in common mode</li> <li>1150W AC power interface: ±2 kV in differential mode; ±4 kV in common mode</li> </ul>

Item		S5730-68C-SI-AC	S5730-68C-PWR-SI-AC	S5730-68C-PWR-SI
Reliability	MTBF (year) <sup>3</sup>	46.53	43.28	43.28
	MTTR (hour)	2	2	2
	Availability	> 0.99999	> 0.99999	> 0.99999
Certification		EMC certification Safety certification Manufacturing certification For details about certifications, see the section Safety and Regulatory Compliance.	EMC certification Safety certification Manufacturing certification For details about certifications, see the section Safety and Regulatory Compliance.	EMC certification Safety certification Manufacturing certification For details about certifications, see the section Safety and Regulatory Compliance.

### NOTE

1: The power consumption under different load conditions is calculated according to the ATIS standard. Additionally, the EEE function is enabled and there is no PoE power output.

2: The number of working PoE+/PoE++ ports depends on the maximum PoE power provided by the device and the maximum power consumption of PDs.

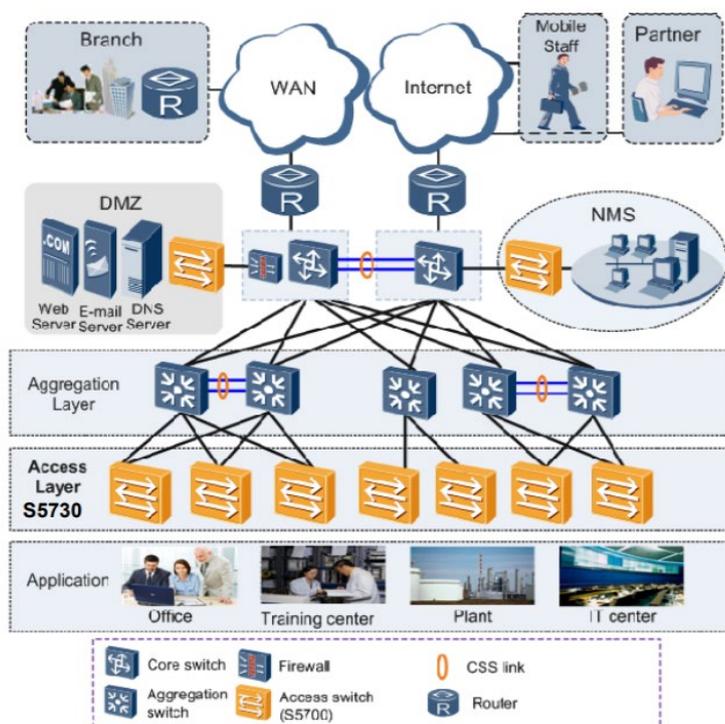
3: The reliability parameter values are calculated based on the typical configuration of the device. The parameter values vary according to the modules configured by the customer.

## Networking and Applications

### Large-sized Enterprise Campus Networks

The S5730-SI provides various terminal security management features, and supports functions such as PoE, voice VLAN, and QoS. The switch can be used for desktop access and provides gigabit access speed.

#### Position of the S5730-SI on a large-sized enterprise campus network



The S5730-SI provides various security features including ARP security, IP security, IP source guard, and user access control policies such as NAC and ACL, to control access of user terminals.

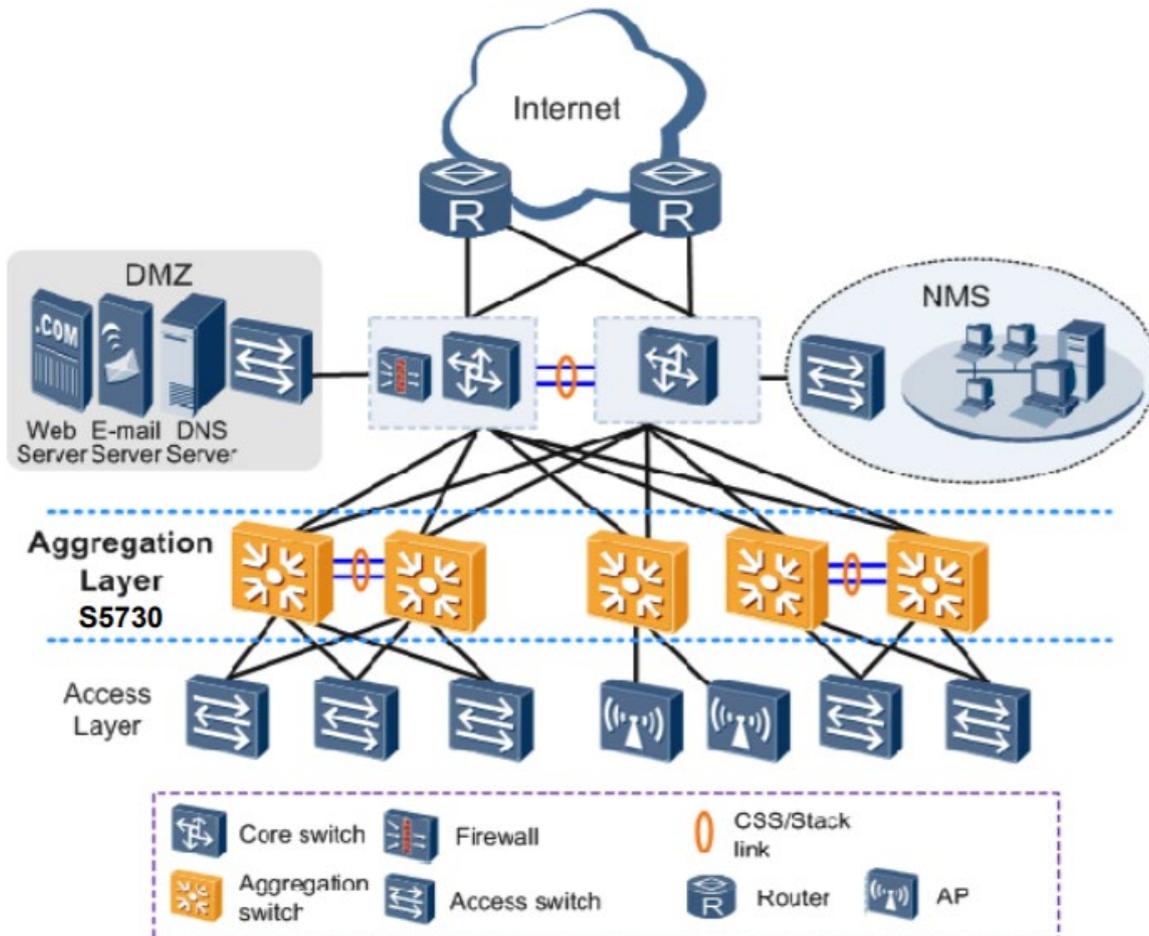
In addition, the switch supports the Link Aggregation Control Protocol (LACP) to provide multi-link access for servers, improving link bandwidth and reliability.

In terms of device management, the S5730-SI provides EasyOperation and USB-based deployment, facilitating device deployment and management.

### Small- and Medium-sized Enterprise Campus Networks

The S5730-SI series switches can be located at the aggregation layer to build a high-performance, reliable enterprise campus network.

Position of the S5730-SI on a small- and medium-sized enterprise campus network

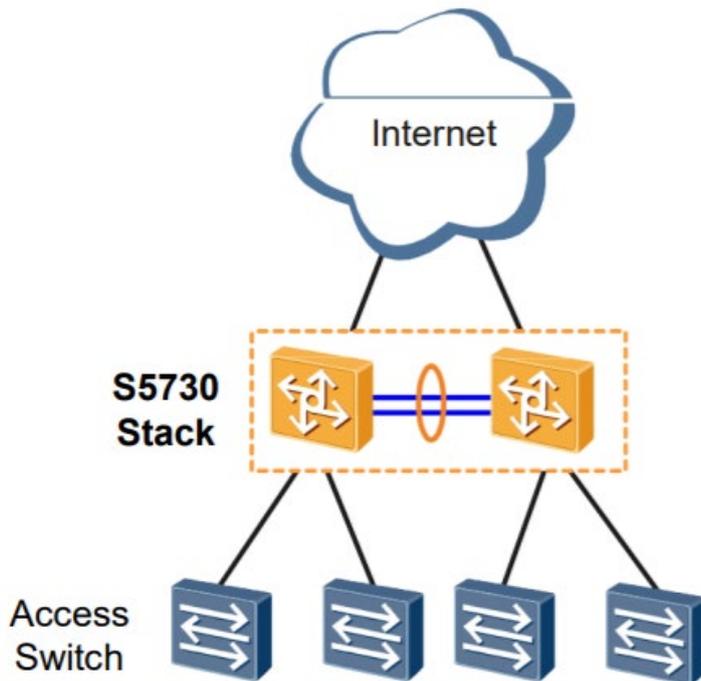


On an enterprise network or a campus network, the S5730-SI series switches connect to access switches through GE or 10GE ports and connect to core switches through 10GE optical ports, providing high performance and large switching capacity. The network provides 10 Gbit/s rate for the backbone layer and 100 Mbit/s access rate for terminals, meeting requirements for high bandwidth and multi-service.

The S5730-SI series switches support SEP and RRPP to implement millisecond-level protection switching. The switches form a stack system by using iStack technology to implement the distributed forwarding structure and fast fault recovery. The stack system increases the number of user interfaces and improves packet processing capability. The member switches can be managed in a uniform manner to facilitate network management and maintenance.

## Small-Sized Enterprise Campus Networks

Position of the S5730-SI on a small-sized enterprise campus network



The S5730-SI series switches provide powerful aggregation and routing capabilities and can be used as core switches on a small-sized enterprise campus network. The S5730-SI series switches use iStack to ensure high reliability. The switches provide various access control policies to achieve centralized user management and simplify configuration.

## Product Accessories

### Optical Modules and Fibers

The S5730-SI supports the following GE and 10GE optical modules:

- GE: 100 m electrical, 500 m optical multi-mode, 10/40/80/100 km optical single-mode, two pairs of bidirectional optical modules (10/40 km)
- 10GE: 100/220/300 m SFP+ multi-mode, 1.4/10/40/80 km optical SFP+
- 40GE: 150/400 m QSFP+ optical multi-mode, 1.4/2/10/40 km optical single-mode

Optical fibers fall into single-mode and multi-mode fibers. Single-mode optical modules use single-mode fibers, and multi-mode optical modules use multi-mode fibers. For a non-BIDI optical module, each optical interface must be configured with a Tx optical fiber and an Rx optical fiber of the same type. For a BIDI optical module, only one optical fiber needs to be configured.

The fibers and optical modules supported by Huawei switches are being updated. For the latest information, visit <http://support.huawei.com/enterprise/en/doc/EDOC1000013597?section=j07w&topicName=pluggable-modules-for-interfaces> or contact your local Huawei sales office.

### Stack Cables

The S5730-SI switches support service port stacking. The applicable stack cables are as follows:

- AOC cable

An active optical network (AOC) cable integrates an optical module and a fiber. The AOC cables are available in SFP-10G-AOC3M and SFP-10G-AOC10M.

- SFP+ high-speed cable

The SFP+ high-speed cable also integrates an optical module and a fiber. The SFP+ high-speed cables are available in SFP-10G-CU1M, SFP-10G-CU3M, SFP-10G-CU5M, and SFP-10G-CU10M.

- QSFP+ high-speed cable

The QSFP+ high-speed cable also integrates an optical module and a fiber. The QSFP+ high-speed cables are available in QSFP-40G-CU1M, QSFP-40G-CU3M, and QSFP-40G-CU5M.

The following table lists the stack cable types and connectors.

Stack cable types and connectors applicable to the S5730-SI series

Stack Cable	Model	Cable Length	Connector
AOC	SFP-10G-AOC3M	3 m	SFP+
	SFP-10G-AOC10M	5 m	SFP+
SFP+ high-speed	SFP-10G-CU1M	1 m	SFP+
	SFP-10G-CU3M	3 m	SFP+
	SFP-10G-CU5M	5 m	SFP+
	SFP-10G-CU10M	10 m	SFP+
QSFP+ high-speed	QSFP-40G-CU1M	1 m	QSFP+
	QSFP-40G-CU3M	3 m	QSFP+
	QSFP-40G-CU5M	5 m	QSFP+

#### NOTE

For more information about stack cables applicable to the S5730-SI series, visit <http://support.huawei.com/enterprise/en/doc/EDOC1000013597?section=j07f&topicName=cables> or contact your local Huawei sales office.

## Safety and Regulatory Compliance

The following table lists the safety and regulatory compliance of the S5730-SI.

Safety and regulatory compliance of the S5730-SI series

Certification Category	Description
Safety	<ul style="list-style-type: none"> <li>• IEC 60950-1</li> <li>• EN 60950-1/A11/A12</li> <li>• UL 60950-1</li> <li>• CSA C22.2 No 60950-1</li> <li>• AS/NZS 60950.1</li> <li>• CNS 14336-1</li> <li>• IEC60825-1</li> <li>• IEC60825-2</li> <li>• EN60825-1</li> <li>• EN60825-2</li> </ul>
Electromagnetic Compatibility (EMC)	<ul style="list-style-type: none"> <li>• CISPR22 Class A</li> <li>• CISPR24</li> <li>• EN55022 Class A</li> <li>• EN55024</li> </ul>

Certification Category	Description
	<ul style="list-style-type: none"> <li>• ETSI EN 300 386 Class A</li> <li>• CFR 47 FCC Part 15 Class A</li> <li>• ICES 003 Class A</li> <li>• AS/NZS CISPR22 Class A</li> <li>• VCCI Class A</li> <li>• IEC61000-4-2</li> <li>• ITU-T K 20</li> <li>• ITU-T K 21</li> <li>• ITU-T K 44</li> <li>• CNS13438</li> </ul>
Environment	<ul style="list-style-type: none"> <li>• RoHS</li> <li>• REACH</li> <li>• WEEE</li> </ul>

 **NOTE**

- EMC: electromagnetic compatibility
- CISPR: International Special Committee on Radio Interference
- EN: European Standard
- ETSI: European Telecommunications Standards Institute
- CFR: Code of Federal Regulations
- FCC: Federal Communication Commission
- IEC: International Electrotechnical Commission
- AS/NZS: Australian/New Zealand Standard
- VCCI: Voluntary Control Council for Interference
- UL: Underwriters Laboratories
- CSA: Canadian Standards Association
- IEEE: Institute of Electrical and Electronics Engineers
- RoHS: restriction of the use of certain hazardous substances
- REACH: Registration Evaluation Authorization and Restriction of Chemicals
- WEEE: Waste Electrical and Electronic Equipment

## MIB and Standards Compliance

### Supported MIBs

The following table lists the MIBs supported by S5730-SI.

MIBs supported by the S5730-SI series

Category	MIB
Public MIB	<ul style="list-style-type: none"> <li>• BRIDGE-MIB</li> <li>• DISMAN-NSLOOKUP-MIB</li> <li>• DISMAN-PING-MIB</li> <li>• DISMAN-TRACEROUTE-MIB</li> <li>• ENTITY-MIB</li> <li>• EtherLike-MIB</li> <li>• IF-MIB</li> </ul>

Category	MIB
	<ul style="list-style-type: none"> <li>• IP-FORWARD-MIB</li> <li>• IPv6-MIB</li> <li>• LAG-MIB</li> <li>• LLDP-EXT-DOT1-MIB</li> <li>• LLDP-EXT-DOT3-MIB</li> <li>• LLDP-MIB</li> <li>• NOTIFICATION-LOG-MIB</li> <li>• NQA-MIB</li> <li>• OSPF-TRAP-MIB</li> <li>• P-BRIDGE-MIB</li> <li>• Q-BRIDGE-MIB</li> <li>• RFC1213-MIB</li> <li>• RIPv2-MIB</li> <li>• RMON2-MIB</li> <li>• RMON-MIB</li> <li>• SAVI-MIB</li> <li>• SNMP-FRAMEWORK-MIB</li> <li>• SNMP-MPD-MIB</li> <li>• SNMP-NOTIFICATION-MIB</li> <li>• SNMP-TARGET-MIB</li> <li>• SNMP-USER-BASED-SM-MIB</li> <li>• SNMPv2-MIB</li> <li>• TCP-MIB</li> <li>• UDP-MIB</li> </ul>
Huawei-proprietary MIB	<ul style="list-style-type: none"> <li>• HUAWEI-AAA-MIB</li> <li>• HUAWEI-ACL-MIB</li> <li>• HUAWEI-ALARM-MIB</li> <li>• HUAWEI-ALARM-RELIABILITY-MIB</li> <li>• HUAWEI-BASE-TRAP-MIB</li> <li>• HUAWEI-BRAS-RADIUS-MIB</li> <li>• HUAWEI-BRAS-SRVCFG-EAP-MIB</li> <li>• HUAWEI-BRAS-SRVCFG-STATICUSER-MIB</li> <li>• HUAWEI-CBQOS-MIB</li> <li>• HUAWEI-CDP-COMPLIANCE-MIB</li> <li>• HUAWEI-CONFIG-MAN-MIB</li> <li>• HUAWEI-CPU-MIB</li> <li>• HUAWEI-DAD-TRAP-MIB</li> <li>• HUAWEI-DC-MIB</li> <li>• HUAWEI-DATASYNC-MIB</li> <li>• HUAWEI-DEVICE-MIB</li> <li>• HUAWEI-DHCPR-MIB</li> <li>• HUAWEI-DHCPS-MIB</li> <li>• HUAWEI-DHCP-SNOOPING-MIB</li> <li>• HUAWEI-DIE-MIB</li> </ul>

Category	MIB
	<ul style="list-style-type: none"> <li>• HUAWEI-DNS-MIB</li> <li>• HUAWEI-DLDP-MIB</li> <li>• HUAWEI-ELMI-MIB</li> <li>• HUAWEI-ERPS-MIB</li> <li>• HUAWEI-ERRORDOWN-MIB</li> <li>• HUAWEI-ENERGYMNGT-MIB</li> <li>• HUAWEI-EASY-OPERATION-MIB</li> <li>• HUAWEI-ENTITY-EXTENT-MIB</li> <li>• HUAWEI-ENTITY-TRAP-MIB</li> <li>• HUAWEI-ETHARP-MIB</li> <li>• HUAWEI-ETHOAM-MIB</li> <li>• HUAWEI-FLASH-MAN-MIB</li> <li>• HUAWEI-FWD-RES-TRAP-MIB</li> <li>• HUAWEI-GARP-APP-MIB</li> <li>• HUAWEI-GTSM-MIB</li> <li>• HUAWEI-HGMP-MIB</li> <li>• HUAWEI-HWTACACS-MIB</li> <li>• HUAWEI-IF-EXT-MIB</li> <li>• HUAWEI-INFOCENTER-MIB</li> <li>• HUAWEI-IPPOOL-MIB</li> <li>• HUAWEI-IPV6-MIB</li> <li>• HUAWEI-ISOLATE-MIB</li> <li>• HUAWEI-L2IF-MIB</li> <li>• HUAWEI-L2MAM-MIB</li> <li>• HUAWEI-L2VLAN-MIB</li> <li>• HUAWEI_LDT-MIB</li> <li>• HUAWEI-LLDP-MIB</li> <li>• HUAWEI-MAC-AUTHEN-MIB</li> <li>• HUAWEI-MEMORY-MIB</li> <li>• HUAWEI-MFF-MIB</li> <li>• HUAWEI-MFLP-MIB</li> <li>• HUAWEI-MSTP-MIB</li> <li>• HUAWEI-MULTICAST-MIB</li> <li>• HUAWEI-NAP-MIB</li> <li>• HUAWEI-NTPV3-MIB</li> <li>• HUAWEI-PERFORMANCE-MIB</li> <li>• HUAWEI-PORT-MIB</li> <li>• HUAWEI-PORTAL-MIB</li> <li>• HUAWEI-QINQ-MIB</li> <li>• HUAWEI-RIPv2-EXT-MIB</li> <li>• HUAWEI-RM-EXT-MIB</li> <li>• HUAWEI-RRPP-MIB</li> <li>• HUAWEI-SECURITY-MIB</li> <li>• HUAWEI-SEP-MIB</li> <li>• HUAWEI-SNMP-EXT-MIB</li> </ul>

Category	MIB
	<ul style="list-style-type: none"> <li>• HUAWEI-SSH-MIB</li> <li>• HUAWEI-STACK-MIB</li> <li>• HUAWEI-SWITCH-L2MAM-EXT-MIB</li> <li>• HUAWEI-SWITCH-SRV-TRAP-MIB</li> <li>• HUAWEI-SYS-MAN-MIB</li> <li>• HUAWEI-TCP-MIB</li> <li>• HUAWEI-TFTPC-MIB</li> <li>• HUAWEI-TRNG-MIB</li> <li>• HUAWEI-XQOS-MIB</li> </ul>

For more information about MIBs supported by the S5730-SI series, visit <https://support.huawei.com/enterprise/en/switches/s5700-pid-6691579?category=reference-guides&subcategory=mib-reference>

## Standard Compliance

The following table lists the standards that the S5730-SI complies with.

### Standard compliance list of the S5730-SI series

Standard Organization	Standard or Protocol
IETF	<ul style="list-style-type: none"> <li>• RFC 768 User Datagram Protocol (UDP)</li> <li>• RFC 792 Internet Control Message Protocol (ICMP)</li> <li>• RFC 793 Transmission Control Protocol (TCP)</li> <li>• RFC 826 Ethernet Address Resolution Protocol (ARP)</li> <li>• RFC 854 Telnet Protocol Specification</li> <li>• RFC 951 Bootstrap Protocol (BOOTP)</li> <li>• RFC 959 File Transfer Protocol (FTP)</li> <li>• RFC 1058 Routing Information Protocol (RIP)</li> <li>• RFC 1112 Host extensions for IP multicasting</li> <li>• RFC 1157 A Simple Network Management Protocol (SNMP)</li> <li>• RFC 1256 ICMP Router Discovery</li> <li>• RFC 1305 Network Time Protocol Version 3 (NTP)</li> <li>• RFC 1349 Internet Protocol (IP)</li> <li>• RFC 1493 Definitions of Managed Objects for Bridges</li> <li>• RFC 1542 Clarifications and Extensions for the Bootstrap Protocol</li> <li>• RFC 1643 Ethernet Interface MIB</li> <li>• RFC 1757 Remote Network Monitoring (RMON)</li> <li>• RFC 1901 Introduction to Community-based SNMPv2</li> <li>• RFC 1902-1907 SNMP v2</li> <li>• RFC 1981 Path MTU Discovery for IP version 6</li> <li>• RFC 2131 Dynamic Host Configuration Protocol (DHCP)</li> <li>• RFC 2328 OSPF Version 2</li> <li>• RFC 2453 RIP Version 2</li> <li>• RFC 2460 Internet Protocol, Version 6 Specification (IPv6)</li> <li>• RFC 2461 Neighbor Discovery for IP Version 6 (IPv6)</li> <li>• RFC 2462 IPv6 Stateless Address Auto configuration</li> <li>• RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6)</li> </ul>

Standard Organization	Standard or Protocol
	<ul style="list-style-type: none"> <li>• RFC 2474 Differentiated Services Field (DS Field)</li> <li>• RFC 2740 OSPF for IPv6 (OSPFv3)</li> <li>• RFC 2863 The Interfaces Group MIB</li> <li>• RFC 2597 Assured Forwarding PHB Group</li> <li>• RFC 2598 An Expedited Forwarding PHB</li> <li>• RFC 2571 SNMP Management Frameworks</li> <li>• RFC 2865 Remote Authentication Dial In User Service (RADIUS)</li> <li>• RFC 3046 DHCP Option82</li> <li>• RFC 3376 Internet Group Management Protocol, Version 3 (IGMPv3)</li> <li>• RFC 3513 IP Version 6 Addressing Architecture</li> <li>• RFC 3579 RADIUS Support For EAP</li> <li>• RFC 4271 A Border Gateway Protocol 4 (BGP-4)</li> <li>• RFC 4760 Multiprotocol Extensions for BGP-4</li> <li>• draft-grant-tacacs-02 TACACS+</li> </ul>
IEEE	<ul style="list-style-type: none"> <li>• IEEE 802.1D Media Access Control (MAC) Bridges</li> <li>• IEEE 802.1p Virtual Bridged Local Area Networks</li> <li>• IEEE 802.1Q Virtual Bridged Local Area Networks</li> <li>• IEEE 802.1ad Provider Bridges</li> <li>• IEEE 802.2 Logical Link Control</li> <li>• IEEE Std 802.3 CSMA/CD</li> <li>• IEEE Std 802.3ab 1000BASE-T specification</li> <li>• IEEE Std 802.3ad Aggregation of Multiple Link Segments</li> <li>• IEEE Std 802.3ae 10GE WEN/LAN Standard</li> <li>• IEEE Std 802.3x Full Duplex and flow control</li> <li>• IEEE Std 802.3z Gigabit Ethernet Standard</li> <li>• IEEE802.1ax/IEEE802.3ad Link Aggregation</li> <li>• IEEE 802.3ah Ethernet in the First Mile.</li> <li>• IEEE 802.1ag Connectivity Fault Management</li> <li>• IEEE 802.1ab Link Layer Discovery Protocol</li> <li>• IEEE 802.1D Spanning Tree Protocol</li> <li>• IEEE 802.1w Rapid Spanning Tree Protocol</li> <li>• IEEE 802.1s Multiple Spanning Tree Protocol</li> <li>• IEEE802.1x Port based network access control protocol</li> <li>• IEEE802.3af DTE Power via MIDI</li> <li>• IEEE802.3at DTE Power via the MDI Enhancements</li> </ul>
ITU	<ul style="list-style-type: none"> <li>• ITU SG13 Y.17ethoam</li> <li>• ITU SG13 QoS control Ethernet-Based IP Access</li> <li>• ITU-T Y.1731 ETH OAM performance monitor</li> </ul>
ISO	<ul style="list-style-type: none"> <li>• ISO 10589 IS-IS Routing Protocol</li> </ul>
MEF	<ul style="list-style-type: none"> <li>• MEF 2 Requirements and Framework for Ethernet Service Protection</li> <li>• MEF 9 Abstract Test Suite for Ethernet Services at the UNI</li> <li>• MEF 10.2 Ethernet Services Attributes Phase 2</li> <li>• MEF 11 UNI Requirements and Framework</li> </ul>

Standard Organization	Standard or Protocol
	<ul style="list-style-type: none"> <li>MEF 13 UNI Type 1 Implementation Agreement</li> <li>MEF 15 Requirements for Management of Metro Ethernet Phase 1 Network Elements</li> <li>MEF 17 Service OAM Framework and Requirements</li> <li>MEF 20 UNI Type 2 Implementation Agreement</li> <li>MEF 23 Class of Service Phase 1 Implementation Agreement</li> <li>Xmodem XMODEM/YMODEM Protocol Reference</li> </ul>

#### NOTE

The listed standards and protocols are fully or partially supported by Huawei switches. For details, visit <http://e.huawei.com> or contact your local Huawei sales office.

## Ordering Information

The following table lists ordering information of the S5730-SI series switches.

#### Ordering information of the S5730-SI series

Item	Product Description
1	S5730-48C-SI Bundle (24 Ethernet 10/100/1000 ports, 8 10 Gig SFP+, with 1 interface slot, with 150W AC power supply)
2	S5730-48C-PWR-SI Bundle (24 Ethernet 10/100/1000 ports, 8 10 Gig SFP+, PoE+, with 1 interface slot, with 500W AC power supply)
3	S5730-68C-SI Bundle (48 Ethernet 10/100/1000 ports, 4 10 Gig SFP+, with 1 interface slot, with 150W AC power supply)
4	S5730-68C-PWR-SI Bundle (48 Ethernet 10/100/1000 ports, 4 10 Gig SFP+, PoE+, with 1 interface slot, with 500W AC power supply)
5	S5730-68C-PWR-SI (48 Ethernet 10/100/1000 ports, 4 10 Gig SFP+, PoE+, with 1 interface slot, without power module)
6	4-port 40GE QSFP+ interface card
7	150W AC Power Module (Black)
8	150W DC Power Module (Black)
9	500W AC PoE Power Module (Black, Power panel side exhaust)
10	650W DC PoE Power Module (Black, Power panel side exhaust)
11	1150W AC PoE Power Module
12	1000W AC PoE Power Module

## More Information

For more information about Huawei Campus Switches, visit <http://e.huawei.com> or contact us in the following ways:

- Global service hotline: <http://e.huawei.com/en/service-hotline>
- Logging in to the Huawei Enterprise technical support website: <http://support.huawei.com/enterprise/>
- Sending an email to the customer service mailbox: [support\\_e@huawei.com](mailto:support_e@huawei.com)

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