

S5730-HI Series Next-Generation Gigabit Agile Switches

The recently developed S5730-HI series switches are Huawei's next-generation agile switches that provide all-gigabit access and 10GE uplink ports and come with extended slots for expansion of uplink ports.

Introduction

Huawei S5730-HI series Gigabit Ethernet switches are next-generation agile switches that provide fixed all-gigabit access and 10GE uplink ports and come with one or two slots for expansion of uplink ports.

The S5730-HI series switches build on Huawei Versatile Routing Platform (VRP) to implement SDN functionality and enable service change on demand. With services and network convergence as the core, the switches provide the free mobility function to ensure consistent user experience.

The S5730-HI series switches support Super Virtual Fabric (SVF) that virtualizes the entire network into a single device for management. Additionally, the switches support flexible Ethernet networking, comprehensive VPN tunnel solutions, various security control methods, intelligent deployment, and simple operations & maintenance (O&M).

The S5730-HI series switches are the best choices for the access or aggregation layer of medium- or large-sized campus networks, and the core layer of branch or small-sized campus networks.

Product Overview

Models and Appearances

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

Models and appearances of the S5730-HI series

Appearance	Description
 S5730-36C-HI	<ul style="list-style-type: none"> • 24 10/100/1000BASE-T Ethernet ports, 4 10 Gig SFP+ ports • One extended slot • 1+1 power backup, with AC, DC, or AC+DC power supply • Switching capacity: 758 Gbit/s
 S5730-36C-PWH-HI	<ul style="list-style-type: none"> • 24 10/100/1000BASE-T Ethernet ports, 4 10 Gig SFP+ ports • One extended slot • 1+1 power backup, with AC, DC, or AC+DC power supply • PoE++ • Switching capacity: 758 Gbit/s

Appearance	Description
 <p>S5730-44C-HI</p>	<ul style="list-style-type: none"> • 24 10/100/1000BASE-T Ethernet ports, 4 10 Gig SFP+ ports • Two extended slots (one is reserved for future use) • 1+1 power backup, with AC, DC, or AC+DC power supply • Switching capacity: 758 Gbit/s
 <p>S5730-44C-PWH-HI</p>	<ul style="list-style-type: none"> • 24 10/100/1000BASE-T Ethernet ports, 4 10 Gig SFP+ ports • Two extended slots (one is reserved for future use) • 1+1 power backup, with AC, DC, or AC+DC power supply • PoE++ • Switching capacity: 758 Gbit/s
 <p>S5730-60C-HI</p>	<ul style="list-style-type: none"> • 48 10/100/1000BASE-T Ethernet ports, 4 10 Gig SFP+ ports • One extended slot • 1+1 power backup, with AC, DC, or AC+DC power supply • Switching capacity: 758 Gbit/s
 <p>S5730-60C-PWH-HI</p>	<ul style="list-style-type: none"> • 48 10/100/1000BASE-T Ethernet ports, 4 10 Gig SFP+ ports • One extended slot • 1+1 power backup, with AC, DC, or AC+DC power supply • PoE++ • Switching capacity: 758 Gbit/s
 <p>S5730-68C-HI</p>	<ul style="list-style-type: none"> • 48 10/100/1000BASE-T Ethernet ports, 4 10 Gig SFP+ ports • Two extended slots (one is reserved for future use) • 1+1 power backup, with AC, DC, or AC+DC power supply • Switching capacity: 758 Gbit/s
 <p>S5730-68C-PWH-HI</p>	<ul style="list-style-type: none"> • 48 10/100/1000BASE-T Ethernet ports, 4 10 Gig SFP+ ports • Two extended slots (one is reserved for future use) • 1+1 power backup, with AC, DC, or AC+DC power supply • PoE++ • Switching capacity: 758 Gbit/s

Card Types

The S5730-HI provides one or two slots for ES5D21X08T00 (8-port 10GBASE-T RJ45 rear interface card), ES5D21X08S00 (8-port 10GE SFP+ rear optical interface card) or ES5D21Q02Q00 (2-port 40GE QSFP+ rear interface card) for upstream connections.

ES5D21X08T00 (8-Port 10GBASE-T RJ45 Rear Interface Card)

The ES5D21X08T00 provides eight 10GBASE-T RJ45 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. This card can be installed only in slot 1 of the switch models with dual slots.

Technical specifications of the ES5D21X08T00

Card Model	Technical Specifications	Applied Switch Model
	<ul style="list-style-type: none"> • Physical specifications: <ul style="list-style-type: none"> – 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: 0.26 kg (0.57 lb) 	<ul style="list-style-type: none"> • S5730-36C-HI • S5730-44C-HI (with the card installed only in slot 1) • S5730-36C-PWH-HI

Card Model	Technical Specifications	Applied Switch Model
ES5D21X08T00	<ul style="list-style-type: none"> - Maximum power consumption: 22.1 W • Environment parameters: <ul style="list-style-type: none"> - 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) 	<ul style="list-style-type: none"> • S5730-44C-PWH-HI (with the card installed only in slot 1) • S5730-60C-HI • S5730-68C-HI (with the card installed only in slot 1) • S5730-60C-PWH-HI • S5730-68C-PWH-HI (with the card installed only in slot 1)

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 ES5D21X08T00

Function and Feature	Description
Basic function	Provides eight 10GE RJ45 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.

ES5D21X08S00 (8-Port 10GE SFP+ Rear Optical Interface Card)

The ES5D21X08S00 provides eight 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. This card can be installed only in slot 1 of the switch models with dual slots.

Technical specifications of the ES5D21X08S00

Card Model	Technical Specifications	Applied Switch Model
 ES5D21X08S00	<ul style="list-style-type: none"> • Physical specifications: <ul style="list-style-type: none"> - 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: 0.26 kg (0.57 lb) - Maximum power consumption: 35.8 W • Environment parameters: <ul style="list-style-type: none"> - 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) 	<ul style="list-style-type: none"> • S5730-36C-HI • S5730-44C-HI (with the card installed only in slot 1) • S5730-36C-PWH-HI • S5730-44C-PWH-HI (with the card installed only in slot 1) • S5730-60C-HI • S5730-68C-HI (with the card installed only in slot 1) • S5730-60C-PWH-HI • S5730-68C-PWH-HI (with the card installed only in slot 1)

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 ES5D21X08S00

Function and Feature	Description
Basic function	Provides eight 10GE SFP+ optical ports for data access and line-rate switching.
Hot swap	Supported

ES5D21Q02Q00 (2-Port 40 Gig QSFP+ Rear Interface Card)

The ES5D21Q02Q00 provides two 40GE QSFP+ 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. This card can be installed only in slot 1 of the switch models with dual slots.

Technical specifications of the ES5D21Q02Q00

Card Model	Technical Specifications	Applied Switch Model
 ES5D21Q02Q00	<ul style="list-style-type: none"> Physical specifications: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Operating temperature: 0°C to 45°C (32°F to 113°F) Relative humidity: 5% to 95% Storage temperature: -40°C to +70°C (-40°F to +158°F) 	<ul style="list-style-type: none"> S5730-36C-HI S5730-44C-HI (with the card installed only in slot 1) S5730-36C-PWH-HI S5730-44C-PWH-HI (with the card installed only in slot 1) S5730-60C-HI S5730-68C-HI (with the card installed only in slot 1) S5730-60C-PWH-HI S5730-68C-PWH-HI (with the card installed only in slot 1)

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 ES5D21Q02Q00

Function and Feature	Description
Basic function	Provides two 40GE QSFP+ optical ports for data access and line-rate switching. Each 40GE port can be split into four 10GE ports.
Hot swap	Supported
Service port stacking	Ports on the card can be used as stack ports. NOTE A 40GE port cannot be used as a stack port after it is split into four 10GE ports.

Fan Module

The following table lists the fan module applicable to the S5730-HI.

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

Fan Module	Technical Specifications	Applied Switch Model
 FAN-028A-B	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> S5730-36C-HI S5730-36C-PWH-HI S5730-60C-HI S5730-60C-PWH-HI NOTE The S5730-44C/68C-HI series switches (including PoE and non-PoE models) have a built-in heat dissipation system. Customers do not need to purchase an additional fan

Fan Module	Technical Specifications	Applied Switch Model
		module.

Power Supply

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

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

Power Module	Technical Specifications	Applied Switch Model
 <p>ES0W2PSA0150</p>	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • S5730-36C-HI • S5730-44C-HI • S5730-60C-HI • S5730-68C-HI
 <p>ES0W2PSD0150</p>	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • S5730-36C-HI • S5730-44C-HI • S5730-60C-HI • S5730-68C-HI
 <p>PAC-500WA-BE</p>	<ul style="list-style-type: none"> • 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 AC, 47 Hz to 63 Hz • Maximum input current: 7 A to 3.5 A • Maximum output current: <ul style="list-style-type: none"> - +12 V: 10 A - -53.5 V: 7.11 A • Maximum output power: <ul style="list-style-type: none"> - +12 V: 120 W - -53.5 V: 380 W • Hot swap: Supported 	<ul style="list-style-type: none"> • S5730-36C-PWH-HI • S5730-44C-PWH-HI • S5730-60C-PWH-HI • S5730-68C-PWH-HI

Power Module	Technical Specifications	Applied Switch Model
 <p>PDC-650WA-BE</p>	<ul style="list-style-type: none"> • 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: 0.83 kg (1.83 lb) • Rated input voltage range: -48 V DC to -60 V DC • Maximum input voltage range: -38.4 V DC to -72 V DC • Maximum input current: 20 A • Maximum output current: <ul style="list-style-type: none"> - +12 V: 22.5 A - -53.5 V: 7.11 A • Maximum output power: <ul style="list-style-type: none"> - PoE power: 380 W - Total power: 650 W • Hot swap: Supported 	<ul style="list-style-type: none"> • S5730-36C-PWH-HI • S5730-44C-PWH-HI • S5730-60C-PWH-HI • S5730-68C-PWH-HI
 <p>PAC1000D5412</p>	<ul style="list-style-type: none"> • 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.) • Weight: 1.1 kg (2.43 lb) • Rated input voltage range: 100 V AC to 240 V AC, 50/60 Hz • Maximum input voltage range: 90 V AC to 290 V AC, 47 Hz to 63 Hz • Input current: <ul style="list-style-type: none"> - 100 V AC to 130 V AC: 12 A - 200 V AC to 240 V AC: 6 A • Maximum output current: <ul style="list-style-type: none"> - +12 V: 20.84 A - -53.5 V: 14.58 A • Maximum output power: <ul style="list-style-type: none"> - PoE: 754.6 W - Total: 1000 W • Hot swap: Supported 	<ul style="list-style-type: none"> • S5730-36C-PWH-HI • S5730-44C-PWH-HI • S5730-60C-PWH-HI • S5730-68C-PWH-HI
 <p>W2PSA1150</p>	<ul style="list-style-type: none"> • 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.) • Weight: < 1.6 kg (3.53 lb) • Rated input voltage range: 100 V AC to 240 V AC, 50/60 Hz • Maximum input voltage range: 90 V AC to 290 V AC, 45 Hz to 65 Hz • Input current: 10 A • Maximum output current: <ul style="list-style-type: none"> - +12 V: 29.17 A - -53.5 V: 14.95 A • Maximum output power: <ul style="list-style-type: none"> - PoE power: 800 W (220 V)/450 W (110 V) - Total power: 1150 W (220 V)/800 W (110 V) • Hot swap: Supported 	<ul style="list-style-type: none"> • S5730-36C-PWH-HI • S5730-44C-PWH-HI • S5730-60C-PWH-HI • S5730-68C-PWH-HI

Power Module	Technical Specifications	Applied Switch Model
 <p>PAC1000D5412</p>	<ul style="list-style-type: none"> • 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.) • Weight: 1.1 kg (2.43 lb) • Rated input voltage range: 100 V AC to 240 V AC, 50/60 Hz • Maximum input voltage range: 90 V AC to 290 V AC, 47 Hz to 63 Hz • Input current: <ul style="list-style-type: none"> – 100 V AC to 130 V AC: 12 A – 200 V AC to 240 V AC: 6 A • Maximum output current: <ul style="list-style-type: none"> – +12 V: 20.84 A – -53.5 V: 14.58 A • Maximum output power: <ul style="list-style-type: none"> – PoE: 754.6 W – Total: 1000 W • Hot swap: Supported 	<ul style="list-style-type: none"> • S5730-36C-PWH-HI • S5730-44C-PWH-HI • S5730-60C-PWH-HI • S5730-68C-PWH-HI

NOTE

The S5730-HI has no power supplies by default. Customers can purchase one or two AC/DC power supplies when or after purchasing the switch.

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

Dual-Power (Non-PoE)

Dual-power models (non-PoE) use pluggable power supplies and provide two power slots. 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.

Power supply options supported by the S5730-HI series

Model	Power Supply 1	Power Supply 2
S5730-36C-HI	ES0W2PSA0150 (150 W-AC) or ES0W2PSD0150 (150 W-DC)	ES0W2PSA0150 (150 W-AC) or ES0W2PSD0150 (150 W-DC)
S5730-44C-HI	ES0W2PSA0150 (150 W-AC) or ES0W2PSD0150 (150 W-DC)	ES0W2PSA0150 (150 W-AC) or ES0W2PSD0150 (150 W-DC)
S5730-60C-HI	ES0W2PSA0150 (150 W-AC) or ES0W2PSD0150 (150 W-DC)	ES0W2PSA0150 (150 W-AC) or ES0W2PSD0150 (150 W-DC)
S5730-68C-HI	ES0W2PSA0150 (150 W-AC) or ES0W2PSD0150 (150 W-DC)	ES0W2PSA0150 (150 W-AC) or ES0W2PSD0150 (150 W-DC)

PoE/PoE+

PWH in the model name indicates a PoE-capable switch, which supports IEEE 802.3af-compliant PoE, 802.3at-compliant PoE+, and 802.3bt-compliant PoE++. Each port delivers 15.4 W PoE, 30 W PoE+, or 60 W PoE++ power capacity. Each PoE-capable S5730-HI switch has two power slots for pluggable PoE power supplies.

Power supply options supported by the PoE-capable S5730-HI series

Model	Power Supply 1	Power Supply 2	PoE Power Supply	Number of PoE Ports
S5730-36C-PWH-	500 W/600 W	-	369.6 W	• PoE (15.4 W): 24

Model	Power Supply 1	Power Supply 2	PoE Power Supply	Number of PoE Ports
HI				<ul style="list-style-type: none"> PoE+ (30 W): 12 PoE++ (60 W): 6
	500 W/600 W	500 W/600 W	739.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 12
	1000 W (220 V)	-	754.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 12
	1000 W (220 V)	1000 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 24
	1000 W (110 V)	-	754.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 12
	1000 W (110 V)	1000 W (110 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 24
	1000 W (220 V)	1150 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 24
	1150 W (220 V)	1000 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 24
	1000 W (110 V)	1150 W (110 V)	893.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 14
	1150 W (110 V)	1000 W (110 V)	893.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 14
	1150 W (220 V)	-	785.4 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 13
	1150 W (220 V)	1150 W (220 V)	1440W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 24
	1150 W (110 V)	-	446.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 14 PoE++ (60 W): 7
	1150 W (110 V)	1150 W (110 V)	893.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 14

Model	Power Supply 1	Power Supply 2	PoE Power Supply	Number of PoE Ports
S5730-44C-PWH-HI	500 W	-	369.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 12 PoE++ (60 W): 6
	500 W	500 W	739.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 12
	650 W	-	350 W	<ul style="list-style-type: none"> PoE (15.4 W): 22 PoE+ (30 W): 11 PoE++ (60 W): 5
	650 W	500 W/650 W	700 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 23 PoE++ (60 W): 11
	500 W/650 W	650 W		
	1000 W (220 V)	-	754.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 12
	1000 W (220 V)	1000 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 24
	1000 W (110 V)	-	754.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 12
	1000 W (110 V)	1000 W (110 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 24
	1000 W (220 V)	1150 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 24
	1150 W (220 V)	1000 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 24
	1000 W (110 V)	1150 W (110 V)	893.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 14
	1150 W (110 V)	1000 W (110 V)	893.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 14
	1150 W (220 V)	-	785.4 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 13
	1150 W (220 V)	1150 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 24

Model	Power Supply 1	Power Supply 2	PoE Power Supply	Number of PoE Ports
				<ul style="list-style-type: none"> PoE+ (30 W): 24 PoE++ (60 W): 24
	1150 W (110 V)	-	446.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 14 PoE++ (60 W): 7
	1150 W (110 V)	1150 W (110 V)	893.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 24 PoE++ (60 W): 14
S5730-60C-PWH-HI	500 W/600 W	-	369.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 12 PoE++ (60 W): 6
	500 W/600 W	500 W/600 W	739.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 24 PoE++ (60 W): 12
	1000 W (220 V)	-	754.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 25 PoE++ (60 W): 12
	1000 W (220 V)	1000 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 48 PoE++ (60 W): 24
	1000 W (110 V)	-	754.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 25 PoE++ (60 W): 12
	1000 W (110 V)	1000 W (110 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 48 PoE++ (60 W): 24
	1000 W (220 V)	1150 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 48 PoE++ (60 W): 24
	1150 W (220 V)	1000 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 48 PoE++ (60 W): 24
	1000 W (110 V)	1150 W (110 V)	893.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 29 PoE++ (60 W): 14
	1150 W (110 V)	1000 W (110 V)	893.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 29 PoE++ (60 W): 14
	1150 W (220 V)	-	785.4 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 26 PoE++ (60 W): 13

Model	Power Supply 1	Power Supply 2	PoE Power Supply	Number of PoE Ports
	1150 W (220 V)	1150 W (220 V)	1440W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 48 PoE++ (60 W): 24
	1150 W (110 V)	-	446.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 29 PoE+ (30 W): 14 PoE++ (60 W): 7
	1150 W (110 V)	1150 W (110 V)	893.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 29 PoE++ (60 W): 14
S5730-68C-PWH-HI	500 W	-	369.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 24 PoE+ (30 W): 12 PoE++ (60 W): 6
	500 W	500 W	739.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 24 PoE++ (60 W): 12
	650 W	-	350 W	<ul style="list-style-type: none"> PoE (15.4 W): 22 PoE+ (30 W): 11 PoE++ (60 W): 5
	650 W	500 W/650 W	700 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 23 PoE++ (60 W): 11
	500 W/650 W	650 W		
	1000 W (220 V)	-	754.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 25 PoE++ (60 W): 12
	1000 W (220 V)	1000 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 48 PoE++ (60 W): 24
	1000 W (110 V)	-	754.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 25 PoE++ (60 W): 12
	1000 W (110 V)	1000 W (110 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 48 PoE++ (60 W): 24
	1000 W (220 V)	1150 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 48 PoE++ (60 W): 24
	1150 W (220 V)	1000 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 48 PoE++ (60 W): 24
	1000 W (110 V)	1150 W (110 V)	893.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 48

Model	Power Supply 1	Power Supply 2	PoE Power Supply	Number of PoE Ports
				<ul style="list-style-type: none"> PoE+ (30 W): 29 PoE++ (60 W): 14
	1150 W (110 V)	1000 W (110 V)	893.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 29 PoE++ (60 W): 14
	1150 W (220 V)	-	785.4 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 26 PoE++ (60 W): 13
	1150 W (220 V)	1150 W (220 V)	1440 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 48 PoE++ (60 W): 24
	1150 W (110 V)	-	446.6 W	<ul style="list-style-type: none"> PoE (15.4 W): 29 PoE+ (30 W): 14 PoE++ (60 W): 7
	1150 W (110 V)	1150 W (110 V)	893.2 W	<ul style="list-style-type: none"> PoE (15.4 W): 48 PoE+ (30 W): 29 PoE++ (60 W): 14

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).

Product Features and Highlights

Enabling Networks to Be More Agile for Services

- The S5730-HI delivers flexible packet processing and traffic control capabilities to meet current and future service requirements, helping build a highly scalable network.
- In addition to capabilities of traditional switches, the S5730-HI provides open interfaces and supports user-defined forwarding behavior. Enterprises can use the open interfaces to develop new protocols and functions independently or jointly with equipment vendors to build campus networks meeting their own needs.

Delivering Abundant Services More Agilely

- The S5730-HI integrates the AC function, so customers do not need to buy independent AC devices or hardware components. An S5730-HI switch can manage a maximum of 1K APs, adapting to the fast growth of wireless services.
- With the unified user management function, the S5730-HI authenticates both wired and wireless users, ensuring a consistent user experience irrespective of the access terminals. The unified user management function supports various authentication methods, including 802.1X, MAC address, and Portal authentication, and is capable of managing users based on user groups, domains, and time ranges. These functions visualize user and service management and boost the transformation from device-centric management to user-centric management.
- The S5730-HI provides excellent quality of service (QoS) capabilities and supports queue scheduling and congestion control algorithms. Additionally, it adopts innovative priority queuing and multi-level scheduling mechanisms to implement fine-grained scheduling of data flows, meeting service quality requirements of different user terminals and services.

Providing Refined Network Management More Agilely

- The S5730-HI uses the Packet Conservation Algorithm for Internet (iPCA) technology that changes the traditional method of using simulated traffic for fault location. iPCA technology can monitor network quality for any service flow anywhere and

anytime, without extra costs. It can detect temporary service interruptions in a very short time and can identify faulty ports accurately. This cutting-edge fault detection technology turns "extensive management" to "refined management."

- The S5730-HI supports Two-Way Active Measurement Protocol (TWAMP) to accurately check any IP link and obtain the entire network's IP performance. This protocol eliminates the need of using a dedicated probe or a proprietary protocol.
- The S5730-HI supports SVF and functions as a parent switch. With this virtualization technology, a physical network with the "Small-sized core/aggregation switches + Access switches + APs" structure can be virtualized into a "super switch", offering the industry's simplest network management solution.
- With the EasyDeploy function, the S5730-HI manages access switches in a similar way that an AC manages APs. In deployment, access switches and APs can go online with zero-touch configuration. In the EasyDeploy solution, the Commander collects topology information about the connected clients and stores the clients' startup information based on the topology. Clients can be replaced with zero-touch configuration. The Commander can deliver configurations and scripts to clients in batches and query the delivery results. In addition, the Commander can collect and display information about power consumption on the entire network.

Comprehensive VPN Technologies

- The S5730-HI supports the MPLS function, and can be used as access devices of high-quality enterprise leased line. The S5730-HI allows users in different VPNs to connect to the same switch and isolates users through multi-instance routing. Users in multiple VPNs connect to a provider edge (PE) device through the same physical port on the switch, which reduces the cost on VPN network deployment.

Flexible Ethernet Networking

- In addition to traditional Spanning Tree Protocol (STP), Rapid Spanning Tree Protocol (RSTP), and Multiple Spanning Tree Protocol (MSTP), the S5730-HI 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-HI supports Smart Link and Virtual Router Redundancy Protocol (VRRP), which implement backup of uplinks. One S5730-HI switch can connect to multiple aggregation switches through multiple links, significantly improving reliability of access devices.
- The S5730-HI has large table sizes and 512 MB buffer, coping with the fast growth of data volume in the big data era. With the support for 256K MAC addresses, 512K FIB entries, the S5730-HI meets the requirements of educational networks and metro area networks and allows the access of a large number of terminals. The S5730-HI is the best choice in cloud computing era.

Various Security Control Methods

- The S5730-HI supports 802.1X authentication, MAC address authentication, Portal authentication, and hybrid authentication, and can dynamically deliver user policies such as VLANs, QoS policies, and access control lists (ACLs). It also supports user management based on user groups.
- The S5730-HI 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-HI 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-HI supports strict ARP learning, which prevents ARP spoofing attackers from exhausting ARP entries.

Mature IPv6 Features

- The S5730-HI is developed based on the mature, stable VRP and supports IPv4/IPv6 dual stacks, IPv6 routing protocols (RIPng, OSPFv3, BGP4+, and IS-IS for IPv6). With these IPv6 features, the S5730-HI can be deployed on a pure IPv4 network, a pure IPv6 network, or a shared IPv4/IPv6 network, helping achieve IPv4-to-IPv6 transition.

Intelligent Stack (iStack)

- The S5730-HI supports the iStack function that combines multiple switches into a 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, up to nine physical switches can be 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.

PoE++ Power Supply

- The S5730-HI series PoE switches provide a maximum of 60 W PoE output power on a single interface, and can provide power for high-power terminals such as APs and surveillance cameras. This solves the problem of power supply in specific scenarios.

NOTE

For more information about PoE, visit

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

Perpetual PoE

- When a PoE switch is rebooted after 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.

Fast PoE

- PoE 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.

VXLAN Features

- VXLAN is used to construct a Unified Virtual Fabric (UVF). As such, multiple service networks or tenant networks can be deployed on the same physical network, and service and tenant networks are isolated from each other. This capability truly achieves 'one network for multiple purposes'. The resulting benefits include enabling data transmission of different services or customers, reducing the network construction costs, and improving network resource utilization. The S5730-HI series switches are VXLAN-capable and allow centralized and distributed VXLAN gateway deployment modes. These switches also support the BGP EVPN protocol for dynamically establishing VXLAN tunnels and can be configured using NETCONF/YANG.

NOTE

For detailed information about VXLAN, visit

<https://e.huawei.com/en/material/onLineView?MaterialID=741ea70ef97e4dd8bc2b4ef350b48949>

Big Data Security Collaboration

- Agile switches use NetStream to collect campus network data and then report such data to the Huawei Cybersecurity Intelligence System (CIS). The purposes of doing so are to detect network security threats, display the security posture across the entire network, and enable automated or manual response to security threats. The CIS delivers the security policies to the Agile Controller. The Agile Controller then delivers such policies to agile switches that will handle security events accordingly. All these ensure campus network security.

Open Programmability System (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.

Product Specifications

Functions and Features

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

Function and Feature		Description	S5730-36C-HI	S5730-44C-HI	S5730-60C-HI	S5730-68C-HI
			S5730-36C-PWH-HI	S5730-44C-PWH-HI	S5730-60C-PWH-HI	S5730-68C-PWH-HI
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
		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	

Function and Feature		Description	S5730-36C-HI S5730-36C-PWH-HI	S5730-44C-HI S5730-44C-PWH-HI	S5730-60C-HI S5730-60C-PWH-HI	S5730-68C-HI S5730-68C-PWH-HI
		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
		Super-VLAN	Yes	Yes	Yes	Yes
		Super-VLAN specification	256	256	256	256
		Sub-VLAN	Yes	Yes	Yes	Yes
		Sub-VLAN specification	1K	1K	1K	1K
		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	Yes
		GVRP	Yes	Yes	Yes	Yes
VCMP	VCMP	Yes	Yes	Yes	Yes	
MAC	MAC address	256K	256K	256K	256K	
	Automatic learning of MAC addresses	Yes	Yes	Yes	Yes	
	Automatic aging of MAC addresses	Yes	Yes	Yes	Yes	
	Static, dynamic, and blackhole MAC address entries	Yes	Yes	Yes	Yes	

Function and Feature		Description	S5730-36C-HI S5730-36C-PWH-HI	S5730-44C-HI S5730-44C-PWH-HI	S5730-60C-HI S5730-60C-PWH-HI	S5730-68C-HI S5730-68C-PWH-HI
		Interface-based MAC address learning limiting	Yes	Yes	Yes	Yes
		Sticky MAC	Yes	Yes	Yes	Yes
		MAC address flapping detection	Yes	Yes	Yes	Yes
		Configuring MAC address learning priorities for interfaces	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	128K	128K	128K	128K
		ARP aging detection	Yes	Yes	Yes	Yes
		Intra-VLAN proxy ARP	Yes	Yes	Yes	Yes
		Inter-VLAN proxy ARP	Yes	Yes	Yes	Yes
		Routed proxy ARP	Yes	Yes	Yes	Yes
	Multi-egress-interface 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

Function and Feature		Description	S5730-36C-HI S5730-36C-PWH-HI	S5730-44C-HI S5730-44C-PWH-HI	S5730-60C-HI S5730-60C-PWH-HI	S5730-68C-HI S5730-68C-PWH-HI
		Single RRPP ring	Yes	Yes	Yes	Yes
		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
		DHCP policy VLAN	Yes	Yes	Yes	Yes
		URPF check	Yes	Yes	Yes	Yes
		Routing policies	Yes	Yes	Yes	Yes
		IPv4 routes	512K	512K	512K	512K
		RIPv1	Yes	Yes	Yes	Yes
		RIPv2	Yes	Yes	Yes	Yes
		OSPF	Yes	Yes	Yes	Yes
		BGP	Yes	Yes	Yes	Yes
		MBGP	Yes	Yes	Yes	Yes
	IS-IS	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		16K	16K	16K	16K	
IPv6 multicast routes		16K	16K	16K	16K	
Multicast routing policies		Yes	Yes	Yes	Yes	

Function and Feature		Description	S5730-36C-HI S5730-36C-PWH-HI	S5730-44C-HI S5730-44C-PWH-HI	S5730-60C-HI S5730-60C-PWH-HI	S5730-68C-HI S5730-68C-PWH-HI
		RPF	Yes	Yes	Yes	Yes
	IPv6 features	IPv6 protocol stack	Yes	Yes	Yes	Yes
		ND	Yes	Yes	Yes	Yes
		ND entry	64K	64K	64K	64K
		ND snooping	Yes	Yes	Yes	Yes
		DHCPv6 snooping	Yes	Yes	Yes	Yes
		RIPng	Yes	Yes	Yes	Yes
		DHCPv6 server	Yes	Yes	Yes	Yes
		DHCPv6 relay	Yes	Yes	Yes	Yes
		OSPFv3	Yes	Yes	Yes	Yes
		BGP4+	Yes	Yes	Yes	Yes
		IS-IS for IPv6	Yes	Yes	Yes	Yes
		IPv6 routes	64K	64K	64K	64K
		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	
IPv6 transition technology	IPv6 manual tunneling	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
MPLS & VPN	MPLS basic functions	LDP protocol	Yes	Yes	Yes	Yes
		Double MPLS labels	Yes	Yes	Yes	Yes
		Mapping from 802.1p priorities to EXP priorities in MPLS packets	Yes	Yes	Yes	Yes
		Mapping from DSCP priorities to EXP priorities in MPLS packets	Yes	Yes	Yes	Yes
	MPLS TE	MPLS-TE tunnel establishment	Yes	Yes	Yes	Yes

Function and Feature		Description	S5730-36C-HI S5730-36C-PWH-HI	S5730-44C-HI S5730-44C-PWH-HI	S5730-60C-HI S5730-60C-PWH-HI	S5730-68C-HI S5730-68C-PWH-HI
		MPLS-TE tunnel specification	256	256	256	256
		MPLS-TE protection group	Yes	Yes	Yes	Yes
	VPN	MCE	Yes	Yes	Yes	Yes
		GRE tunneling	Yes	Yes	Yes	Yes
		GRE tunnel specification	512	512	512	512
		VLL	Yes	Yes	Yes	Yes
		PWE3	Yes	Yes	Yes	Yes
		VPLS	Yes	Yes	Yes	Yes
		MPLS L3VPN	Yes	Yes	Yes	Yes
		IPSec Efficient VPN	Yes	Yes	Yes	Yes
Device reliability	BFD	Single-hop BFD	Yes	Yes	Yes	Yes
		BFD for static routes	Yes	Yes	Yes	Yes
		BFD for OSPF	Yes	Yes	Yes	Yes
		BFD for IS-IS	Yes	Yes	Yes	Yes
		BFD for BGP	Yes	Yes	Yes	Yes
		BFD for PIM	Yes	Yes	Yes	Yes
		BFD for VRRP	Yes	Yes	Yes	Yes
	Stacking	Service interface-based stacking	Yes	Yes	Yes	Yes
		Maximum number of stacked devices	9	9	9	9
		Stack bandwidth (Unidirectional)	Up to 120 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 802.1ag and 802.3ah	Yes	Yes	Yes	Yes

Function and Feature		Description	S5730-36C-HI S5730-36C-PWH-HI	S5730-44C-HI S5730-44C-PWH-HI	S5730-60C-HI S5730-60C-PWH-HI	S5730-68C-HI S5730-68C-PWH-HI
	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
		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	Weighted Random Early Detection (WRED) on queues	Yes	Yes	Yes	Yes
		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	4K	4K	4K	4K
		IPv6 ACL rule	4.5K	4.5K	4.5K	4.5K
		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	S5730-36C-HI S5730-36C-PWH-HI	S5730-44C-HI S5730-44C-PWH-HI	S5730-60C-HI S5730-60C-PWH-HI	S5730-68C-HI S5730-68C-PWH-HI
		User group ACL	Yes	Yes	Yes	Yes
		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
		EasyDeploy (commander)	Yes	Yes	Yes	Yes
		SVF	Yes	Yes	Yes	Yes
		Cloud management	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	Deception	Yes	Yes	Yes	Yes
		ECA	Yes	Yes	Yes	Yes
		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	
Energy saving		Yes	Yes	Yes	Yes	
Version upgrade	Version upgrade	Yes	Yes	Yes	Yes	

Function and Feature		Description	S5730-36C-HI S5730-36C-PWH-HI	S5730-44C-HI S5730-44C-PWH-HI	S5730-60C-HI S5730-60C-PWH-HI	S5730-68C-HI S5730-68C-PWH-HI
		Version rollback	Yes	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
		ARP gateway anti-collision	Yes	Yes	Yes	Yes
		Dynamic ARP Inspection (DAI)	Yes	Yes	Yes	Yes
		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	3K	3K	3K	3K
		IPSG for IPv6	Yes	Yes	Yes	Yes
		IPSGv6 user capacity	1.5K	1.5K	1.5K	1.5K
	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

Function and Feature		Description	S5730-36C-HI S5730-36C-PWH-HI	S5730-44C-HI S5730-44C-PWH-HI	S5730-60C-HI S5730-60C-PWH-HI	S5730-68C-HI S5730-68C-PWH-HI	
		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	
		MAC address authentication	Yes	Yes	Yes	Yes	
		Portal authentication	Yes	Yes	Yes	Yes	
		Hybrid authentication	Yes	Yes	Yes	Yes	
	Policy association	Functioning as the control 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	
iPCA			Yes	Yes	Yes	Yes	
NetStream			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	
RMON			Yes	Yes	Yes	Yes	
RMON2			Yes	Yes	Yes	Yes	
WLAN	-	Wireless forwarding performance	Up to 65 Mpps				
		AP management	Yes	Yes	Yes	Yes	
		Number of managed APs	1K	1K	1K	1K	
		Radio management	Yes	Yes	Yes	Yes	
		WLAN service management	Yes	Yes	Yes	Yes	
		WLAN QoS	Yes	Yes	Yes	Yes	
		WLAN security	Yes	Yes	Yes	Yes	

Function and Feature		Description	S5730-36C-HI S5730-36C-PWH-HI	S5730-44C-HI S5730-44C-PWH-HI	S5730-60C-HI S5730-60C-PWH-HI	S5730-68C-HI S5730-68C-PWH-HI
		WLAN user management	Yes	Yes	Yes	Yes
VXLAN	-	VXLAN Layer 2 gateway	Yes	Yes	Yes	Yes
		VXLAN Layer 3 gateway	Yes	Yes	Yes	Yes
		Centralized gateway	Yes	Yes	Yes	Yes
		Distributed gateway	Yes	Yes	Yes	Yes
		VXLAN tunnel specification	16K	16K	16K	16K
		BGP-EVPN	Yes	Yes	Yes	Yes
		BGP-EVPN neighbor capacity	256	256	256	256
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-HI.

Hardware specifications of non-PoE-capable S5730-HI models

Item		S5730-36C-HI	S5730-44C-HI	S5730-60C-HI	S5730-68C-HI
Physical specifications	Chassis dimensions (W x D x H, mm)	442 x 420 x 44.4	442 x 420 x 44.4	442 x 420 x 44.4	442 x 420 x 44.4
	Chassis height	1 U	1 U	1 U	1 U
	Chassis weight (full configuration weight, including weight of packaging materials)	8.6 kg (18.96 lb)	8.5 kg (18.74 lb)	8.8 kg (19.40 lb)	8.5 kg (18.74 lb)
Fixed port	GE port	24	24	48	48
	10GE port	4	4	4	4
Flexible card	Card slot	1	2	1	2
	Card type	<ul style="list-style-type: none"> 8-port Ethernet 10GBASE-T interface card 	<ul style="list-style-type: none"> Slot 1: <ul style="list-style-type: none"> 8-port Ethernet 10GBASE-T 	<ul style="list-style-type: none"> 8-port Ethernet 10GBASE-T interface card 	<ul style="list-style-type: none"> Slot 1: <ul style="list-style-type: none"> 8-port Ethernet

Item		S5730-36C-HI	S5730-44C-HI	S5730-60C-HI	S5730-68C-HI
		(non-GE-capable) <ul style="list-style-type: none"> • 2-port 40GE QSFP+ interface card • 8-port 10GE SFP+ interface card (GE-capable) 	interface card (non-GE-capable) <ul style="list-style-type: none"> - 2-port 40GE QSFP+ interface card - 8-port 10GE SFP+ interface card (GE-capable) • Slot 2: Cards are not supported at present. 	(non-GE-capable) <ul style="list-style-type: none"> • 2-port 40GE QSFP+ interface card • 8-port 10GE SFP+ interface card (the last four ports are GE-capable.) 	10GBASE-T interface card (non-GE-capable) <ul style="list-style-type: none"> - 2-port 40GE QSFP+ interface card - 8-port 10GE SFP+ interface card (the last four ports are GE-capable.) • Slot 2: Cards are not supported at present.
	Card specification	For details about cards, see the section Card Types.	For details about cards, see the section Card Types.	For details about cards, see the section Card Types.	For details about cards, see the section Card Types.
Management port	ETH port	Supported	Supported	Supported	Supported
	Console port (RJ45)	Supported	Supported	Supported	Supported
	USB port	USB 2.0	USB 2.0	USB 2.0	USB 2.0
CPU	Frequency	1.5 GHz	1.5 GHz	1.5 GHz	1.5 GHz
	Cores	8	8	8	8
Storage	Memory (RAM)	4 GB	2 GB	4 GB	2 GB
	Flash memory	Hardware: 1 GB, of which 624 MB is available for users NOTE The S5730-36C-HI and S5730-60C-HI support SSD cards (240 GB).	Hardware: 1 GB, of which 624 MB is available for users NOTE The S5730-36C-HI and S5730-60C-HI support SSD cards (240 GB).	Hardware: 1 GB, of which 624 MB is available for users NOTE The S5730-36C-HI and S5730-60C-HI support SSD cards (240 GB).	Hardware: 1 GB, of which 624 MB is available for users NOTE The S5730-36C-HI and S5730-60C-HI support SSD cards (240 GB).
Power supply system	Power supply type	<ul style="list-style-type: none"> • 150 W AC • 150 W DC (pluggable) 	<ul style="list-style-type: none"> • 150 W AC • 150 W DC (pluggable) 	<ul style="list-style-type: none"> • 150 W AC • 150 W DC (pluggable) 	<ul style="list-style-type: none"> • 150 W AC • 150 W DC (pluggable)
	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.	For details about power supplies, see the section Power Supply.
	Rated voltage range	<ul style="list-style-type: none"> • AC: 100 V AC to 240 V AC; 50/60 	<ul style="list-style-type: none"> • AC: 100 V AC to 240 V AC; 50/60 	<ul style="list-style-type: none"> • AC: 100 V AC to 240 V AC; 50/60 	<ul style="list-style-type: none"> • AC: 100 V AC to 240 V AC;

Item		S5730-36C-HI	S5730-44C-HI	S5730-60C-HI	S5730-68C-HI
		Hz <ul style="list-style-type: none"> DC: -48 V DC to -60 V DC 	Hz <ul style="list-style-type: none"> DC: -48 V DC to -60 V DC 	Hz <ul style="list-style-type: none"> DC: -48 V DC to -60 V DC 	50/60 Hz <ul style="list-style-type: none"> DC: -48 V DC to -60 V DC
	Maximum voltage range	<ul style="list-style-type: none"> AC: 90 V AC to 264 V AC; 47-63 Hz DC: -36 V DC to -72 V DC 	<ul style="list-style-type: none"> AC: 90 V AC to 264 V AC; 47-63 Hz DC: -36 V DC to -72 V DC 	<ul style="list-style-type: none"> AC: 90 V AC to 264 V AC; 47-63 Hz DC: -36 V DC to -72 V DC 	<ul style="list-style-type: none"> AC: 90 V AC to 264 V AC; 47-63 Hz DC: -36 V DC to -72 V DC
	Maximum input current	<ul style="list-style-type: none"> 150 W AC: 3 A 150 W DC: 6 A 	<ul style="list-style-type: none"> 150 W AC: 3 A 150 W DC: 6 A 	<ul style="list-style-type: none"> 150 W AC: 3 A 150 W DC: 6 A 	<ul style="list-style-type: none"> 150 W AC: 3 A 150 W DC: 6 A
	Maximum power consumption of the device	74 W	76.5 W	87.7 W	88.05 W
	Power consumption in the case of 30% traffic load ¹	58 W	54 W	70 W	62 W
	Power consumption in the case of 100% traffic load ¹	62 W	56 W	75 W	68 W
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	Air-cooled heat dissipation and intelligent fan speed adjustment
	Number of fan modules	Pluggable dual fans	3	Pluggable dual fans	3
	Airflow	Air flows in from the left and right sides, and exhausts from the rear panel	Air flows in from the left side and exhausts from the right side	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 side and front panel and exhausts from the right side
	Maximum heat dissipation of the device (BTU/hour)	253	263	300.00	300
Environment parameters	Long-term operating temperature	<ul style="list-style-type: none"> 0-1800 m: 0°C to 45°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. 	<ul style="list-style-type: none"> 0-1800 m: 0°C to 45°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. 	<ul style="list-style-type: none"> 0-1800 m: 0°C to 45°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. 	<ul style="list-style-type: none"> 0-1800 m: 0°C to 45°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m.
	Short-term	<ul style="list-style-type: none"> 0-1800 m: -5°C 	<ul style="list-style-type: none"> 0-1800 m: -5°C to 	<ul style="list-style-type: none"> 0-1800 m: -5°C to 	<ul style="list-style-type: none"> 0-1800 m: -5°C

Item	S5730-36C-HI	S5730-44C-HI	S5730-60C-HI	S5730-68C-HI
operating temperature	<p>to +50°C</p> <ul style="list-style-type: none"> 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. <p>NOTE 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>	<p>+50°C</p> <ul style="list-style-type: none"> 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. <p>NOTE 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>	<p>+50°C</p> <ul style="list-style-type: none"> 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. <p>NOTE 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>	<p>to +50°C</p> <ul style="list-style-type: none"> 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. <p>NOTE 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	-40°C to +70°C
Relative humidity	5%–95% (non-condensing)	5%–95% (non-condensing)	5%–95% (non-condensing)	5%–95% (non-condensing)
Operating altitude	<ul style="list-style-type: none"> AC: 5000 m DC: 2000 m 	<ul style="list-style-type: none"> AC: 5000 m DC: 2000 m 	<ul style="list-style-type: none"> AC: 5000 m DC: 2000 m 	<ul style="list-style-type: none"> AC: 5000 m DC: 2000 m
Noise under normal temperature (sound power)	52.9 dB(A)	55.6 dB(A)	52.9 dB(A)	55.6 dB(A)
Noise under high temperature (sound power)	74.6 dB(A)	77.6 dB(A)	74.6 dB(A)	77.6 dB(A)
Noise under normal temperature (sound pressure)	49.9 dB(A)	52.6 dB(A)	49.9 dB(A)	52.6 dB(A)
Surge protection specification (RJ45 service port)	±7 kV	±7 kV	±7 kV	±7 kV
Surge protection specification	<ul style="list-style-type: none"> AC power port: <ul style="list-style-type: none"> Differential mode: ±6 kV 	<ul style="list-style-type: none"> AC power port: <ul style="list-style-type: none"> Differential mode: ±6 kV 	<ul style="list-style-type: none"> AC power port: <ul style="list-style-type: none"> Differential mode: ±6 kV 	<ul style="list-style-type: none"> AC power port: <ul style="list-style-type: none"> Differential mode: ±6 kV

Item		S5730-36C-HI	S5730-44C-HI	S5730-60C-HI	S5730-68C-HI
	(power port)	<ul style="list-style-type: none"> - Common mode: ± 6 kV • DC power port: <ul style="list-style-type: none"> - Differential mode: ± 1 kV - Common mode: ± 2 kV 	<ul style="list-style-type: none"> - Common mode: ± 6 kV • DC power port: <ul style="list-style-type: none"> - Differential mode: ± 1 kV - Common mode: ± 2 kV 	<ul style="list-style-type: none"> - Common mode: ± 6 kV • DC power port: <ul style="list-style-type: none"> - Differential mode: ± 1 kV - Common mode: ± 2 kV 	<ul style="list-style-type: none"> - Common mode: ± 6 kV • DC power port: <ul style="list-style-type: none"> - Differential mode: ± 1 kV - Common mode: ± 2 kV
Reliability	MTBF (year) ³	47.53	50.95	47.28	49.29
	MTTR (hour)	2	2	2	2
	Availability	> 0.99999	> 0.99999	> 0.99999	> 0.99999
Certification		<ul style="list-style-type: none"> • EMC certification • Safety certification • Manufacturing certification <p>For details about certifications, see the section Safety and Regulatory Compliance.</p>	<ul style="list-style-type: none"> • EMC certification • Safety certification • Manufacturing certification <p>For details about certifications, see the section Safety and Regulatory Compliance.</p>	<ul style="list-style-type: none"> • EMC certification • Safety certification • Manufacturing certification <p>For details about certifications, see the section Safety and Regulatory Compliance.</p>	<ul style="list-style-type: none"> • EMC certification • Safety certification • Manufacturing certification <p>For details about certifications, see the section Safety and Regulatory Compliance.</p>

Hardware specifications of PoE-capable S5730-HI models

Item		S5730-36C-PWH-HI	S5730-44C-PWH-HI	S5730-60C-PWH-HI	S5730-68C-PWH-HI
Physical specifications	Chassis dimensions (W x D x H, mm)	442 x 420 x 44.4	442 x 420 x 44.4	442 x 420 x 44.4	442 x 420 x 44.4
	Chassis height	1 U	1 U	1 U	1 U
	Chassis weight (full configuration weight, including weight of packaging materials)	8.76 kg (19.31 lb)	8.52 kg (18.78 lb)	9 kg (19.84 lb)	8.7 kg (19.18 lb)
Fixed port	GE port	24	24	48	48
	10GE port	4	4	4	4
Flexible card	Card slot	1	2	1	2
	Card type	<ul style="list-style-type: none"> • 8-port Ethernet 10GBASE-T interface card (non-GE-capable) • 2-port 40GE QSFP+ interface card • 8-port 10GE 	<ul style="list-style-type: none"> • Slot 1: <ul style="list-style-type: none"> - 8-port Ethernet 10GBASE-T interface card (non-GE-capable) - 2-port 40GE QSFP+ 	<ul style="list-style-type: none"> • 8-port Ethernet 10GBASE-T interface card (non-GE-capable) • 2-port 40GE QSFP+ interface card • 8-port 10GE SFP+ interface 	<ul style="list-style-type: none"> • Slot 1: <ul style="list-style-type: none"> - 8-port Ethernet 10GBASE-T interface card (non-GE-capable) - 2-port 40GE QSFP+

Item		S5730-36C-PWH-HI	S5730-44C-PWH-HI	S5730-60C-PWH-HI	S5730-68C-PWH-HI
		SFP+ interface card (GE-capable)	interface card <ul style="list-style-type: none"> - 8-port 10GE SFP+ interface card (GE-capable) • Slot 2: Cards are not supported at present. 	card (the last four ports are GE-capable.)	interface card <ul style="list-style-type: none"> - 8-port 10GE SFP+ interface card (the last four ports are GE-capable.) • Slot 2: Cards are not supported at present.
	Card specification	For details about cards, see the section Card Types.	For details about cards, see the section Card Types.	For details about cards, see the section Card Types.	For details about cards, see the section Card Types.
Management port	ETH port	Supported	Supported	Supported	Supported
	Console port (RJ45)	Supported	Supported	Supported	Supported
	USB port	USB 2.0	USB 2.0	USB 2.0	USB 2.0
CPU	Frequency	1.5 GHz	1.5 GHz	1.5 GHz	1.5 GHz
	Cores	8	8	8	8
Storage	Memory (RAM)	4 GB	2 GB	4 GB	2 GB
	Flash memory	Hardware: 1 GB, of which 624 MB is available for users NOTE The S5730-36C-PWH-HI and S5730-60C-PWH-HI support SSD cards (240 GB).	Hardware: 1 GB, of which 624 MB is available for users	Hardware: 1 GB, of which 624 MB is available for users NOTE The S5730-36C-PWH-HI and S5730-60C-PWH-HI support SSD cards (240 GB).	Hardware: 1 GB, of which 624 MB is available for users
Power supply system	Power supply type	<ul style="list-style-type: none"> • 1150 W AC (pluggable) • 500 W AC (pluggable) • 650 W DC (pluggable) 	<ul style="list-style-type: none"> • 1150 W AC (pluggable) • 500 W AC (pluggable) • 650 W DC (pluggable) 	<ul style="list-style-type: none"> • 1150 W AC (pluggable) • 500 W AC (pluggable) • 650 W DC (pluggable) 	<ul style="list-style-type: none"> • 1150 W AC (pluggable) • 500 W AC (pluggable) • 650 W DC (pluggable)
	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.	For details about power supplies, see the section Power Supply.
	Rated voltage range	<ul style="list-style-type: none"> • AC: 100 V AC to 240 V AC; 50/60 Hz • DC: -48 V DC to -60 V DC 	<ul style="list-style-type: none"> • AC: 100 V AC to 240 V AC; 50/60 Hz • DC: -48 V DC to -60 V DC 	<ul style="list-style-type: none"> • AC: 100 V AC to 240 V AC; 50/60 Hz • DC: -48 V DC to -60 V DC 	<ul style="list-style-type: none"> • AC: 100 V AC to 240 V AC; 50/60 Hz • DC: -48 V DC to -60 V DC
	Maximum	• AC: 90 V AC to	• AC: 90 V AC to	• AC: 90 V AC to	• AC: 90 V AC to

Item		S5730-36C-PWH-HI	S5730-44C-PWH-HI	S5730-60C-PWH-HI	S5730-68C-PWH-HI
	voltage range	264 V AC; 47-63 Hz <ul style="list-style-type: none"> DC: -36 V DC to -72 V DC 	264 V AC; 47-63 Hz <ul style="list-style-type: none"> DC: -36 V DC to -72 V DC 	264 V AC; 47-63 Hz <ul style="list-style-type: none"> DC: -36 V DC to -72 V DC 	264 V AC; 47-63 Hz <ul style="list-style-type: none"> DC: -36 V DC to -72 V DC
	Maximum input current	<ul style="list-style-type: none"> 500 W AC: 7 A 650 W DC: 20 A 1150 W: 100-240 V, 10 A 	<ul style="list-style-type: none"> 500 W AC: 7 A 650 W DC: 20 A 1150 W: 100-240 V, 10 A 	<ul style="list-style-type: none"> 500 W AC: 7 A 650 W DC: 20 A 1150 W: 100-240 V, 10 A 	<ul style="list-style-type: none"> 500 W AC: 7 A 650 W DC: 20 A 1150 W: 100-240 V, 10 A
	Maximum power consumption of the device	<ul style="list-style-type: none"> 500 W AC/650 W DC: <ul style="list-style-type: none"> Without cards and PDs: 90 W With PDs: 815 W (PDs: 739.2 W) 1150 W AC: <ul style="list-style-type: none"> Without cards and PDs: 105.9 W With PDs: 1595 W (PDs: 1440 W) 	<ul style="list-style-type: none"> 500 W AC/650 W DC: <ul style="list-style-type: none"> Without cards and PDs: 94 W With PDs: 830 W 1150 W AC: <ul style="list-style-type: none"> Without cards and PDs: 107.6 W With PDs: 1596 W (PDs: 1440 W) 	<ul style="list-style-type: none"> 500 W AC/650 W DC: <ul style="list-style-type: none"> Without cards and PDs: 106 W With PDs: 830 W (PDs: 739.2 W) 1150 W AC: <ul style="list-style-type: none"> Without cards and PDs: 119.7 W With PDs: 1610 W (PDs: 1440 W) 	<ul style="list-style-type: none"> 500 W AC/650 W DC: <ul style="list-style-type: none"> Without cards and PDs: 106 W With PDs: 830 W 1150 W AC: <ul style="list-style-type: none"> Without cards and PDs: 116.3 W With PDs: 1608 W (PDs: 1440 W)
	Power consumption in the case of 30% traffic load ¹	<ul style="list-style-type: none"> 500 W AC (without cards and PDs): 66 W 1150 W AC (without cards and PDs): 73 W 	<ul style="list-style-type: none"> 500 W AC (without cards and PDs): 65 W 1150 W AC (without cards and PDs): 71 W 	<ul style="list-style-type: none"> 500 W AC (without cards and PDs): 80 W 1150 W AC (without cards and PDs): 83 W 	<ul style="list-style-type: none"> 500 W AC (without cards and PDs): 72 W 1150 W AC (without cards and PDs): 76 W
	Power consumption in the case of 100% traffic load ¹	<ul style="list-style-type: none"> 500 W AC (without cards and PDs): 69 W 1150 W AC (without cards and PDs): 76 W 	<ul style="list-style-type: none"> 500 W AC (without cards and PDs): 69 W 1150 W AC (without cards and PDs): 73 W 	<ul style="list-style-type: none"> 500 W AC (without cards and PDs): 85 W 1150 W AC (without cards and PDs): 88 W 	<ul style="list-style-type: none"> 500 W AC (without cards and PDs): 76 W 1150 W AC (without cards and PDs): 80 W
PoE specification	Maximum PoE power output	<ul style="list-style-type: none"> 500 W/650 W: <ul style="list-style-type: none"> Single power supply: 369.6 W Dual power supplies: 739.2 W 	<ul style="list-style-type: none"> 650 W DC: <ul style="list-style-type: none"> Single power supply: 350 W Dual 650 W DC power supplies or one 650 W DC and one 500 	<ul style="list-style-type: none"> 500 W/650 W: <ul style="list-style-type: none"> Single power supply: 369.6 W Dual power supplies: 739.2 W Dual 1150 W 	<ul style="list-style-type: none"> 650 W DC: <ul style="list-style-type: none"> Single power supply: 350 W Dual 650 W DC power supplies or one 650 W DC and one 500

Item	S5730-36C-PWH-HI	S5730-44C-PWH-HI	S5730-60C-PWH-HI	S5730-68C-PWH-HI
	<ul style="list-style-type: none"> • Dual 1150 W power supplies: 1440 W (220 V input) • Dual 1150 W power supplies: 893.2 W (110 V input) 	<p>W AC power supplies: 700 W</p> <ul style="list-style-type: none"> • 500 W AC: <ul style="list-style-type: none"> – Single power supply: 369.6 W – Dual power supplies: 739.2 W • Dual 1150 W power supplies: 1440 W (220 V input) • Dual 1150 W power supplies: 893.2 W (110 V input) 	<p>power supplies: 1440 W (220 V input)</p> <ul style="list-style-type: none"> • Dual 1150 W power supplies: 893.2 W (110 V input) 	<p>W AC power supplies: 700 W</p> <ul style="list-style-type: none"> • 500 W AC: <ul style="list-style-type: none"> – Single power supply: 369.6 W – Dual power supplies: 739.2 W • Dual 1150 W power supplies: 1440 W (220 V input) • Dual 1150 W power supplies: 893.2 W (110 V input)
Number of PoE+ ports ²	24	24	48	48
Number of PoE++ ports ²	24	24	48	48
Maximum number of ports with maximum PoE power (15.4 W)	24	24	<ul style="list-style-type: none"> • 500 W AC or 650 W DC: <ul style="list-style-type: none"> – Single power supply: 24 – Dual power supplies: 48 • 1150 W (220 V input): <ul style="list-style-type: none"> – Single power supply: 48 – Dual power supplies: 48 • 1150 W (110 V input): <ul style="list-style-type: none"> – Single power supply: 29 – Dual power supplies: 48 	<ul style="list-style-type: none"> • 500 W AC or 650 W DC: <ul style="list-style-type: none"> – Single power supply: 24 – Dual power supplies: 48 • 1150 W (220 V input): <ul style="list-style-type: none"> – Single power supply: 48 – Dual power supplies: 48 • 1150 W (110 V input): <ul style="list-style-type: none"> – Single power supply: 29 – Dual power supplies: 48
Maximum number of ports with maximum PoE+ power (30 W)	<ul style="list-style-type: none"> • 500 W AC or 650 W DC: <ul style="list-style-type: none"> – Single power supply: 12 – Dual power supplies: 24 • 1150 W (220 V input): 	<ul style="list-style-type: none"> • 650 W DC: <ul style="list-style-type: none"> – Single power supply: 11 – Dual 650 W DC power supplies or one 650 W DC and one 500 W AC power supplies: 23 	<ul style="list-style-type: none"> • 500 W AC or 650 W DC: <ul style="list-style-type: none"> – Single power supply: 12 – Dual power supplies: 24 • 1150 W (220 V input): <ul style="list-style-type: none"> – Single power supply: 24 	<ul style="list-style-type: none"> • 650 W DC: <ul style="list-style-type: none"> – Single power supply: 11 – Dual 650 W DC power supplies or one 650 W DC and one 500 W AC power supplies: 23

Item		S5730-36C-PWH-HI	S5730-44C-PWH-HI	S5730-60C-PWH-HI	S5730-68C-PWH-HI
		<ul style="list-style-type: none"> - Single power supply: 24 - Dual power supplies: 24 • 1150 W (110 V input): <ul style="list-style-type: none"> - Single power supply: 14 - Dual power supplies: 24 	<ul style="list-style-type: none"> • 500 W AC: <ul style="list-style-type: none"> - Single power supply: 12 - Dual power supplies: 24 • 1150 W (220 V input): <ul style="list-style-type: none"> - Single power supply: 24 - Dual power supplies: 24 • 1150 W (110 V input): <ul style="list-style-type: none"> - Single power supply: 14 - Dual power supplies: 24 	<ul style="list-style-type: none"> - Dual power supplies: 48 • 1150 W (110 V input): <ul style="list-style-type: none"> - Single power supply: 14 - Dual power supplies: 29 	<ul style="list-style-type: none"> • 500 W AC: <ul style="list-style-type: none"> - Single power supply: 12 - Dual power supplies: 24 • 1150 W (220 V input): <ul style="list-style-type: none"> - Single power supply: 24 - Dual power supplies: 24 • 1150 W (110 V input): <ul style="list-style-type: none"> - Single power supply: 14 - Dual power supplies: 24
	Maximum number of ports with maximum PoE++ power (60 W)	<ul style="list-style-type: none"> • 500 W AC or 650 W DC: <ul style="list-style-type: none"> - Single power supply: 6 - Dual power supplies: 12 • 1150 W (220 V input): <ul style="list-style-type: none"> - Single power supply: 13 - Dual power supplies: 24 • 1150 W (110 V input): <ul style="list-style-type: none"> - Single power supply: 7 - Dual power supplies: 14 	<ul style="list-style-type: none"> • 650 W DC: <ul style="list-style-type: none"> - Single power supply: 5 - Dual 650 W DC power supplies or one 650 W DC and one 500 W AC power supplies: 11 • 500 W AC: <ul style="list-style-type: none"> - Single power supply: 6 - Dual power supplies: 12 • 1150 W (220 V input): <ul style="list-style-type: none"> - Single power supply: 13 - Dual power supplies: 24 • 1150 W (110 V input): <ul style="list-style-type: none"> - Single power supply: 7 - Dual power supplies: 14 	<ul style="list-style-type: none"> • 500 W AC or 650 W DC: <ul style="list-style-type: none"> - Single power supply: 6 - Dual power supplies: 12 • 1150 W (220 V input): <ul style="list-style-type: none"> - Single power supply: 13 - Dual power supplies: 24 • 1150 W (110 V input): <ul style="list-style-type: none"> - Single power supply: 7 - Dual power supplies: 14 	<ul style="list-style-type: none"> • 650 W DC: <ul style="list-style-type: none"> - Single power supply: 5 - Dual 650 W DC power supplies or one 650 W DC and one 500 W AC power supplies: 11 • 500 W AC: <ul style="list-style-type: none"> - Single power supply: 6 - Dual power supplies: 12 • 1150 W (220 V input): <ul style="list-style-type: none"> - Single power supply: 13 - Dual power supplies: 24 • 1150 W (110 V input): <ul style="list-style-type: none"> - Single power supply: 7 - Dual power supplies: 14
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	Air-cooled heat dissipation and intelligent fan speed adjustment
	Number of fan modules	Pluggable dual fans	3	Pluggable dual fans	3

Item		S5730-36C-PWH-HI	S5730-44C-PWH-HI	S5730-60C-PWH-HI	S5730-68C-PWH-HI
	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 side and exhausts from the right side	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 side and front panel and exhausts from the right side
	Maximum heat dissipation of the device (BTU/hour)	<ul style="list-style-type: none"> 500 W AC/650 W DC (without cards and PDs): 307 1150 W AC (without cards and PDs): 361 	<ul style="list-style-type: none"> 500 W AC/650 W DC (without cards and PDs): 287 1150 W AC (without cards and PDs): 369 	<ul style="list-style-type: none"> 500 W AC/650 W DC (without cards and PDs): 362 1150 W AC (without cards and PDs): 410 	<ul style="list-style-type: none"> 500 W AC/650 W DC (without cards and PDs): 362 1150 W AC (without cards and PDs): 396
Environment parameters	Long-term operating temperature	<ul style="list-style-type: none"> 0-1800 m: 0°C to 45°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. 	<ul style="list-style-type: none"> 0-1800 m: 0°C to 45°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. 	<ul style="list-style-type: none"> 0-1800 m: 0°C to 45°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. 	<ul style="list-style-type: none"> 0-1800 m: 0°C to 45°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m.
	Short-term operating temperature	<ul style="list-style-type: none"> 0-1800 m: -5°C to +50°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. <p>NOTE 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"> 0-1800 m: -5°C to +50°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. <p>NOTE 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"> 0-1800 m: -5°C to +50°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. <p>NOTE 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"> 0-1800 m: -5°C to +50°C 1800-5000 m: The operating temperature decreases 1°C every time the altitude increases 220 m. <p>NOTE 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	-40°C to +70°C
Relative	5%–95% (non-	5%–95% (non-	5%–95% (non-	5%–95% (non-	

Item		S5730-36C-PWH-HI	S5730-44C-PWH-HI	S5730-60C-PWH-HI	S5730-68C-PWH-HI
	humidity	condensing)	condensing)	condensing)	condensing)
	Operating altitude	<ul style="list-style-type: none"> AC: 5000 m DC: 2000 m 	<ul style="list-style-type: none"> AC: 5000 m DC: 2000 m 	<ul style="list-style-type: none"> AC: 5000 m DC: 2000 m 	<ul style="list-style-type: none"> AC: 5000 m DC: 2000 m
	Noise under normal temperature (sound power)	<ul style="list-style-type: none"> 1150 W: 69 dB(A) 650 W/500 W: 55 dB(A) 	<ul style="list-style-type: none"> 1150 W: 69.6 dB(A) 650 W/500 W: 57.2 dB(A) 	<ul style="list-style-type: none"> 1150 W: 69 dB(A) 650 W/500 W: 55 dB(A) 	<ul style="list-style-type: none"> 1150 W: 69.6 dB(A) 650 W/500 W: 57.2 dB(A)
	Noise under high temperature (sound power)	<ul style="list-style-type: none"> 1150 W: 75.4 dB(A) 650 W/500 W: 74.3 dB(A) 	<ul style="list-style-type: none"> 1150 W: 78.7 dB(A) 650 W/500 W: 77.6 dB(A) 	<ul style="list-style-type: none"> 1150 W: 75.4 dB(A) 650 W/500 W: 74.3 dB(A) 	<ul style="list-style-type: none"> 1150 W: 78.7 dB(A) 650 W/500 W: 77.6 dB(A)
	Noise under normal temperature (sound pressure)	<ul style="list-style-type: none"> 1150 W: 66 dB(A) 650 W/500 W: 52 dB(A) 	<ul style="list-style-type: none"> 1150 W: 66.6 dB(A) 650 W/500 W: 54.2 dB(A) 	<ul style="list-style-type: none"> 1150 W: 66 dB(A) 650 W/500 W: 52 dB(A) 	<ul style="list-style-type: none"> 1150 W: 66.6 dB(A) 650 W/500 W: 54.2 dB(A)
	Surge protection specification (RJ45 service port)	±7kV	±7kV	±7kV	±7kV
	Surge protection specification (power port)	<ul style="list-style-type: none"> 500 W AC power port: <ul style="list-style-type: none"> Differential mode: ±6 kV Common mode: ±6 kV DC power port: <ul style="list-style-type: none"> Differential mode: ±2 kV Common mode: ±4 kV 1150 W AC power port: <ul style="list-style-type: none"> Differential mode: ±4 kV Common mode: ±2 kV 	<ul style="list-style-type: none"> 500 W AC power port: <ul style="list-style-type: none"> Differential mode: ±6 kV Common mode: ±6 kV DC power port: <ul style="list-style-type: none"> Differential mode: ±2 kV Common mode: ±4 kV 1150 W AC power port: <ul style="list-style-type: none"> Differential mode: ±4 kV Common mode: ±2 kV 	<ul style="list-style-type: none"> 500 W AC power port: <ul style="list-style-type: none"> Differential mode: ±6 kV Common mode: ±6 kV DC power port: <ul style="list-style-type: none"> Differential mode: ±2 kV Common mode: ±4 kV 1150 W AC power port: <ul style="list-style-type: none"> Differential mode: ±4 kV Common mode: ±2 kV 	<ul style="list-style-type: none"> 500 W AC power port: <ul style="list-style-type: none"> Differential mode: ±6 kV Common mode: ±6 kV DC power port: <ul style="list-style-type: none"> Differential mode: ±2 kV Common mode: ±4 kV 1150 W AC power port: <ul style="list-style-type: none"> Differential mode: ±4 kV Common mode: ±2 kV
Reliability	MTBF (year) ³	53.93	49.48	46.09	48.31
	MTTR (hour)	2	2	2	2
	Availability	> 0.99999	> 0.99999	> 0.99999	> 0.99999

Item	S5730-36C-PWH-HI	S5730-44C-PWH-HI	S5730-60C-PWH-HI	S5730-68C-PWH-HI
Certification	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification <p>For details about certifications, see the section Safety and Regulatory Compliance.</p>	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification <p>For details about certifications, see the section Safety and Regulatory Compliance.</p>	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification <p>For details about certifications, see the section Safety and Regulatory Compliance.</p>	<ul style="list-style-type: none"> EMC certification Safety certification Manufacturing certification <p>For details about certifications, see the section Safety and Regulatory Compliance.</p>

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.

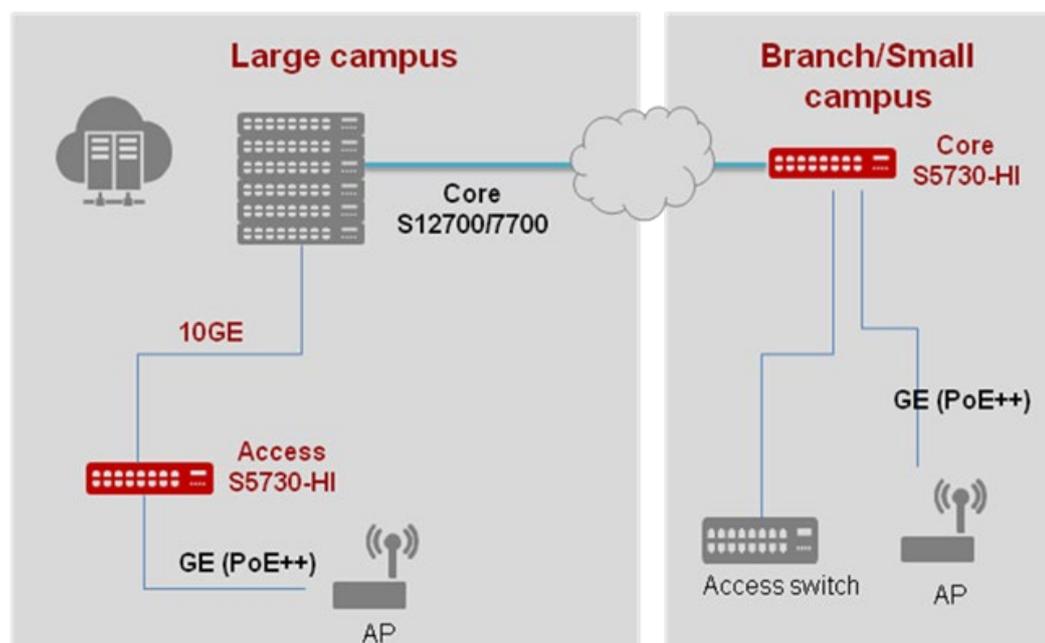
3: The reliability parameter values are calculated based on the typical configuration of the device. The parameter values vary according to the modules configured by the customer.

Networking and Applications

Large Enterprise Campuses and Branch/Small Campuses

As shown in the following figure, the S5730-HI switches are located at the access/core layer to build a high-performance, reliable enterprise campus network.

Position of the S5730-HI on an enterprise campus network



Huawei S5730-HI is the next-generation fixed agile switch. The S5730-HI has large table sizes and buffers, avoiding packet loss in traffic bursts. It supports wired and wireless convergence and unified management on devices, users, and services. The S5730-HI can be used as the core device on an enterprise branch network or a small campus network or as the aggregation or

access device on a large campus network, to achieve a manageable and reliable enterprise campus network with scalable services.

Product Accessories

Optical Modules and Fibers

The S5730-HI 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-HI 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.

Stack cable types and connectors available to the S5730-HI series

Stack Cable	Model	Cable Length	Connector
AOC	SFP-10G-AOC3M	3 m	SFP+
	SFP-10G-AOC10M	10 m	SFP+
	QSFP-H40G-AOC10M	10 m	QSFP+
	QSFP-4SFP10-AOC10M	10 m	4*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+

Stack Cable	Model	Cable Length	Connector
	QSFP-40G-CU5M	5 m	QSFP+
	QSFP-4SFP10G-CU1M	1 m	4*SFP+
	QSFP-4SFP10G-CU3M	3 m	4*SFP+
	QSFP-4SFP10G-CU5M	5 m	4*SFP+

NOTE

For more information about stack cables applicable to the S5730-HI 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-HI.

Safety and regulatory compliance of the S5730-HI series

Certification Category	Description
Safety	<ul style="list-style-type: none"> • IEC 60950-1 • EN 60950-1/A11/A12 • UL 60950-1 • CSA C22.2 No 60950-1 • AS/NZS 60950.1 • CNS 14336-1 • IEC60825-1 • IEC60825-2 • EN60825-1 • EN60825-2
Electromagnetic Compatibility (EMC)	<ul style="list-style-type: none"> • CISPR22 Class A • CISPR24 • EN55022 Class A • EN55024 • ETSI EN 300 386 Class A • CFR 47 FCC Part 15 Class A • ICES 003 Class A • AS/NZS CISPR22 Class A • VCCI Class A • IEC61000-4-2 • ITU-T K 20 • ITU-T K 21 • ITU-T K 44 • CNS13438
Environment	<ul style="list-style-type: none"> • RoHS • REACH • WEEE

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 the S5730-HI.

MIBs supported by the S5730-HI series

Category	MIB
Public MIB	<ul style="list-style-type: none">• BRIDGE-MIB• DISMAN-NSLOOKUP-MIB• DISMAN-PING-MIB• DISMAN-TRACEROUTE-MIB• ENTITY-MIB• EtherLike-MIB• IF-MIB• IP-FORWARD-MIB• IPv6-MIB• LAG-MIB• LLDP-EXT-DOT1-MIB• LLDP-EXT-DOT3-MIB• LLDP-MIB• MPLS-FTN-STD-MIB• MPLS-L3VPN-STD-MIB• MPLS-LDP-GENERIC-STD-MIB• MPLS-LDP-STD-MIB• MPLS-LSR-STD-MIB• MPLS-TE-STD-MIB• NOTIFICATION-LOG-MIB• NQA-MIB• OSPF-TRAP-MIB• P-BRIDGE-MIB

Category	MIB
	<ul style="list-style-type: none"> • Q-BRIDGE-MIB • RFC1213-MIB • RIPv2-MIB • RMON2-MIB • RMON-MIB • SAVI-MIB • SNMP-FRAMEWORK-MIB • SNMP-MPD-MIB • SNMP-NOTIFICATION-MIB • SNMP-TARGET-MIB • SNMP-USER-BASED-SM-MIB • SNMPv2-MIB • TCP-MIB • UDP-MIB
Huawei-proprietary MIB	<ul style="list-style-type: none"> • HUAWEI-AAA-MIB • HUAWEI-ACL-MIB • HUAWEI-ALARM-MIB • HUAWEI-ALARM-RELIABILITY-MIB • HUAWEI-BASE-TRAP-MIB • HUAWEI-BRAS-RADIUS-MIB • HUAWEI-BRAS-SRVCFG-EAP-MIB • HUAWEI-BRAS-SRVCFG-STATICUSER-MIB • HUAWEI-CBQOS-MIB • HUAWEI-CDP-COMPLIANCE-MIB • HUAWEI-CONFIG-MAN-MIB • HUAWEI-CPU-MIB • HUAWEI-DAD-TRAP-MIB • HUAWEI-DC-MIB • HUAWEI-DATASYNC-MIB • HUAWEI-DEVICE-MIB • HUAWEI-DHCPR-MIB • HUAWEI-DHCPS-MIB • HUAWEI-DHCP-SNOOPING-MIB • HUAWEI-DIE-MIB • HUAWEI-DNS-MIB • HUAWEI-DLDP-MIB • HUAWEI-ELMI-MIB • HUAWEI-ERPS-MIB • HUAWEI-ERRORDOWN-MIB • HUAWEI-ENERGYMNGT-MIB • HUAWEI-EASY-OPERATION-MIB • HUAWEI-ENTITY-EXTENT-MIB • HUAWEI-ENTITY-TRAP-MIB • HUAWEI-ETHARP-MIB

Category	MIB
	<ul style="list-style-type: none"> • HUAWEI-ETHOAM-MIB • HUAWEI-FLASH-MAN-MIB • HUAWEI-FWD-RES-TRAP-MIB • HUAWEI-GARP-APP-MIB • HUAWEI-GTSM-MIB • HUAWEI-HGMP-MIB • HUAWEI-HWTACACS-MIB • HUAWEI-IF-EXT-MIB • HUAWEI-INFOCENTER-MIB • HUAWEI-IPPOOL-MIB • HUAWEI-IPV6-MIB • HUAWEI-ISOLATE-MIB • HUAWEI-L2IF-MIB • HUAWEI-L2MAM-MIB • HUAWEI-L2VLAN-MIB • HUAWEI_LDT-MIB • HUAWEI-LLDP-MIB • HUAWEI-MAC-AUTHEN-MIB • HUAWEI-MEMORY-MIB • HUAWEI-MFF-MIB • HUAWEI-MFLP-MIB • HUAWEI-MSTP-MIB • HUAWEI-BGP-VPN-MIB • HUAWEI-CCC-MIB • HUAWEI-MULTICAST-MIB • HUAWEI-NAP-MIB • HUAWEI-NTPV3-MIB • HUAWEI-PERFORMANCE-MIB • HUAWEI-PORT-MIB • HUAWEI-PORTAL-MIB • HUAWEI-QINQ-MIB • HUAWEI-RIPv2-EXT-MIB • HUAWEI-RM-EXT-MIB • HUAWEI-RRPP-MIB • HUAWEI-SECURITY-MIB • HUAWEI-SEP-MIB • HUAWEI-SNMP-EXT-MIB • HUAWEI-SSH-MIB • HUAWEI-STACK-MIB • HUAWEI-SWITCH-L2MAM-EXT-MIB • HUAWEI-SWITCH-SRV-TRAP-MIB • HUAWEI-SYS-MAN-MIB • HUAWEI-TCP-MIB • HUAWEI-TFTPC-MIB • HUAWEI-TRNG-MIB

Category	MIB
	<ul style="list-style-type: none"> HUAWEI-XQOS-MIB

For more information about MIBs supported by the S5730-HI 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-HI complies with.

Standard compliance list of the S5730-HI series

Standard Organization	Standard or Protocol
IETF	<ul style="list-style-type: none"> RFC 768 User Datagram Protocol (UDP) RFC 792 Internet Control Message Protocol (ICMP) RFC 793 Transmission Control Protocol (TCP) RFC 826 Ethernet Address Resolution Protocol (ARP) RFC 854 Telnet Protocol Specification RFC 951 Bootstrap Protocol (BOOTP) RFC 959 File Transfer Protocol (FTP) RFC 1058 Routing Information Protocol (RIP) RFC 1112 Host extensions for IP multicasting RFC 1157 A Simple Network Management Protocol (SNMP) RFC 1256 ICMP Router Discovery RFC 1305 Network Time Protocol Version 3 (NTP) RFC 1349 Internet Protocol (IP) RFC 1493 Definitions of Managed Objects for Bridges RFC 1542 Clarifications and Extensions for the Bootstrap Protocol RFC 1643 Ethernet Interface MIB RFC 1757 Remote Network Monitoring (RMON) RFC 1901 Introduction to Community-based SNMPv2 RFC 1902-1907 SNMP v2 RFC 1981 Path MTU Discovery for IP version 6 RFC 2131 Dynamic Host Configuration Protocol (DHCP) RFC 2328 OSPF Version 2 RFC 2453 RIP Version 2 RFC 2460 Internet Protocol, Version 6 Specification (IPv6) RFC 2461 Neighbor Discovery for IP Version 6 (IPv6) RFC 2462 IPv6 Stateless Address Auto configuration RFC 2463 Internet Control Message Protocol for IPv6 (ICMPv6) RFC 2474 Differentiated Services Field (DS Field) RFC 2740 OSPF for IPv6 (OSPFv3) RFC 2863 The Interfaces Group MIB RFC 2597 Assured Forwarding PHB Group RFC 2598 An Expedited Forwarding PHB RFC 2571 SNMP Management Frameworks RFC 2865 Remote Authentication Dial In User Service (RADIUS) RFC 3046 DHCP Option82

Standard Organization	Standard or Protocol
	<ul style="list-style-type: none"> • RFC 3376 Internet Group Management Protocol, Version 3 (IGMPv3) • RFC 3513 IP Version 6 Addressing Architecture • RFC 3579 RADIUS Support For EAP • RFC 4271 A Border Gateway Protocol 4 (BGP-4) • RFC 4760 Multiprotocol Extensions for BGP-4 • draft-grant-tacacs-02 TACACS+
IEEE	<ul style="list-style-type: none"> • IEEE 802.1D Media Access Control (MAC) Bridges • IEEE 802.1p Virtual Bridged Local Area Networks • IEEE 802.1Q Virtual Bridged Local Area Networks • IEEE 802.1ad Provider Bridges • IEEE 802.2 Logical Link Control • IEEE Std 802.3 CSMA/CD • IEEE Std 802.3ab 1000BASE-T specification • IEEE Std 802.3ad Aggregation of Multiple Link Segments • IEEE Std 802.3ae 10GE WEN/LAN Standard • IEEE Std 802.3x Full Duplex and flow control • IEEE Std 802.3z Gigabit Ethernet Standard • IEEE802.1ax/IEEE802.3ad Link Aggregation • IEEE 802.3ah Ethernet in the First Mile. • IEEE 802.1ag Connectivity Fault Management • IEEE 802.1ab Link Layer Discovery Protocol • IEEE 802.1D Spanning Tree Protocol • IEEE 802.1w Rapid Spanning Tree Protocol • IEEE 802.1s Multiple Spanning Tree Protocol • IEEE802.1x Port based network access control protocol • IEEE802.3af DTE Power via MIDI • IEEE802.3at DTE Power via the MDI Enhancements
ITU	<ul style="list-style-type: none"> • ITU SG13 Y.17ethoam • ITU SG13 QoS control Ethernet-Based IP Access • ITU-T Y.1731 ETH OAM performance monitor
ISO	<ul style="list-style-type: none"> • ISO 10589 IS-IS Routing Protocol
MEF	<ul style="list-style-type: none"> • MEF 2 Requirements and Framework for Ethernet Service Protection • MEF 9 Abstract Test Suite for Ethernet Services at the UNI • MEF 10.2 Ethernet Services Attributes Phase 2 • MEF 11 UNI Requirements and Framework • MEF 13 UNI Type 1 Implementation Agreement • MEF 15 Requirements for Management of Metro Ethernet Phase 1 Network Elements • MEF 17 Service OAM Framework and Requirements • MEF 20 UNI Type 2 Implementation Agreement • MEF 23 Class of Service Phase 1 Implementation Agreement • Xmodem XMODEM/YMODEM Protocol Reference

 **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

Ordering information of the S5730-HI series

Item	Product Description
1	S5730-36C-HI (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 1*expansion slot, without power module)
2	S5730-44C-HI (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*expansion slots, without power module)
3	S5730-36C-PWH-HI (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 1*expansion slot, PoE++, without power module)
4	S5730-44C-PWH-HI (24*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*expansion slots, PoE++, without power module)
5	S5730-60C-HI (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 1*expansion slot, without power module)
6	S5730-68C-HI (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*expansion slots, without power module)
7	S5730-60C-PWH-HI (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 1*expansion slot, PoE++, without power module)
8	S5730-68C-PWH-HI (48*10/100/1000BASE-T ports, 4*10GE SFP+ ports, 2*expansion slots, PoE++, without power module)
9	150W AC Power Module (Black)
10	150W DC Power Module (Black)
11	500W AC PoE Power Module (Black, Power panel side exhaust)
12	650W DC PoE Power Module (Black, Power panel side exhaust)
13	1150W AC PoE Power Module
14	1000W AC PoE Power Module
15	2 40 Gig QSFP+ Interface Card
16	8-port 10GE BASE-T Interface Card
17	8-port 10GE SFP+ Interface Card
18	VXLAN Enhanced Function License
19	SVF Function License
20	FIBv4 Resource License-128K
21	WLAN access controller AP resource license-512AP
22	WLAN access controller AP resource license-128AP
23	WLAN access controller AP resource license-64AP
24	WLAN access controller AP resource license-16AP

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

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