4 Chassis

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4.1 Chassis Overview

The S series fixed Ethernet switches integrate the access and transmission functions to provide reliable access/aggregation and high-quality transmission of services on enterprise networks. The switches are built on an integrated hardware platform, and their hardware system consists of the chassis, power module, fan module, and Switch Control Unit (SCU).

4.2 Naming Conventions

Figure 4-1 S6700 switch naming conventions



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NOTE

The device name in this figure is used as an example and does not represent a specific device.

The uplink and downlink ports mentioned in this document refer to the recommended usage of the ports, and do not indicate that the corresponding ports can be used only for the downlink or uplink.

Table 4-1 S6700 switch naming convention description

Identifier	Description
A	Product type (1 character) The value is fixed at S, indicating that the device is an S series switch.
B	Role on the network (1 character) ● **6**: aggregation switch ● **5**: high-end access switch ● **3**: mid-range access switch
C	Market positioning (1 character) **7**: Enterprise series switch
D	Product sub-series (2 characters) The left character indicates the generation, for example, S6720 and S6730. The right character distinguishes different products of the same generation.
E	Industry identifier (0, 1, or 2 characters) ● By default, this field is left empty. ● **S**: channel distribution model
F	Level type (1 character) ● **H**: high-level ● **S**: standard
G	Number of downlink ports of type 1 (1 or 2 characters) **NOTE** For the S6780-H4Z, there is no fixed service port on the device panel. This field indicates the number of pluggable cards supported.
H	Downlink port of type 1 (1 character) ● **T**: GE electrical port ● **P**: GE electrical port, supporting PoE+ ● **X**: 10GE optical port ● **FX**: CFP2 hyper-converged port ● **Y**: 25GE optical port ● **C**: 100GE optical port

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Identifier	Description
I	Number of downlink ports of type 2 (0, 1, or 2 characters)
J	Downlink port of type 2 (0 or 1 character) • **T**: GE electrical port • **P**: GE electrical port, supporting PoE+ • **X**: 10GE optical port • **Y**: 25GE optical port
K	Number of uplink ports of type 1 (0 or 1 character)
L	Uplink port of type 1 (0 or 1 character) • **S**: GE optical port • **X**: 10GE optical port • **C**: 100GE optical port • **Q**: 40GE optical port • **Y**: 25GE optical port
M	Number of uplink ports of type 2 (0 or 1 character)
N	Uplink port of type 2 (0 or 1 character) • **S**: GE optical port • **X**: 10GE optical port • **C**: 100GE optical port • **Q**: 40GE optical port • **Y**: 25GE optical port
O	Support for pluggable cards (0 or 1 character) • Empty: The switch does not support pluggable cards. • **Z**: The switch supports pluggable cards.
P	Special function type (0 or 1 character) • Empty: By default, this field is left empty. • **T**: The switch supports hardware trust module (HTM).
Q	Power module type (0, 1, or 2 characters) • Empty: The switch uses pluggable power modules. • **A**: The switch is sold with an AC power module. • **D**: The switch is sold with a DC power module.

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Identifier	Description
R	Version type (0, 1, or 2 characters) • Empty: By default, this field is left empty. • **V2**: differentiates the models that are of the same series but use different software platforms. For example, the S6732-H and S6732-H-V2 use different software platforms. • **TV2**: The TV2 models use the same software platform as the V2 models and support hardware trust module (HTM).

4.3 Port Numbering Conventions

Physical ports are numbered in the following way:

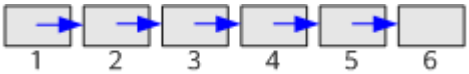
A single switch uses slot ID/subcard ID/port sequence number to identify physical ports.

- Slot ID: indicates the slot where the switch is located. The value is 1.
- Subcard ID: indicates the ID of a subcard. The default value is 0 for models without subcards.
- Port sequence number: indicates the sequence number of a port on the switch.

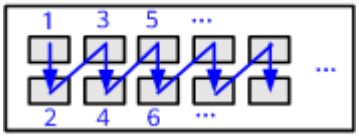
A stacked switch uses stack ID/subcard ID/port sequence number to identify physical ports.

- Stack ID: indicates the ID of a stacked switch. The value ranges from 1 to 9.
- Subcard ID: indicates the ID of a subcard. The default value is 0 for models without subcards.
- Port sequence number: indicates the sequence number of a port on the switch.

Table 4-2 Port numbering conventions

Port Numbering Diagram	Description
	There is one rows of service ports on the device. These ports are numbered from left to right, starting from 1. Ports of different speeds are numbered separately. For example, the first GE port is numbered GE1/0/1, the first 10GE port is numbered 10GE1/0/1. Ports with the same rate are numbered in ascending order.

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Port Numbering Diagram	Description
	There are two rows of service ports on the device. These ports are numbered from top to bottom and left to right, starting from 1. For example, the port on the top left is numbered 1/0/1. Ports of different speeds are numbered separately. For example, the first GE port is numbered GE1/0/1, the first 10GE port is numbered 10GE1/0/1, and the first 40GE port is numbered 40GE1/0/1. Ports with the same rate are numbered in ascending order.

4.4 S6730-H-V2

4.4.1 S6730-H24X6C-V2

Overview

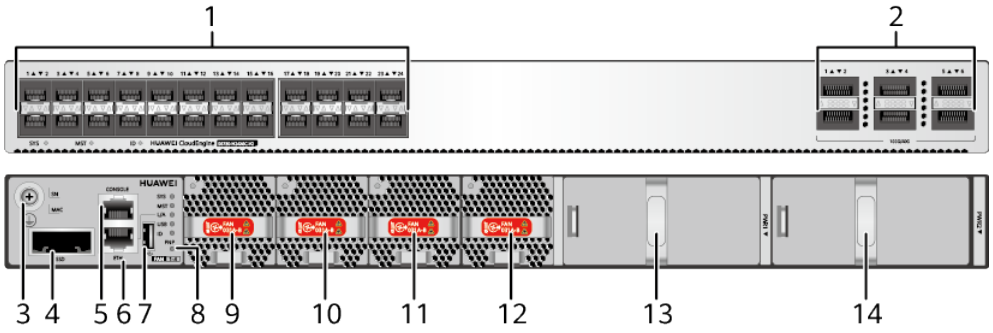
Table 4-3 Basic information about the S6730-H24X6C-V2

Item	Details
Description	S6730-H24X6C-V2 (24*10GE SFP+ ports, 6*40GE QSFP28 ports, optional license for upgrade to 6*100GE QSFP28, without power module)
Part Number	02354HHV
Model	S6730-H24X6C-V2
First supported version	V600R022C00
Remarks	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands.

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Components

Figure 4-2 S6730-H24X6C-V2 appearance



1	Twenty-four 10GE SFP+ ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the **license active** command to activate the license, and then run the **active port-license** and **port mode 100GE interface** commands.
3	Ground screw **NOTE** It is used with a **ground cable**.	4	SSD card slot **NOTE** This slot is reserved and cannot be used.
5	One console port	6	One ETH management port
7	One USB port	8	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
9	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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11	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 4 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **5.4 PAC600S12-CB (600 W AC&240 V DC Power Module)** • **5.6 PAC600S12-EB (600 W AC&240 V DC Power Module)** • **5.5 PAC600S12-DB (600 W AC&240 V DC Power Module)** • **5.8 PDC1000S12-DB (1000 W DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.4 PAC600S12-CB (600 W AC&240 V DC Power Module)** • **5.6 PAC600S12-EB (600 W AC&240 V DC Power Module)** • **5.5 PAC600S12-DB (600 W AC&240 V DC Power Module)** • **5.8 PDC1000S12-DB (1000 W DC Power Module)**

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Ports

Table 4-4 Ports on the S6730-H24X6C-V2

Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+**

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Port	Connector Type	Description	Available Components
			dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands. QSFP28 optical ports cannot be split.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **100GE QSFP28 optical modules (supported with a license loaded)** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00, supported with a license loaded)** • **10 m QSFP28 to QSFP28 AOC cable (supported with a license loaded)** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking,**

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Port	Connector Type	Description	Available Components
			supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

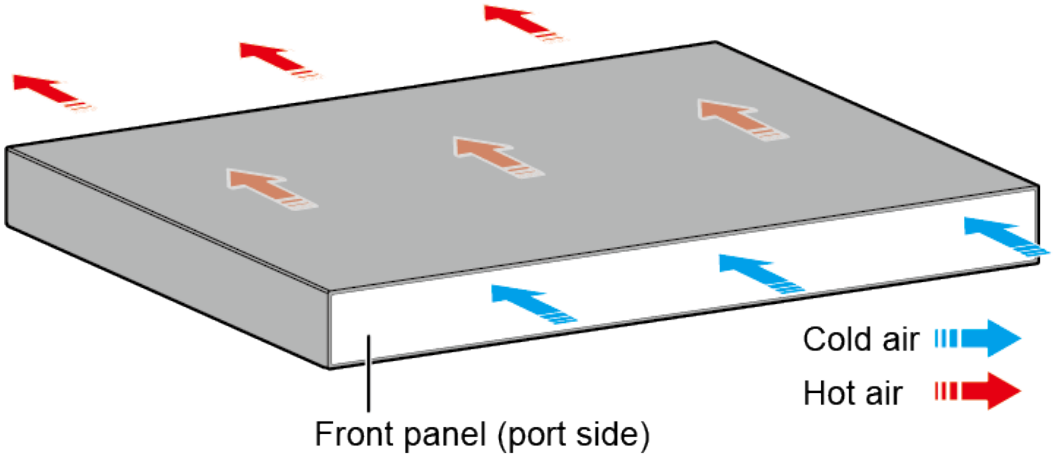
The S6730-H24X6C-V2 has the same types of indicators as the S6730-H48X6C-V2. For details, see the S6730-H48X6C-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-5 Technical specifications of the S6730-H24X6C-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.62 kg (12.39 lb)
Weight with packaging [kg(lb)]	8.9 kg (19.62 lb)
Typical power consumption [W]	149 W
Typical heat dissipation [BTU/hour]	508.4 BTU/hour
Maximum power consumption [W]	High temperature 45°C (113°F), 100% traffic, and dual power modules: 181 W High temperature 45°C (113°F), 100% traffic, long-distance optical module, 100% fan speed, and dual power modules: 254 W
Maximum heat dissipation [BTU/hour]	High temperature 45°C (113°F), 100% traffic, and dual power modules: 617.59 High temperature 45°C (113°F), 100% traffic, long-distance optical module, 100% fan speed, and dual power modules: 866.67
Static power consumption [W]	97 W
MTBF [years]	62.27 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	65 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	52 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	4
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.

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Item	Specification
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	-40°C to +70°C (-40°F to +158°F)
Long-term operating relative humidity [RH]	5% to 95%, noncondensing
Long-term operating altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90–290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications depend on the pluggable power modules in use. For details, see the related power module specifications.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported

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Item	Specification
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• AC power module configured: ±6 kV in differential mode, ±6 kV in common mode • DC power module configured: ±2 kV in differential mode, ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Heat dissipation with fan, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.2 S6730-H24X6C-TV2

Overview

Table 4-6 Basic information about the S6730-H24X6C-TV2

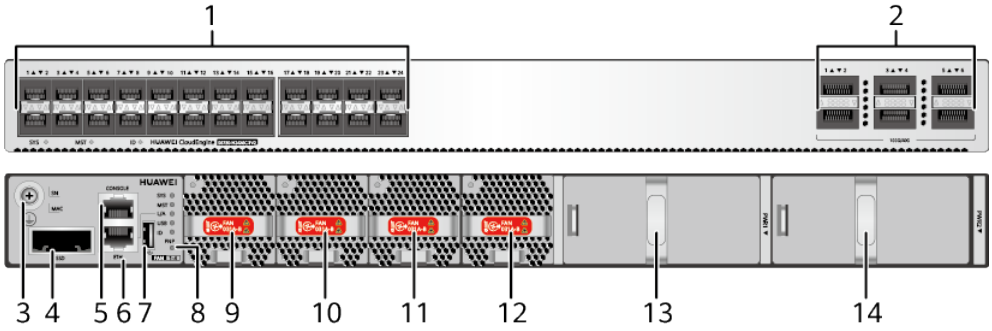
Item	Details
Description	S6730-H24X6C-TV2(24*10GE SFP+ ports, 6*40GE QSFP28 ports, optional license for upgrade to 6*100GE QSFP28, HTM, without power module)
Part Number	02354NGS
Model	S6730-H24X6C-TV2
First supported version	V600R022C00

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Item	Details
Remarks	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands.

Components

Figure 4-3 S6730-H24X6C-TV2 appearance



1	Twenty-four 10GE SFP+ ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the **license active** command to activate the license, and then run the **active port-license** and **port mode 100GE interface** commands.
3	Ground screw **NOTE** It is used with a **ground cable**.	4	SSD card slot **NOTE** This slot is reserved and cannot be used.
5	One console port	6	One ETH management port

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7	One USB port	8	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
9	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 4 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **5.4 PAC600S12-CB (600 W AC&240 V DC Power Module)** • **5.6 PAC600S12-EB (600 W AC&240 V DC Power Module)** • **5.5 PAC600S12-DB (600 W AC&240 V DC Power Module)** • **5.8 PDC1000S12-DB (1000 W DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.4 PAC600S12-CB (600 W AC&240 V DC Power Module)** • **5.6 PAC600S12-EB (600 W AC&240 V DC Power Module)** • **5.5 PAC600S12-DB (600 W AC&240 V DC Power Module)** • **5.8 PDC1000S12-DB (1000 W DC Power Module)**

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Ports

Table 4-7 Ports on the S6730-H24X6C-TV2

Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+**

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Port	Connector Type	Description	Available Components
			dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands. QSFP28 optical ports cannot be split.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **100GE QSFP28 optical modules (supported with a license loaded)** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00, supported with a license loaded)** • **10 m QSFP28 to QSFP28 AOC cable (supported with a license loaded)** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking,**

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Port	Connector Type	Description	Available Components
			supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

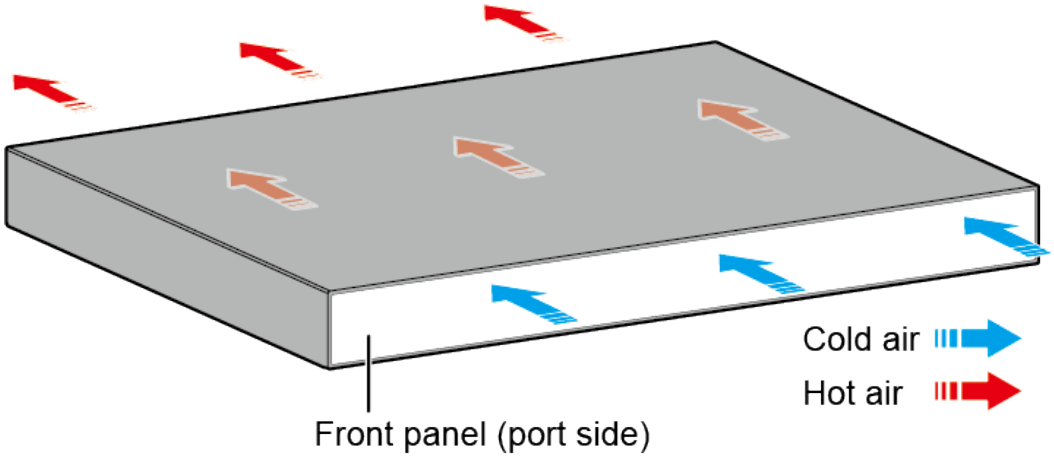
The S6730-H24X6C-TV2 has the same types of indicators as the S6730-H48X6C-TV2. For details, see the S6730-H48X6C-TV2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-8 Technical specifications of the S6730-H24X6C-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)

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Item	Specification
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.62 kg (12.39 lb)
Weight with packaging [kg(lb)]	8.9 kg (19.62 lb)
Typical power consumption [W]	149 W
Typical heat dissipation [BTU/hour]	508.4 BTU/hour
Maximum power consumption [W]	High temperature 45°C (113°F), 100% traffic, and dual power modules: 181 W High temperature 45°C (113°F), 100% traffic, long-distance optical module, 100% fan speed, and dual power modules: 254 W
Maximum heat dissipation [BTU/hour]	High temperature 45°C (113°F), 100% traffic, and dual power modules: 617.59 High temperature 45°C (113°F), 100% traffic, long-distance optical module, 100% fan speed, and dual power modules: 866.67
Static power consumption [W]	97 W
MTBF [years]	62.27 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	65 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	52 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	4
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.51 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% to 95%, noncondensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90–290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications depend on the pluggable power modules in use. For details, see the related power module specifications.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported

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Item	Specification
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• AC power module configured: ±6 kV in differential mode, ±6 kV in common mode • DC power module configured: ±2 kV in differential mode, ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling and intelligent speed adjustment
Airflow direction	Air intake from the front and air exhaust from the rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.3 S6730-H48X6C-V2

Overview

Table 4-9 Basic information about the S6730-H48X6C-V2

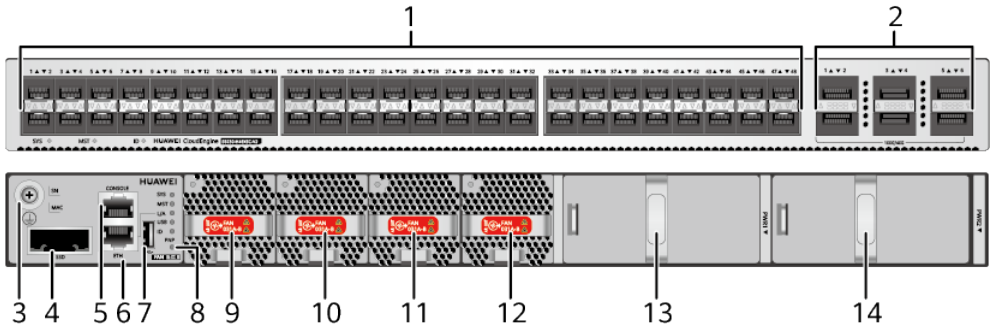
Item	Details
Description	S6730-H48X6C-V2 (48*10GE SFP+ ports, 6*40GE QSFP28 ports, optional license for upgrade to 6*100GE QSFP28, without power module)
Part Number	02354HHT
Model	S6730-H48X6C-V2
First supported version	V600R022C00

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Item	Details
Remarks	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands.

Components

Figure 4-4 S6730-H48X6C-V2 appearance



1	Forty-eight 10GE SFP+ ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the **license active** command to activate the license, and then run the **active port-license** and **port mode 100GE interface** commands.
3	Ground screw **NOTE** It is used with a **ground cable**.	4	SSD card slot **NOTE** This slot is reserved and cannot be used.
5	One console port	6	One ETH management port

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7	One USB port	8	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
9	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 4 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **5.4 PAC600S12-CB (600 W AC&240 V DC Power Module)** • **5.6 PAC600S12-EB (600 W AC&240 V DC Power Module)** • **5.5 PAC600S12-DB (600 W AC&240 V DC Power Module)** • **5.8 PDC1000S12-DB (1000 W DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.4 PAC600S12-CB (600 W AC&240 V DC Power Module)** • **5.6 PAC600S12-EB (600 W AC&240 V DC Power Module)** • **5.5 PAC600S12-DB (600 W AC&240 V DC Power Module)** • **5.8 PDC1000S12-DB (1000 W DC Power Module)**

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Ports

Table 4-10 Ports on the S6730-H48X6C-V2

Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+**

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Port	Connector Type	Description	Available Components
			dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands. QSFP28 optical ports cannot be split.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **100GE QSFP28 optical modules (supported with a license loaded)** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00, supported with a license loaded)** • **10 m QSFP28 to QSFP28 AOC cable (supported with a license loaded)** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking,**

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Port	Connector Type	Description	Available Components
			supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-5 Indicators on the switch

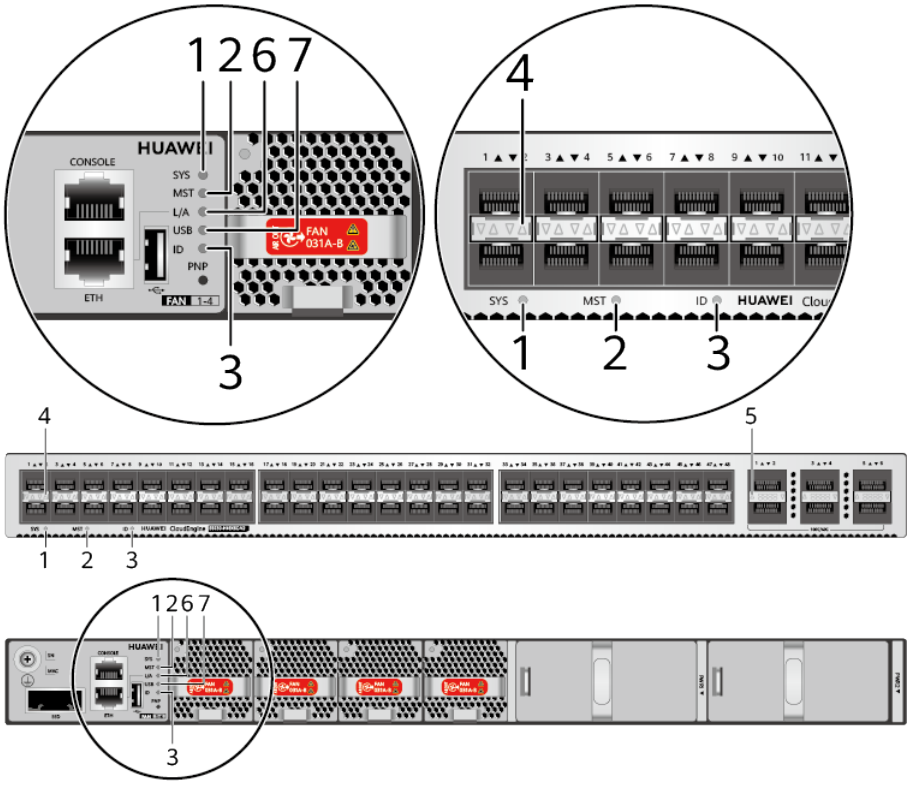


Table 4-11 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).

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No.	Indicator	Name	Color	Status	Description
2	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
3	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
4	-	Service port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			Meanings of service port indicators vary in different modes. For details, see **Table 4-12** and **Table 4-13**.
5	-	Service port indicator (one indicator for each port) **NOTE** Each optical port has one single-color indicator. Arrowheads show the positions of ports.			
6	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.
7	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-12 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	Green	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	Yellow	Off	The port is not sending or receiving data.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. Thedefault mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s.
	Green	Blinking	• 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s.

Table 4-13 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.

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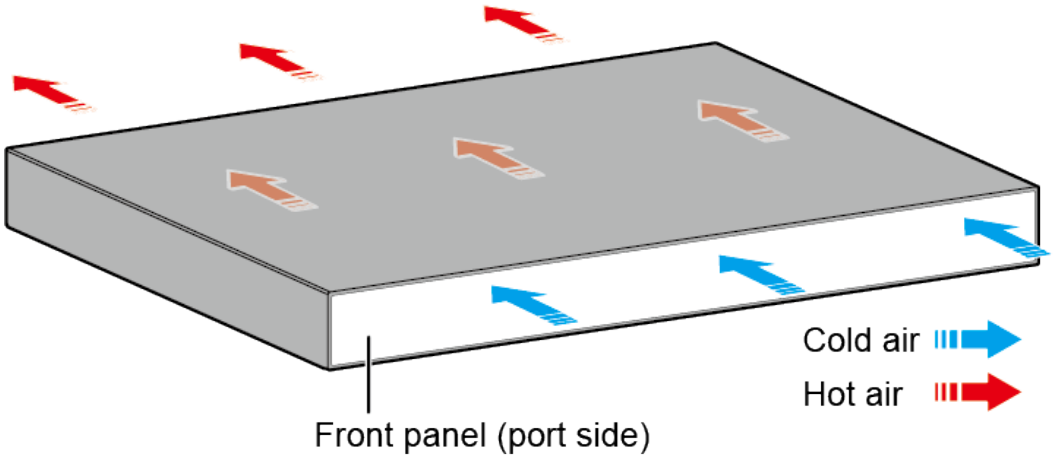
Display Mode	Color	Status	Description
	Green	Blinking	The port is sending or receiving data.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. Thedefault mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	• 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s. • 40GE QSFP+ port: The port is operating at 40 Gbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-14 Technical specifications of the S6730-H48X6C-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.84 kg (12.87 lb)
Weight with packaging [kg(lb)]	9.2 kg (20.28 lb)
Typical power consumption [W]	165 W
Typical heat dissipation [BTU/hour]	563 BTU/hour
Maximum power consumption [W]	High temperature 45°C (113°F), 100% traffic, and dual power modules: 207 W High temperature 45°C (113°F), 100% traffic, long-distance optical module, 100% fan speed, and dual power modules: 291 W
Maximum heat dissipation [BTU/hour]	High temperature 45°C (113°F), 100% traffic, and dual power modules: 706.30 High temperature 45°C (113°F), 100% traffic, long-distance optical module, 100% fan speed, and dual power modules: 992.92
Static power consumption [W]	97 W
MTBF [years]	56.87 years
MTTR [hours]	2 hours
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	65 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	52 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	4
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	-5°C to +45°C (23°F to 113°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	-40°C to +70°C (-40°F to +158°F)
Long-term operating relative humidity [RH]	5% to 95%, noncondensing
Long-term operating altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90–290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC

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Item	Specification
Maximum input current [A]	The current specifications depend on the pluggable power modules in use. For details, see the related power module specifications.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• AC power module configured: ±6 kV in differential mode, ±6 kV in common mode • DC power module configured: ±2 kV in differential mode, ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Heat dissipation with fan, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.4 S6730-H48X6C-TV2

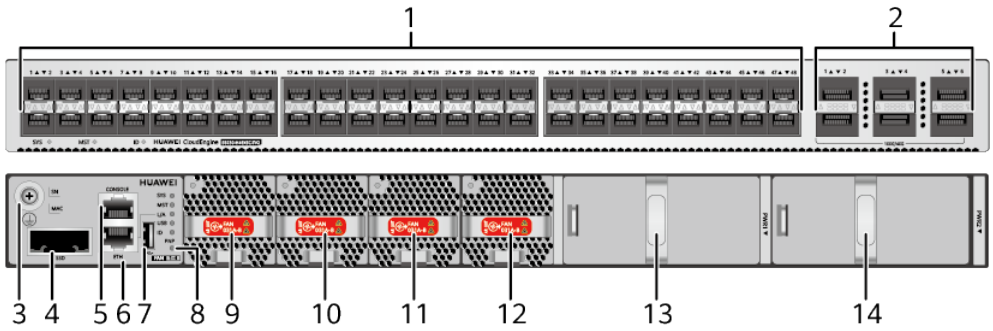
Overview

Table 4-15 Basic information about the S6730-H48X6C-TV2

Item	Details
Description	S6730-H48X6C-TV2(48*10GE SFP+ ports, 6*40GE QSFP28 ports, optional license for upgrade to 6*100GE QSFP28, HTM, without power module)
Part Number	02354NGT
Model	S6730-H48X6C-TV2
First supported version	V600R022C00
Remarks	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands.

Components

Figure 4-6 S6730-H48X6C-TV2 appearance



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1	Forty-eight 10GE SFP+ ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the **license active** command to activate the license, and then run the **active port-license** and **port mode 100GE interface** commands.
3	Ground screw **NOTE** It is used with a **ground cable**.	4	SSD card slot **NOTE** This slot is reserved and cannot be used.
5	One console port	6	One ETH management port
7	One USB port	8	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.
9	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 4 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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13	Power module slot 1 **NOTE** Applicable power modules: • **5.4 PAC600S12-CB (600 W AC&240 V DC Power Module)** • **5.6 PAC600S12-EB (600 W AC&240 V DC Power Module)** • **5.5 PAC600S12-DB (600 W AC&240 V DC Power Module)** • **5.8 PDC1000S12-DB (1000 W DC Power Module)**	14	Power module slot 2 **NOTE** Applicable power modules: • **5.4 PAC600S12-CB (600 W AC&240 V DC Power Module)** • **5.6 PAC600S12-EB (600 W AC&240 V DC Power Module)** • **5.5 PAC600S12-DB (600 W AC&240 V DC Power Module)** • **5.8 PDC1000S12-DB (1000 W DC Power Module)**

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Ports

Table 4-16 Ports on the S6730-H48X6C-TV2

Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+**

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Port	Connector Type	Description	Available Components
			dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands. QSFP28 optical ports cannot be split.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **100GE QSFP28 optical modules (supported with a license loaded)** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00, supported with a license loaded)** • **10 m QSFP28 to QSFP28 AOC cable (supported with a license loaded)** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking,**

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Port	Connector Type	Description	Available Components
			supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-7 Indicators on the switch

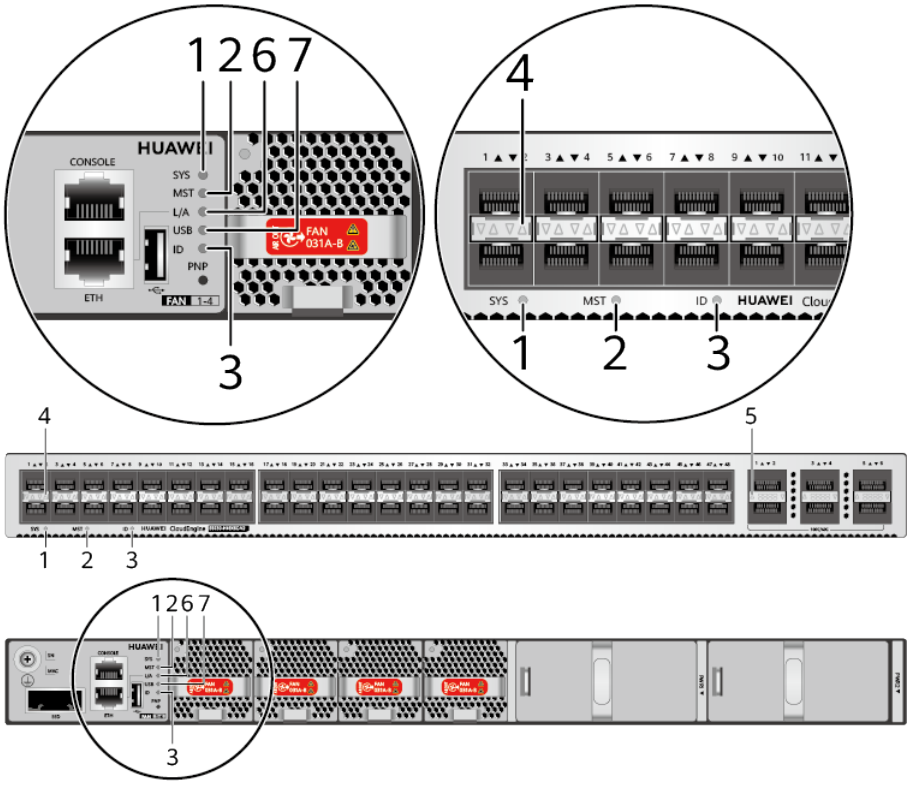


Table 4-17 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).

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No.	Indicator	Name	Color	Status	Description
2	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
3	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
4	-	Service port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			Meanings of service port indicators vary in different modes. For details, see **Table 4-18** and **Table 4-19**.
5	-	Service port indicator (one indicator for each port) **NOTE** Each optical port has one single-color indicator. Arrowheads show the positions of ports.			
6	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.
7	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.

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No.	Indicator	Name	Color	Status	Description
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-18 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	Green	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	Yellow	Off	The port is not sending or receiving data.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. Thedefault mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 1GE/10GE SFP+ port: The port is operating at 1 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s.
	Green	Blinking	• 1GE/10GE SFP+ port: The port is operating at 10 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s.

Table 4-19 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.

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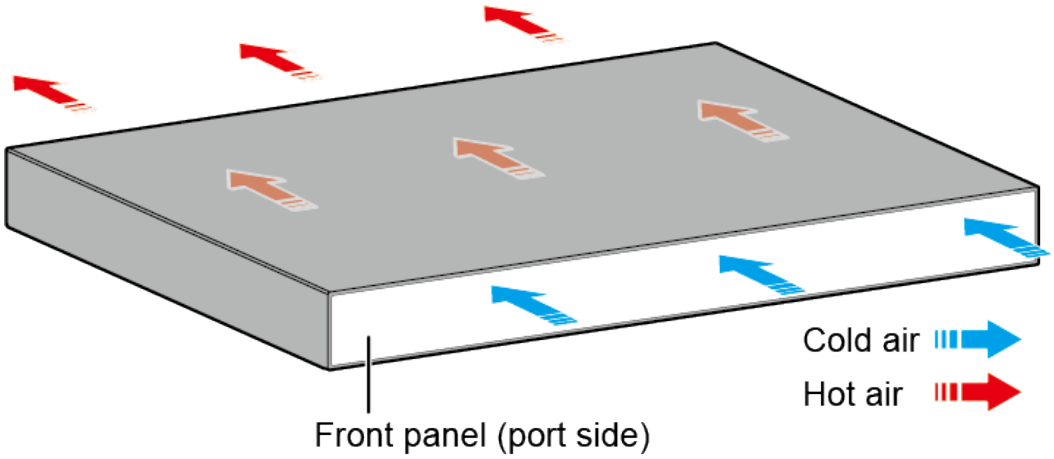
Display Mode	Color	Status	Description
	Green	Blinking	The port is sending or receiving data.
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. Thedefault mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	• 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s. • 40GE QSFP+ port: The port is operating at 40 Gbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-20 Technical specifications of the S6730-H48X6C-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.84 kg (12.87 lb)
Weight with packaging [kg(lb)]	9.2 kg (20.28 lb)
Typical power consumption [W]	165 W
Typical heat dissipation [BTU/hour]	563 BTU/hour
Maximum power consumption [W]	High temperature 45°C (113°F), 100% traffic, and dual power modules: 207 W High temperature 45°C (113°F), 100% traffic, long-distance optical module, 100% fan speed, and dual power modules: 291 W
Maximum heat dissipation [BTU/hour]	High temperature 45°C (113°F), 100% traffic, and dual power modules: 706.30 High temperature 45°C (113°F), 100% traffic, long-distance optical module, 100% fan speed, and dual power modules: 992.92
Static power consumption [W]	97 W
MTBF [years]	56.87 years
MTTR [hours]	2 hours
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	65 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	52 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	4
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.51 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% to 95%, noncondensing
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90–290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications depend on the pluggable power modules in use. For details, see the related power module specifications.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• AC power module configured: ±6 kV in differential mode, ±6 kV in common mode • DC power module configured: ±2 kV in differential mode, ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling and intelligent speed adjustment
Airflow direction	Air intake from the front and air exhaust from the rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.5 S6730-H48Y6C-V2

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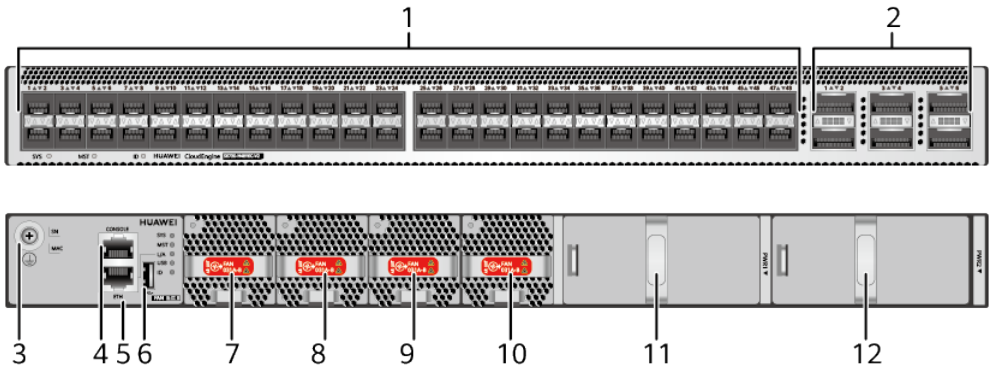
Overview

Table 4-21 Basic information about the S6730-H48Y6C-V2

Item	Details
Description	S6730-H48Y6C-V2(48*25GE SFP28 ports, 6*100GE QSFP28 ports, without power module)
Part Number	02354NGU
Model	S6730-H48Y6C-V2
First supported version	V600R022C00

Components

Figure 4-8 S6730-H48Y6C-V2 appearance



1	Forty-eight 1GE/10GE/25GE SFP28 optical ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** The default rate of a QSFP28 port is 100GE.
3	Ground screw **NOTE** It is used with a **ground cable**.	4	One console port
5	One ETH management port	6	One USB port
7	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	8	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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9	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 4 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Power module slot 1 **NOTE** Applicable power modules: • **5.4 PAC600S12-CB (600 W AC&240 V DC Power Module)** • **5.6 PAC600S12-EB (600 W AC&240 V DC Power Module)** • **5.5 PAC600S12-DB (600 W AC&240 V DC Power Module)** • **5.8 PDC1000S12-DB (1000 W DC Power Module)**	12	Power module slot 2 **NOTE** Applicable power modules: • **5.4 PAC600S12-CB (600 W AC&240 V DC Power Module)** • **5.6 PAC600S12-EB (600 W AC&240 V DC Power Module)** • **5.5 PAC600S12-DB (600 W AC&240 V DC Power Module)** • **5.8 PDC1000S12-DB (1000 W DC Power Module)**

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Ports

Table 4-22 Ports on the S6730-H48Y6C-V2

Port	Connector Type	Description	Available Components
1GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module on a port, run the port mode ge command to configure the port to work at 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable (only used for stack connection in**

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Port	Connector Type	Description	Available Components
			versions earlier than V600R023C00) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables**

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. QSFP28 optical ports cannot be split.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S6730-H48Y6C-V2 has the same types of indicators as the S6730-H48X6C-V2. For details, see the S6730-H48X6C-V2.

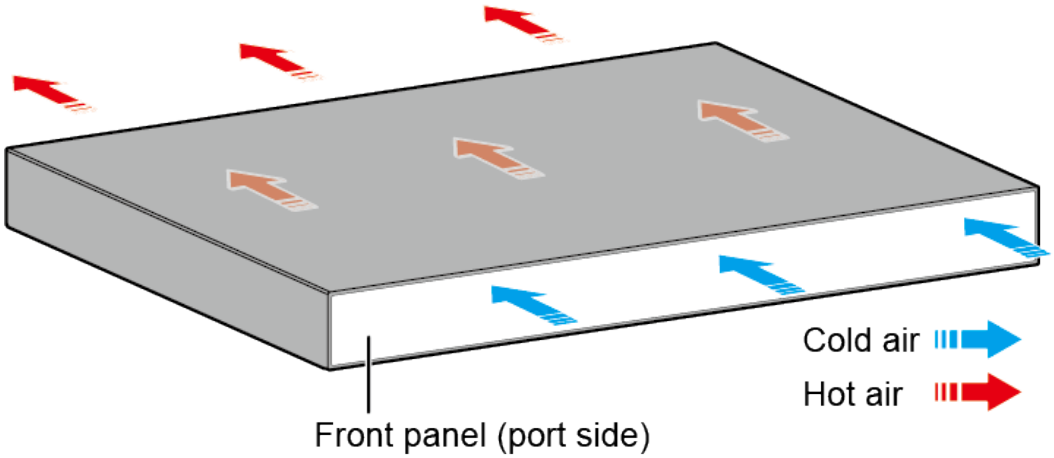
Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

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Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-23 Technical specifications of the S6730-H48Y6C-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.03 kg (15.50 lb)
Weight with packaging [kg(lb)]	10.01 kg (22.07 lb)
Typical power consumption [W]	256 W
Typical heat dissipation [BTU/hour]	873.50 BTU/hour

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Item	Specification
Maximum power consumption [W]	384 W
Maximum heat dissipation [BTU/hour]	1310.25 BTU/hour
Static power consumption [W]	167 W
MTBF [years]	47.81 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	67 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	58 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	4
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90–290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications depend on the pluggable power modules in use. For details, see the related power module specifications.
Memory	4 GB
Flash memory	Physical space: 4 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• AC power module configured: ±6 kV in differential mode, ±6 kV in common mode • DC power module configured: ±2 kV in differential mode, ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.4.6 S6730-H48Y6C-TV2

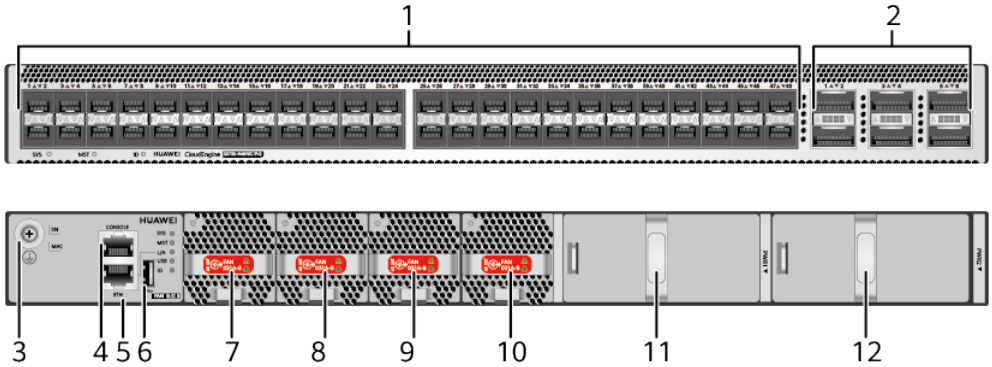
Overview

Table 4-24 Basic information about the S6730-H48Y6C-TV2

Item	Details
Description	S6730-H48Y6C-TV2(48*25GE SFP28 ports+ ports, 6*100GE QSFP28 ports, HTM, without power module)
Part Number	02354NGV
Model	S6730-H48Y6C-TV2
First supported version	V600R022C00

Components

Figure 4-9 S6730-H48Y6C-TV2 appearance



1	Forty-eight 1GE/10GE/25GE SFP28 optical ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** The default rate of a QSFP28 port is 100GE.

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3	Ground screw **NOTE** It is used with a **ground cable**.	4	One console port
5	One ETH management port	6	One USB port
7	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	8	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
9	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 4 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Power module slot 1 **NOTE** Applicable power modules: • **5.4 PAC600S12-CB (600 W AC&240 V DC Power Module)** • **5.6 PAC600S12-EB (600 W AC&240 V DC Power Module)** • **5.5 PAC600S12-DB (600 W AC&240 V DC Power Module)** • **5.8 PDC1000S12-DB (1000 W DC Power Module)**	12	Power module slot 2 **NOTE** Applicable power modules: • **5.4 PAC600S12-CB (600 W AC&240 V DC Power Module)** • **5.6 PAC600S12-EB (600 W AC&240 V DC Power Module)** • **5.5 PAC600S12-DB (600 W AC&240 V DC Power Module)** • **5.8 PDC1000S12-DB (1000 W DC Power Module)**

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Ports

Table 4-25 Ports on the S6730-H48Y6C-TV2

Port	Connector Type	Description	Available Components
1GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module on a port, run the port mode ge command to configure the port to work at 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **1 m SFP28 high-speed copper cable (only used for stack connection in**

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Port	Connector Type	Description	Available Components
			versions earlier than V600R023C00) • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables**

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. QSFP28 optical ports cannot be split.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S6730-H48Y6C-TV2 has the same types of indicators as the S6730-H48X6C-TV2. For details, see the S6730-H48X6C-TV2.

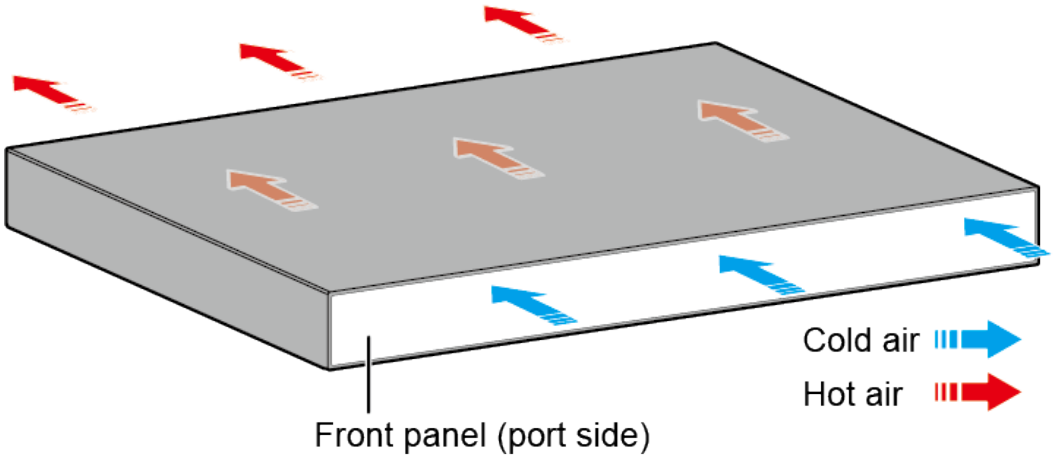
Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

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Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-26 Technical specifications of the S6730-H48Y6C-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.0 mm (1.72 in. x 17.40 in. x 17.56 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	175.0 mm x 650.0 mm x 550.0 mm (6.89 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.03 kg (15.50 lb)
Weight with packaging [kg(lb)]	10.01 kg (22.07 lb)
Typical power consumption [W]	256 W
Typical heat dissipation [BTU/hour]	873.50 BTU/hour

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Item	Specification
Maximum power consumption [W]	384 W
Maximum heat dissipation [BTU/hour]	1310.25 BTU/hour
Static power consumption [W]	167 W
MTBF [years]	47.81 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	67 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	58 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	4
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 4 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.4.7 S6730-H28X6CZ-V2 (02354VCR)

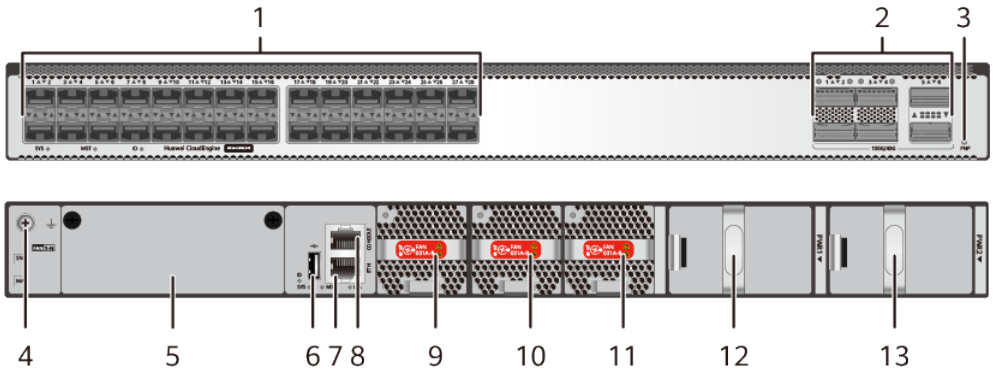
Overview

Table 4-27 Basic information about the S6730-H28X6CZ-V2

Item	Details
Description	S6730-H28X6CZ-V2 bundle (28*10GE SFP+ ports, 6*100GE QSFP28 ports, with license, 1*expansion slot, without power module)
Part Number	02354VCR
Model	S6730-H28X6CZ-V2
First supported version	V600R022C00
Remarks	By default, the 100GE RTU license has been activated on the device, and QSFP28 ports work at the rate of 40 Gbit/s. You can run the active port-license and port mode 100GE interface commands to configure QSFP28 ports to work at 100 Gbit/s.

Components

Figure 4-10 S6730-H28X6CZ-V2 appearance



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1	Twenty-eight 10GE SFP+ optical ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** By default, the 100GE RTU license has been activated on the device, and QSFP28 ports work at the rate of 40 Gbit/s. You can run the **active port-license** and **port mode 100GE interface** commands to configure QSFP28 ports to work at 100 Gbit/s.
3	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	4	Ground screw **NOTE** It is used with a **ground cable**.
5	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version)	6	One USB port
7	One ETH management port	8	One console port
9	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**

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13	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	-	-

Ports

Table 4-28 Ports on the S6730-H28X6CZ-V2

Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+**

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Port	Connector Type	Description	Available Components
			dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, the 100GE RTU license has been activated on the device, and QSFP28 ports work at the rate of 40 Gbit/s. You can run the active port-license and port mode 100GE interface commands to configure QSFP28 ports to work at 100 Gbit/s. In V600R023C10 and later versions, the last two 100GE ports can each be split into four 25GE ports using a command. The port can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **10 m QSFP+ to 4*SFP+ AOC cable (supported in V600R023C10 and later versions)** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00**

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Port	Connector Type	Description	Available Components
			and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-11 Indicators on the switch

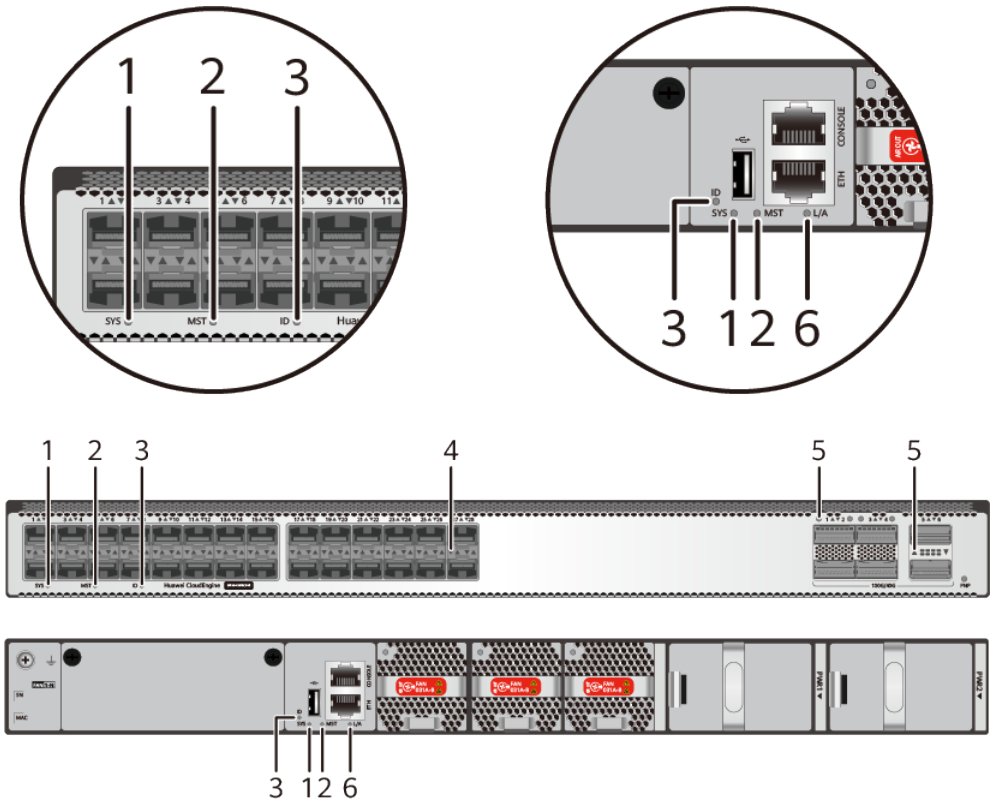


Table 4-29 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).

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No.	Indicator	Name	Color	Status	Description
2	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
3	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
4	-	Service port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			Meanings of service port indicators vary in different modes. For details, see **Table 4-30** and **Table 4-31**.
5	-	Service port indicator (one indicator for each port) **NOTE** Each optical port has one single-color indicator. Arrowheads show the positions of ports.			
6	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.

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Table 4-30 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	Green	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	Yellow	Off	The port is not sending or receiving data.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. Thedefault mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Table 4-31 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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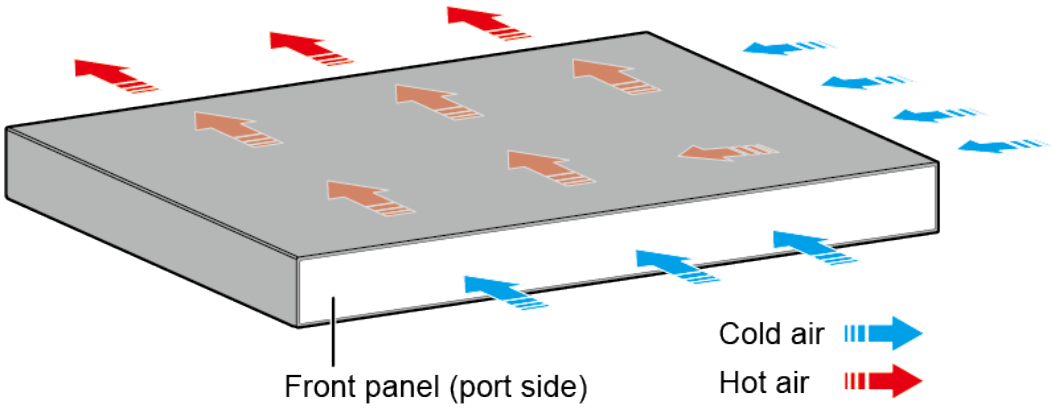
Display Mode	Color	Status	Description
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. Thedefault mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-32 Technical specifications of the S6730-H28X6CZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 455.0 mm (1.72 in. x 17.4 in. x 17.91 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.06 kg (15.56 lb)
Weight with packaging [kg(lb)]	10.04 kg (22.13 lb)
Typical power consumption [W]	203 W
Typical heat dissipation [BTU/hour]	692.66 BTU/hour
Maximum power consumption [W]	263 W
Maximum heat dissipation [BTU/hour]	897.38 BTU/hour
Static power consumption [W]	136 W
MTBF [years]	52.24 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	53.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.72 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	3

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Item	Specification
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45

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Item	Specification
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.8 S6730-H28X6CZ-TV2 (02354VCS)

Overview

Table 4-33 Basic information about the S6730-H28X6CZ-TV2

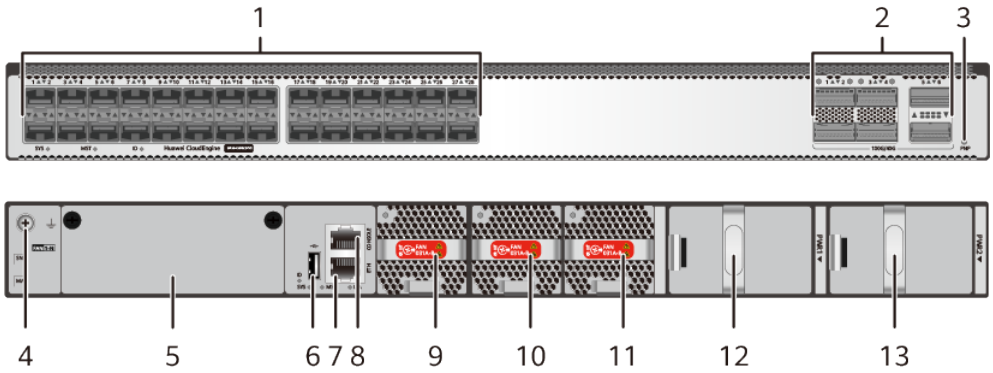
Item	Details
Description	S6730-H28X6CZ-TV2 bundle (28*10GE SFP+ ports, 6*100GE QSFP28 ports, with license, 1*expansion slot, HTM, without power module)
Part Number	02354VCS
Model	S6730-H28X6CZ-TV2

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Item	Details
First supported version	V600R022C00
Remarks	By default, the 100GE RTU license has been activated on the device, and QSFP28 ports work at the rate of 40 Gbit/s. You can run the active port-license and port mode 100GE interface commands to configure QSFP28 ports to work at 100 Gbit/s.

Components

Figure 4-12 S6730-H28X6CZ-TV2 appearance



1	Twenty-eight 10GE SFP+ optical ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** By default, the 100GE RTU license has been activated on the device, and QSFP28 ports work at the rate of 40 Gbit/s. You can run the **active port-license** and **port mode 100GE interface** commands to configure QSFP28 ports to work at 100 Gbit/s.
3	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	4	Ground screw **NOTE** It is used with a **ground cable**.

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5	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version)	6	One USB port
7	One ETH management port	8	One console port
9	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**
13	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	-	-

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Ports

Table 4-34 Ports on the S6730-H28X6CZ-TV2

Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+**

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Port	Connector Type	Description	Available Components
			dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, the 100GE RTU license has been activated on the device, and QSFP28 ports work at the rate of 40 Gbit/s. You can run the active port-license and port mode 100GE interface commands to configure QSFP28 ports to work at 100 Gbit/s. In V600R023C10 and later versions, the last two 100GE ports can each be split into four 25GE ports using a command. The port can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **10 m QSFP+ to 4*SFP+ AOC cable (supported in V600R023C10 and later versions)** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00**

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Port	Connector Type	Description	Available Components
			and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-13 Indicators on the switch

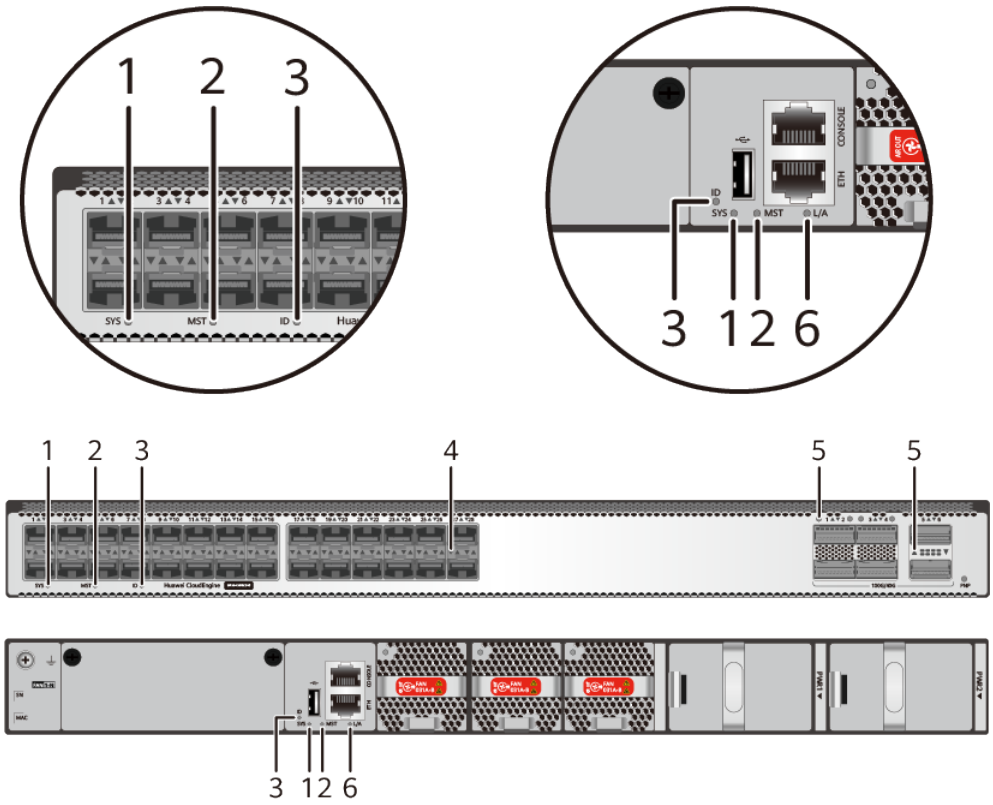


Table 4-35 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).

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No.	Indicator	Name	Color	Status	Description
2	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
3	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
4	-	Service port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			Meanings of service port indicators vary in different modes. For details, see **Table 4-36** and **Table 4-37**.
5	-	Service port indicator (one indicator for each port) **NOTE** Each optical port has one single-color indicator. Arrowheads show the positions of ports.			
6	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.

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Table 4-36 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	Green	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	Yellow	Off	The port is not sending or receiving data.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. Thedefault mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Table 4-37 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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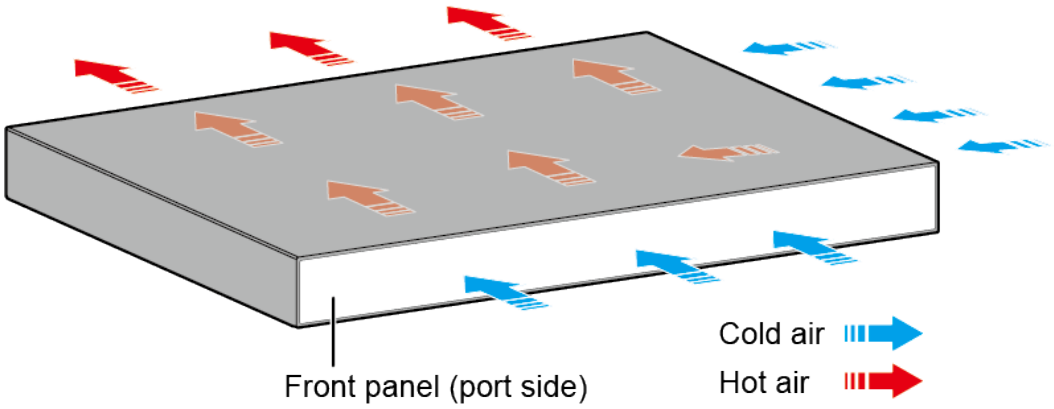
Display Mode	Color	Status	Description
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. Thedefault mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-38 Technical specifications of the S6730-H28X6CZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 455.0 mm (1.72 in. x 17.4 in. x 17.91 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.06 kg (15.56 lb)
Weight with packaging [kg(lb)]	10.04 kg (22.13 lb)
Typical power consumption [W]	203 W
Typical heat dissipation [BTU/hour]	692.66 BTU/hour
Maximum power consumption [W]	263 W
Maximum heat dissipation [BTU/hour]	897.38 BTU/hour
Static power consumption [W]	136 W
MTBF [years]	52.24 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	53.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.72 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	3

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Item	Specification
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45

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Item	Specification
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.9 S6730-H28X6CZ-V2 (02354VUF)

Overview

Table 4-39 Basic information about the S6730-H28X6CZ-V2

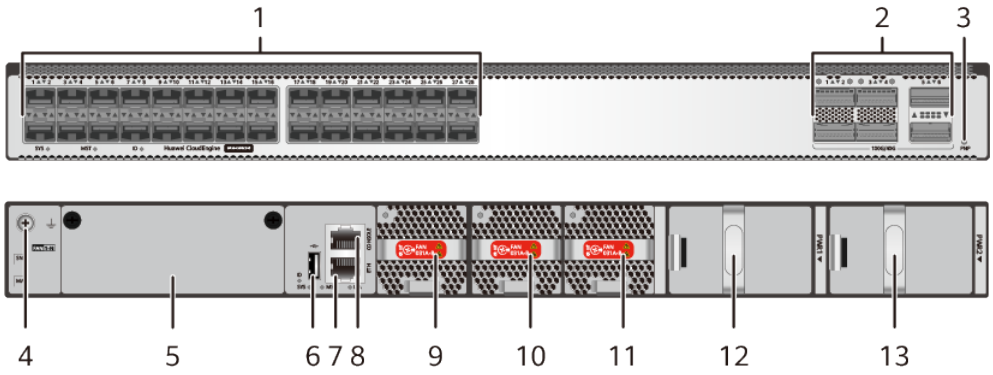
Item	Details
Description	S6730-H28X6CZ-V2 (28*10GE SFP+ ports, 6*40GE QSFP ports, optional license for upgrade to 6*100GE QSFP28 ports, 1*expansion slot, without power module)
Part Number	02354VUF

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Item	Details
Model	S6730-H28X6CZ-V2
First supported version	V600R022C00
Remarks	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands.

Components

Figure 4-14 S6730-H28X6CZ-V2 appearance



1	Twenty-eight 10GE SFP+ optical ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the **license active** command to activate the license, and then run the **active port-license** and **port mode 100GE interface** commands.

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3	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	4	Ground screw **NOTE** It is used with a **ground cable**.
5	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version)	6	One USB port
7	One ETH management port	8	One console port
9	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**
13	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	-	-

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Ports

Table 4-40 Ports on the S6730-H28X6CZ-V2

Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+**

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Port	Connector Type	Description	Available Components
			dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands. In V600R023C10 and later versions, the last two 100GE ports can each be split into four 25GE ports using a command. The port can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **10 m QSFP+ to 4*SFP+ AOC cable (supported in V600R023C10 and later versions)** • **100GE QSFP28 optical modules (supported with a license loaded)** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00, supported with a license loaded)** • **10 m QSFP28 to QSFP28 AOC cable (supported with a license loaded)**

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Port	Connector Type	Description	Available Components
			• 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-15 Indicators on the switch

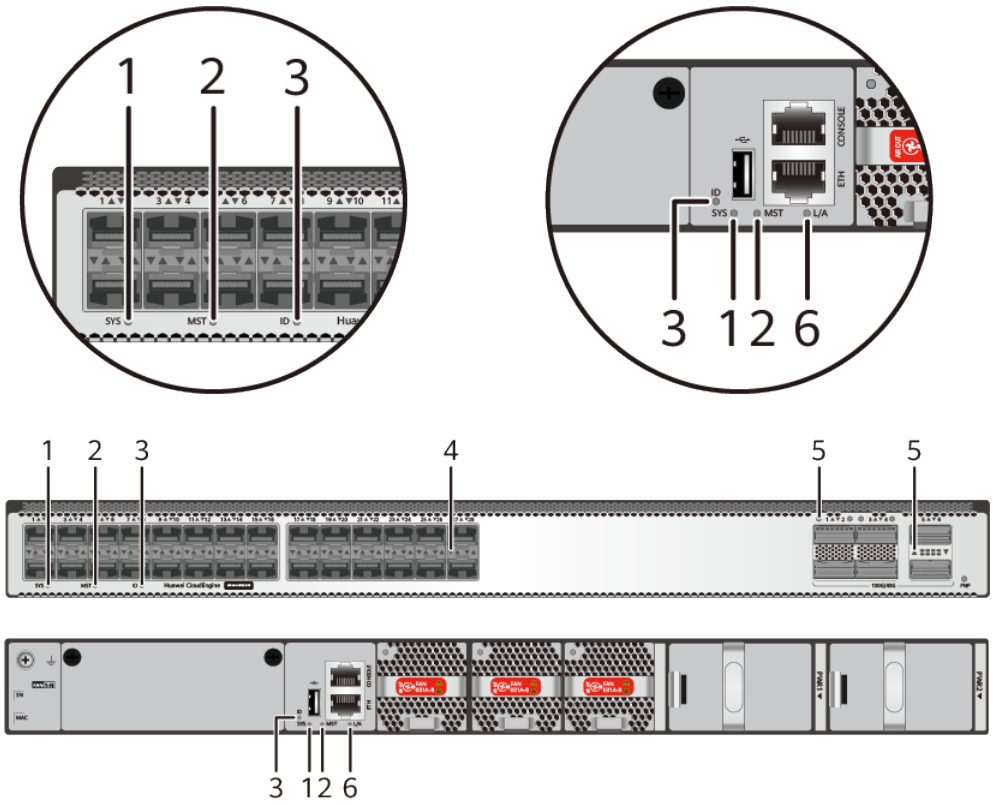


Table 4-41 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).

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No.	Indicator	Name	Color	Status	Description
2	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
3	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
4	-	Service port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			Meanings of service port indicators vary in different modes. For details, see **Table 4-42** and **Table 4-43**.
5	-	Service port indicator (one indicator for each port) **NOTE** Each optical port has one single-color indicator. Arrowheads show the positions of ports.			
6	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.

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Table 4-42 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	Green	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	Yellow	Off	The port is not sending or receiving data.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. Thedefault mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Table 4-43 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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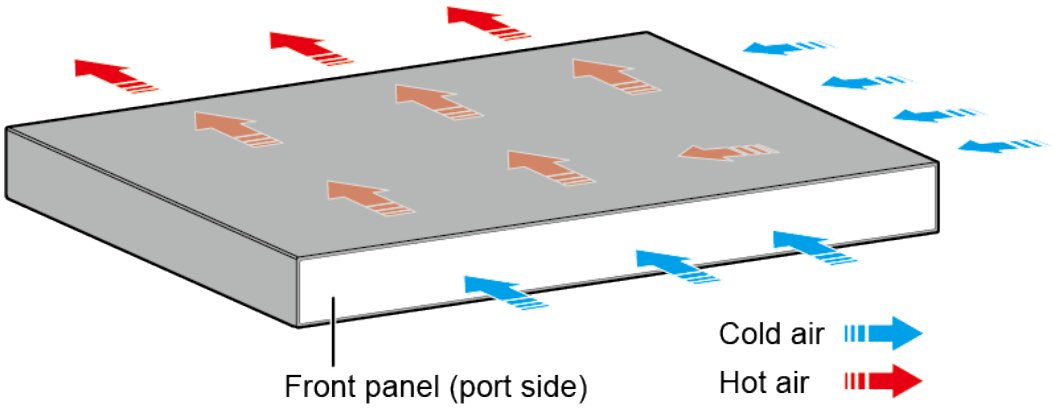
Display Mode	Color	Status	Description
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. Thedefault mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-44 Technical specifications of the S6730-H28X6CZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 455.0 mm (1.72 in. x 17.4 in. x 17.91 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.06 kg (15.56 lb)
Weight with packaging [kg(lb)]	10.04 kg (22.13 lb)
Typical power consumption [W]	203 W
Typical heat dissipation [BTU/hour]	692.66 BTU/hour
Maximum power consumption [W]	263 W
Maximum heat dissipation [BTU/hour]	897.38 BTU/hour
Static power consumption [W]	136 W
MTBF [years]	52.24 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	53.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.72 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	3

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Item	Specification
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45

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Item	Specification
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.10 S6730-H28X6CZ-TV2 (02354VUG)

Overview

Table 4-45 Basic information about the S6730-H28X6CZ-TV2

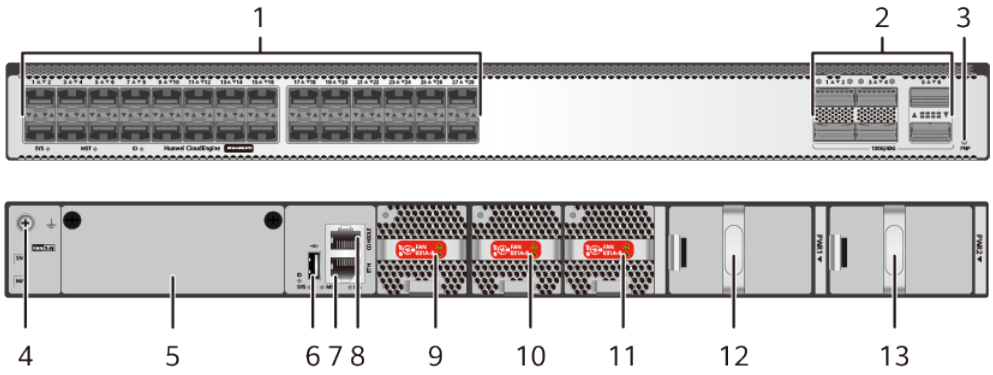
Item	Details
Description	S6730-H28X6CZ-TV2 (28*10GE SFP+ ports, 6*40GE QSFP ports, optional license for upgrade to 6*100GE QSFP28 ports, 1*expansion slot, HTM, without power module)
Part Number	02354VUG

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Item	Details
Model	S6730-H28X6CZ-TV2
First supported version	V600R022C00
Remarks	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands.

Components

Figure 4-16 S6730-H28X6CZ-TV2 appearance



1	Twenty-eight 10GE SFP+ optical ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the **license active** command to activate the license, and then run the **active port-license** and **port mode 100GE interface** commands.

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3	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	4	Ground screw **NOTE** It is used with a **ground cable**.
5	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version)	6	One USB port
7	One ETH management port	8	One console port
9	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**
13	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	-	-

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Ports

Table 4-46 Ports on the S6730-H28X6CZ-TV2

Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+**

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Port	Connector Type	Description	Available Components
			dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands. In V600R023C10 and later versions, the last two 100GE ports can each be split into four 25GE ports using a command. The port can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **10 m QSFP+ to 4*SFP+ AOC cable (supported in V600R023C10 and later versions)** • **100GE QSFP28 optical modules (supported with a license loaded)** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00, supported with a license loaded)** • **10 m QSFP28 to QSFP28 AOC cable (supported with a license loaded)**

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Port	Connector Type	Description	Available Components
			• 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-17 Indicators on the switch

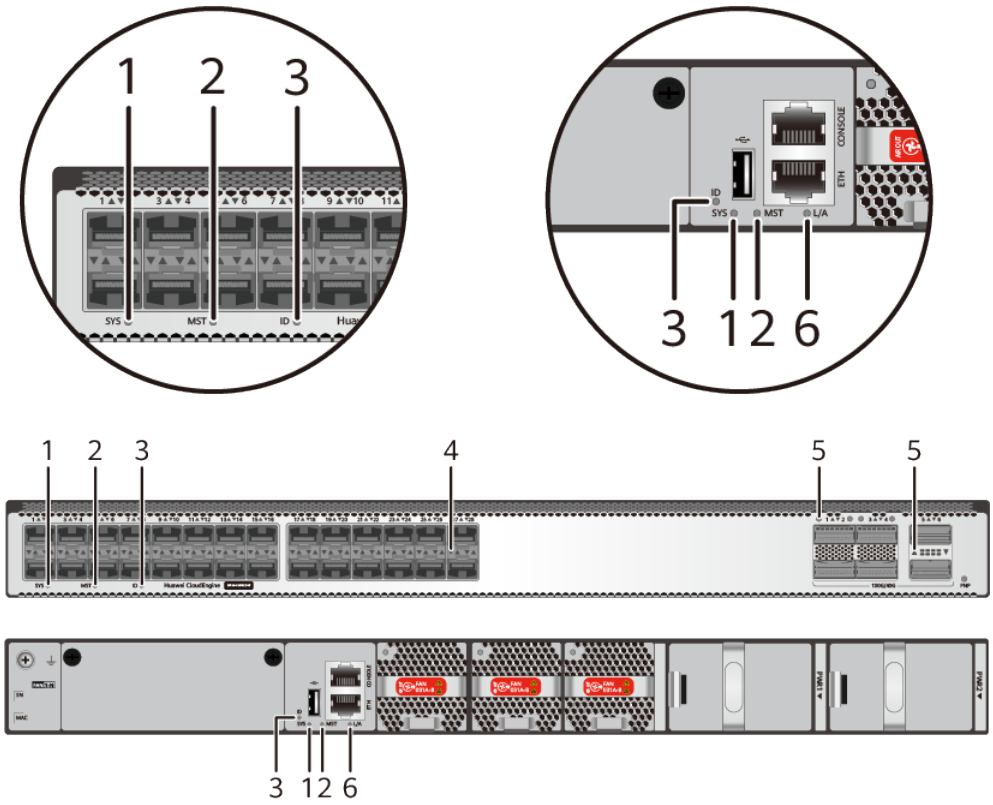


Table 4-47 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).

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No.	Indicator	Name	Color	Status	Description
2	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
3	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
4	-	Service port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			Meanings of service port indicators vary in different modes. For details, see **Table 4-48** and **Table 4-49**.
5	-	Service port indicator (one indicator for each port) **NOTE** Each optical port has one single-color indicator. Arrowheads show the positions of ports.			
6	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.

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Table 4-48 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	Green	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	Yellow	Off	The port is not sending or receiving data.
	Yellow	Blinking	The port is sending or receiving data.
Speed mode (LINK indicator) **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. Thedefault mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1GE/10GE SFP+ port: The port is operating at 1 Gbit/s.
	Green	Blinking	1GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Table 4-49 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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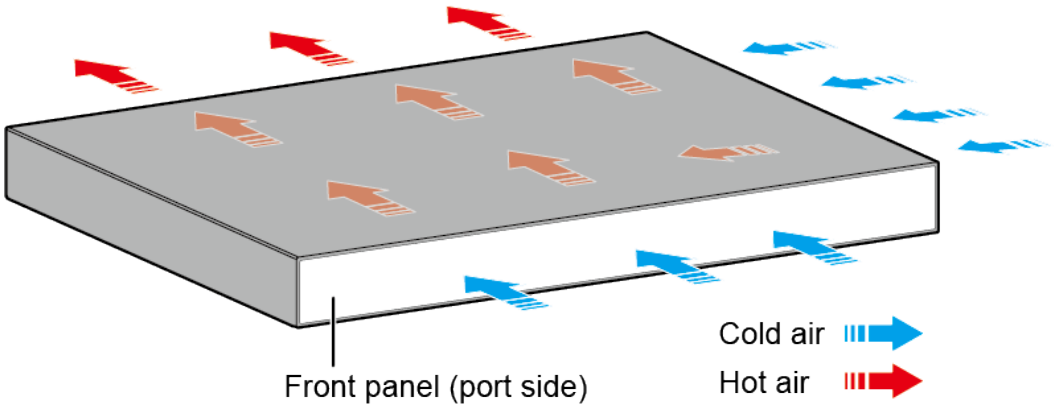
Display Mode	Color	Status	Description
Speed mode **NOTE** In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. Thedefault mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-50 Technical specifications of the S6730-H28X6CZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 455.0 mm (1.72 in. x 17.4 in. x 17.91 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.06 kg (15.56 lb)
Weight with packaging [kg(lb)]	10.04 kg (22.13 lb)
Typical power consumption [W]	203 W
Typical heat dissipation [BTU/hour]	692.66 BTU/hour
Maximum power consumption [W]	263 W
Maximum heat dissipation [BTU/hour]	897.38 BTU/hour
Static power consumption [W]	136 W
MTBF [years]	52.24 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	53.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.72 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	3

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Item	Specification
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45

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Item	Specification
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.11 S6730-H48X6CZ-V2 (02354VCP)

Overview

Table 4-51 Basic information about the S6730-H48X6CZ-V2

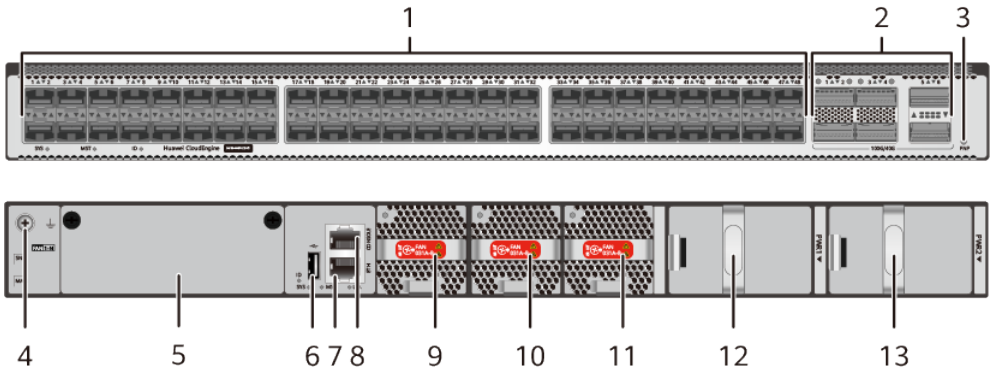
Item	Details
Description	S6730-H48X6CZ-V2 bundle (48*10GE SFP+ ports, 6*100GE QSFP28 ports, with license, 1*expansion slot, without power module)
Part Number	02354VCP
Model	S6730-H48X6CZ-V2

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Item	Details
First supported version	V600R022C00
Remarks	By default, the 100GE RTU license has been activated on the device, and QSFP28 ports work at the rate of 40 Gbit/s. You can run the active port-license and port mode 100GE interface commands to configure QSFP28 ports to work at 100 Gbit/s.

Components

Figure 4-18 S6730-H48X6CZ-V2 appearance



1	Forty-eight 10GE SFP+ optical ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** By default, the 100GE RTU license has been activated on the device, and QSFP28 ports work at the rate of 40 Gbit/s. You can run the **active port-license** and **port mode 100GE interface** commands to configure QSFP28 ports to work at 100 Gbit/s.
3	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	4	Ground screw **NOTE** It is used with a **ground cable**.

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5	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version)	6	One USB port
7	One ETH management port	8	One console port
9	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**
13	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	-	-

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Ports

Table 4-52 Ports on the S6730-H48X6CZ-V2

Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+**

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Port	Connector Type	Description	Available Components
			dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, the 100GE RTU license has been activated on the device, and QSFP28 ports work at the rate of 40 Gbit/s. You can run the active port-license and port mode 100GE interface commands to configure QSFP28 ports to work at 100 Gbit/s. In V600R023C10 and later versions, the last two 100GE ports can each be split into four 25GE ports using a command. The port can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **10 m QSFP+ to 4*SFP+ AOC cable (supported in V600R023C10 and later versions)** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00**

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Port	Connector Type	Description	Available Components
			and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

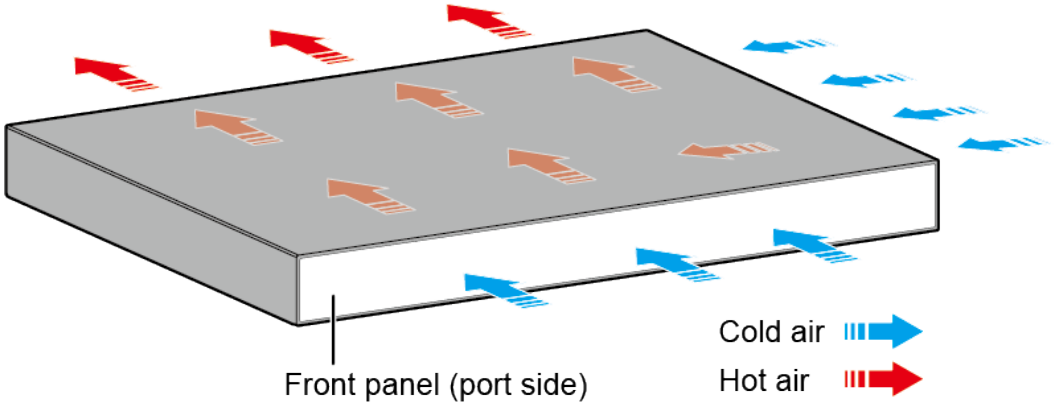
The S6730-H48X6CZ-V2 has the same types of indicators as the S6730-H28X6CZ-V2. For details, see the S6730-H28X6CZ-V2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-53 Technical specifications of the S6730-H48X6CZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 455.0 mm (1.72 in. x 17.4 in. x 17.91 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)

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Item	Specification
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.48 kg (16.49 lb)
Weight with packaging [kg(lb)]	10.46 kg (23.06 lb)
Typical power consumption [W]	234 W
Typical heat dissipation [BTU/hour]	798.43 BTU/hour
Maximum power consumption [W]	327 W
Maximum heat dissipation [BTU/hour]	1115.76 BTU/hour
Static power consumption [W]	157 W
MTBF [years]	48.99 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	53.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.72 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	3
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90–290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications depend on the pluggable power modules in use. For details, see the related power module specifications.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-

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Item	Specification
Power supply surge protection [kV]	• AC power module configured: ±6 kV in differential mode, ±6 kV in common mode • DC power module configured: ±2 kV in differential mode, ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.12 S6730-H48X6CZ-TV2 (02354VCQ)

Overview

Table 4-54 Basic information about the S6730-H48X6CZ-TV2

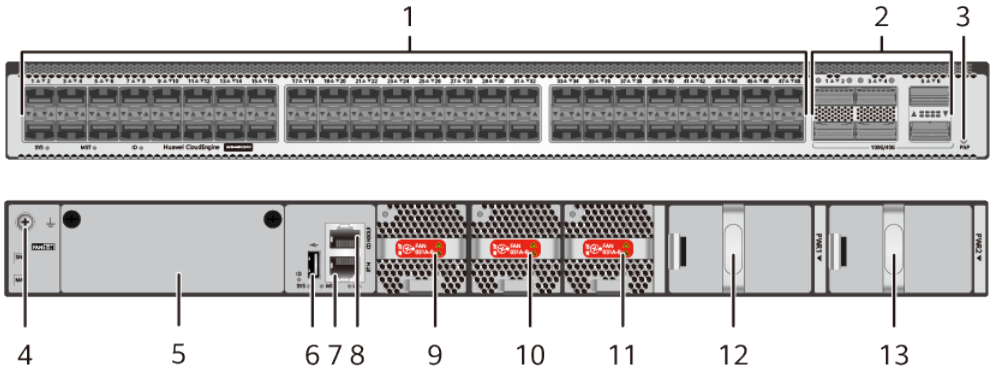
Item	Details
Description	S6730-H48X6CZ-TV2 bundle (48*10GE SFP+ ports, 6*100GE QSFP28 ports, with license, 1*expansion slot, HTM, without power module)
Part Number	02354VCQ
Model	S6730-H48X6CZ-TV2
First supported version	V600R022C00

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Item	Details
Remarks	By default, the 100GE RTU license has been activated on the device, and QSFP28 ports work at the rate of 40 Gbit/s. You can run the active port-license and port mode 100GE interface commands to configure QSFP28 ports to work at 100 Gbit/s.

Components

Figure 4-19 S6730-H48X6CZ-TV2 appearance



1	Forty-eight 10GE SFP+ optical ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** By default, the 100GE RTU license has been activated on the device, and QSFP28 ports work at the rate of 40 Gbit/s. You can run the **active port-license** and **port mode 100GE interface** commands to configure QSFP28 ports to work at 100 Gbit/s.
3	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	4	Ground screw **NOTE** It is used with a **ground cable**.

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5	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version)	6	One USB port
7	One ETH management port	8	One console port
9	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**
13	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	-	-

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Ports

Table 4-55 Ports on the S6730-H48X6CZ-TV2

Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+**

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Port	Connector Type	Description	Available Components
			dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, the 100GE RTU license has been activated on the device, and QSFP28 ports work at the rate of 40 Gbit/s. You can run the active port-license and port mode 100GE interface commands to configure QSFP28 ports to work at 100 Gbit/s. In V600R023C10 and later versions, the last two 100GE ports can each be split into four 25GE ports using a command. The port can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **10 m QSFP+ to 4*SFP+ AOC cable (supported in V600R023C10 and later versions)** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00**

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Port	Connector Type	Description	Available Components
			and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

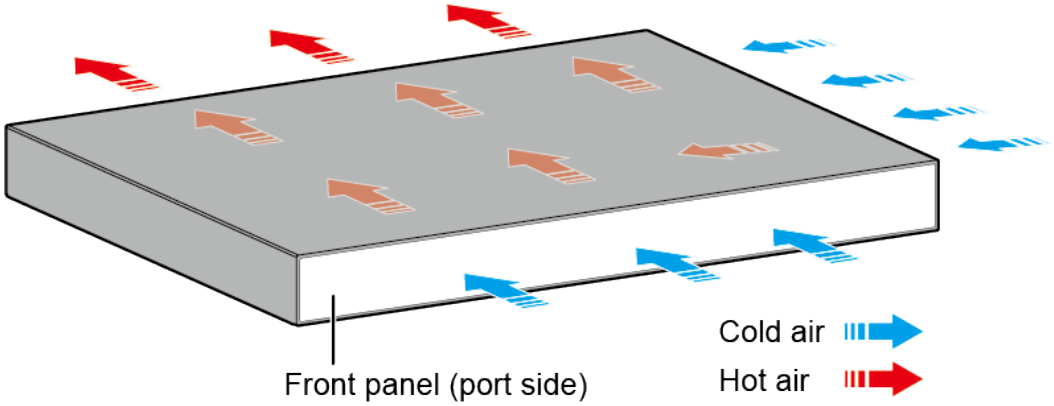
The S6730-H48X6CZ-TV2 has the same types of indicators as the S6730-H28X6CZ-TV2. For details, see the S6730-H28X6CZ-TV2.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-56 Technical specifications of the S6730-H48X6CZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 455.0 mm (1.72 in. x 17.4 in. x 17.91 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)

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Item	Specification
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.48 kg (16.49 lb)
Weight with packaging [kg(lb)]	10.46 kg (23.06 lb)
Typical power consumption [W]	234 W
Typical heat dissipation [BTU/hour]	798.43 BTU/hour
Maximum power consumption [W]	327 W
Maximum heat dissipation [BTU/hour]	1115.76 BTU/hour
Static power consumption [W]	157 W
MTBF [years]	48.99 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	53.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.72 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	3
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-

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Item	Specification
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.13 S6730-H48X6CZ-V2 (02354VUD)

Overview

Table 4-57 Basic information about the S6730-H48X6CZ-V2

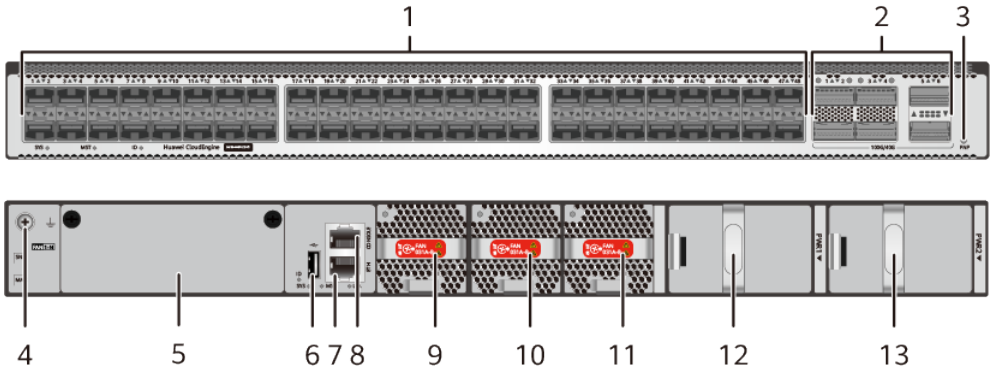
Item	Details
Description	S6730-H48X6CZ-V2 (48*10GE SFP+ ports, 6*40GE QSFP ports, optional license for upgrade to 6*100GE QSFP28 ports, 1*expansion slot, without power module)
Part Number	02354VUD
Model	S6730-H48X6CZ-V2
First supported version	V600R022C00

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Item	Details
Remarks	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands.

Components

Figure 4-20 S6730-H48X6CZ-V2 appearance



1	Forty-eight 10GE SFP+ optical ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the **license active** command to activate the license, and then run the **active port-license** and **port mode 100GE interface** commands.

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3	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	4	Ground screw **NOTE** It is used with a **ground cable**.
5	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version)	6	One USB port
7	One ETH management port	8	One console port
9	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**
13	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	-	-

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Ports

Table 4-58 Ports on the S6730-H48X6CZ-V2

Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+**

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Port	Connector Type	Description	Available Components
			dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)

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Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands. In V600R023C10 and later versions, the last two 100GE ports can each be split into four 25GE ports using a command. The port can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **10 m QSFP+ to 4*SFP+ AOC cable (supported in V600R023C10 and later versions)** • **100GE QSFP28 optical modules (supported with a license loaded)** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00, supported with a license loaded)** • **10 m QSFP28 to QSFP28 AOC cable (supported with a license loaded)**

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Port	Connector Type	Description	Available Components
			• 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S6730-H48X6CZ-V2 has the same types of indicators as the S6730-H28X6CZ-V2. For details, see the S6730-H28X6CZ-V2.

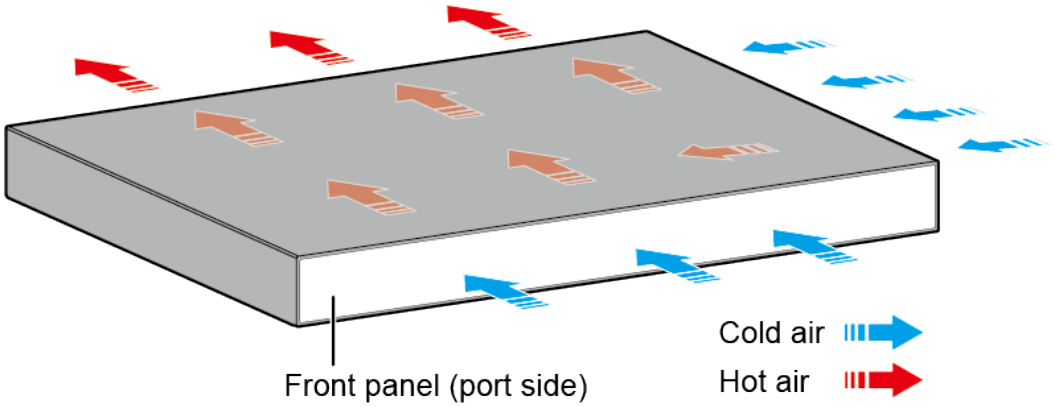
Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.

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NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-59 Technical specifications of the S6730-H48X6CZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 455.0 mm (1.72 in. x 17.4 in. x 17.91 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.48 kg (16.49 lb)
Weight with packaging [kg(lb)]	10.46 kg (23.06 lb)
Typical power consumption [W]	234 W
Typical heat dissipation [BTU/hour]	798.43 BTU/hour
Maximum power consumption [W]	327 W
Maximum heat dissipation [BTU/hour]	1115.76 BTU/hour
Static power consumption [W]	157 W
MTBF [years]	48.99 years

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Item	Specification
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	53.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.72 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	3
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.14 S6730-H48X6CZ-TV2 (02354VUE)

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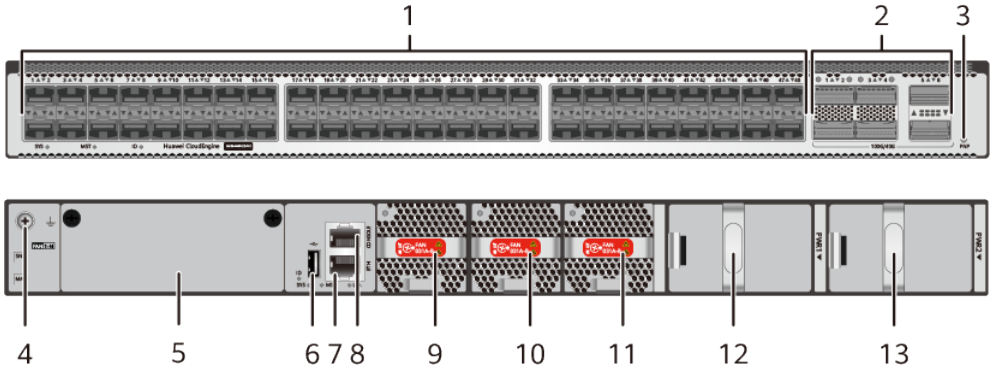
Overview

Table 4-60 Basic information about the S6730-H48X6CZ-TV2

Item	Details
Description	S6730-H48X6CZ-TV2 (48*10GE SFP+ ports, 6*40GE QSFP ports, optional license for upgrade to 6*100GE QSFP28 ports, 1*expansion slot, HTM, without power module)
Part Number	02354VUE
Model	S6730-H48X6CZ-TV2
First supported version	V600R022C00
Remarks	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands.

Components

Figure 4-21 S6730-H48X6CZ-TV2 appearance



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1	Forty-eight 10GE SFP+ optical ports	2	Six 40GE/100GE QSFP28 optical ports **NOTE** By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the **license active** command to activate the license, and then run the **active port-license** and **port mode 100GE interface** commands.
3	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	4	Ground screw **NOTE** It is used with a **ground cable**.
5	Card slot **NOTE** In versions earlier than V600R024C00, this card slot is reserved. Applicable card: **HSIC-X08S000** (available since V600R024C00 version)	6	One USB port
7	One ETH management port	8	One console port
9	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**

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13	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	-	-

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Ports

Table 4-61 Ports on the S6730-H48X6CZ-TV2

Port	Connector Type	Description	Available Components
10GE SFP+ optical port	SFP+	A 10GE SFP+ Ethernet optical port supports auto-sensing to 1000 Mbit/s. It sends and receives service data at 1000 Mbit/s or 10 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper module (supported in V600R023C10 and later versions)** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+**

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Port	Connector Type	Description	Available Components
			dedicated stack cables (only used for stack connection; zero-configuration stacking supported from V600R023C00)

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	By default, QSFP28 optical ports work at 40 Gbit/s. A 100GE RTU license can be used to upgrade the port rate to 100 Gbit/s. To configure the ports to work at 100 Gbit/s, run the license active command to activate the license, and then run the active port-license and port mode 100GE interface commands. In V600R023C10 and later versions, the last two 100GE ports can each be split into four 25GE ports using a command. The port can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables (only used for stack connection in versions earlier than V600R023C00)** • **10 m QSFP+ to QSFP+ AOC cable** • **10 m QSFP+ to 4*SFP+ AOC cable (supported in V600R023C10 and later versions)** • **100GE QSFP28 optical modules (supported with a license loaded)** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables (only used for stack connection in versions earlier than V600R023C00, supported with a license loaded)** • **10 m QSFP28 to QSFP28 AOC cable (supported with a license loaded)**

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Port	Connector Type	Description	Available Components
			• 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking, supported in V600R023C00 and later versions)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S6730-H48X6CZ-TV2 has the same types of indicators as the S6730-H28X6CZ-TV2. For details, see the S6730-H28X6CZ-TV2.

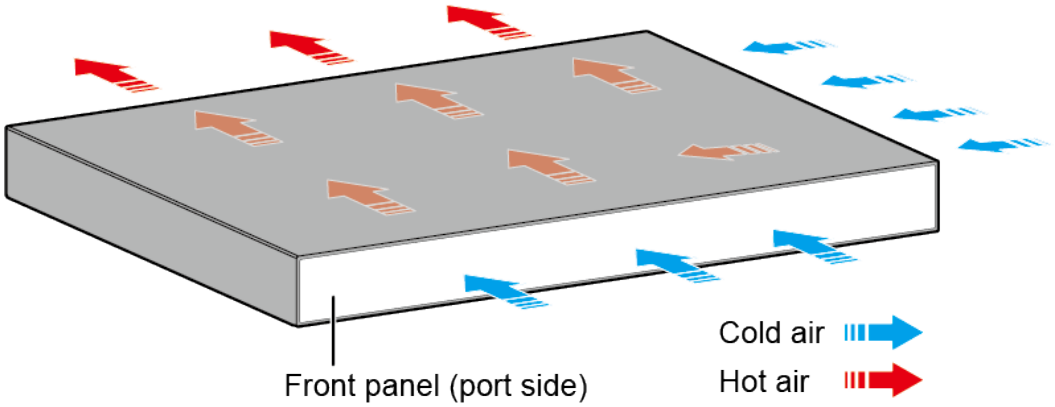
Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.

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NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-62 Technical specifications of the S6730-H48X6CZ-TV2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 455.0 mm (1.72 in. x 17.4 in. x 17.91 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	7.48 kg (16.49 lb)
Weight with packaging [kg(lb)]	10.46 kg (23.06 lb)
Typical power consumption [W]	234 W
Typical heat dissipation [BTU/hour]	798.43 BTU/hour
Maximum power consumption [W]	327 W
Maximum heat dissipation [BTU/hour]	1115.76 BTU/hour
Static power consumption [W]	157 W
MTBF [years]	48.99 years

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Item	Specification
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	53.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	39.72 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	3
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC

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Item	Specification
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.15 S6730-H6FX4Y2CZ-V2

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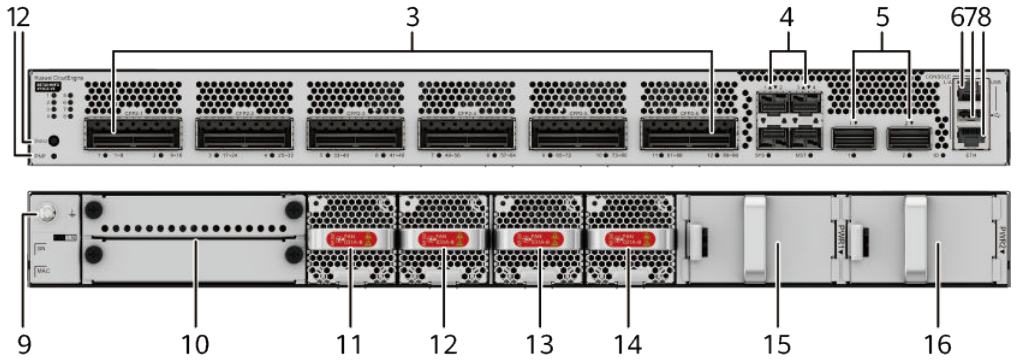
Overview

Table 4-63 Basic information about the S6730-H6FX4Y2CZ-V2

Item	Details
Description	S6730-H6FX4Y2CZ-V2 (6*CFP2 PEN ports (a single CFP2 PEN port supports 16*10GE SFP+ channels), 4*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, without power module)
Part Number	02356CMB
Model	S6730-H6FX4Y2CZ-V2
First supported version	V600R024C00

Components

Figure 4-22 S6730-H6FX4Y2CZ-V2 appearance



1	One Breakout button	2	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.

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3	Six 160GE/40GE CFP2 optical ports **NOTE** Each 160GE/40GE CFP2 port provides a combined total of 16 10GE/2.5GE ports (eight ports in each group, which correspond to one optical fiber). Example: Six 160GE/40GE CFP2 ports provide a combined total of 96 10GE ports, which fall into 12 groups. • CFP2 port 1: 10GE ports 1 to 8 (group 1) and 10GE ports 9 to 16 (group 2) • CFP2 port 2: 10GE ports 17 to 24 (group 3) and 10GE ports 25 to 32 (group 4) • CFP2 port 3: 10GE ports 33 to 40 (group 5) and 10GE ports 41 to 48 (group 6) • CFP2 port 4: 10GE ports 49 to 56 (group 7) and 10GE ports 57 to 64 (group 8) • CFP2 port 5: 10GE ports 65 to 72 (group 9) and 10GE ports 73 to 80 (group 10) • CFP2 port 6: 10GE ports 81 to 88 (group 11) and 10GE ports 89 to 96 (group 12)	4	Four 10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	One console port
7	One USB port	8	One ETH management port
9	Ground screw **NOTE** It is used with a **ground cable**.	10	Card slot **NOTE** Applicable card: **HSIC-X08S000**
11	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	14	Fan module slot 4 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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15	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	16	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**

Ports

Table 4-64 Ports on the S6730-H6FX4Y2CZ-V2

Port	Connector Type	Description	Available Components
160G/40G CFP2 optical port	CFP2	Each 160GE/40GE CFP2 optical port provides a combined total of 16 10GE/2.5GE ports (eight ports in each group, which correspond to one optical fiber).	**PEN central optical modules**

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Port	Connector Type	Description	Available Components
10GE/25GE SFP28 optical port	SFP28	A 10GE/25GE SFP28 optical port sends and receives service data at 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s.	• **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m, 3 m, and 5 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables**

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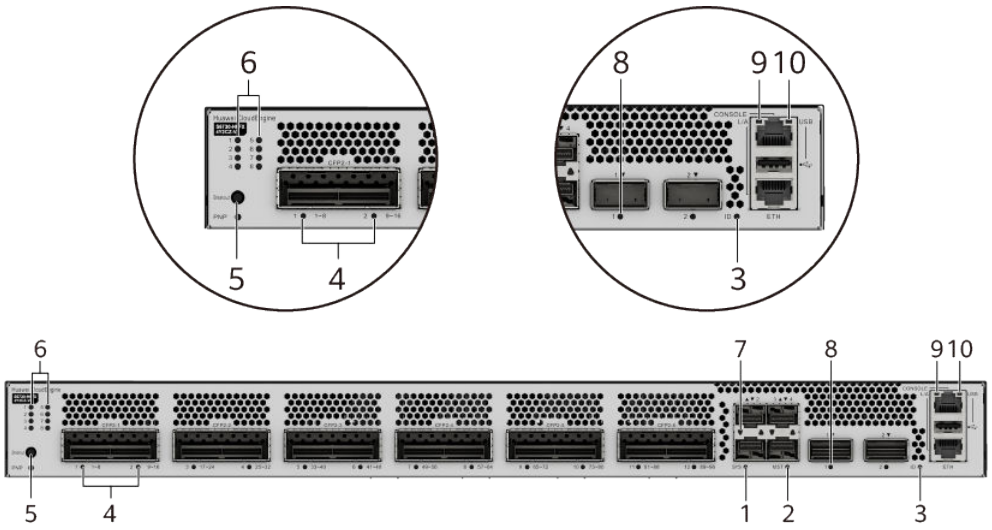
Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. QSFP28 optical ports cannot be split.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-23 Indicators on the switch



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Table 4-65 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).
2	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
3	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

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No.	Indicator	Name	Color	Status	Description
4	1 to 12	Indicators for 10GE/2.5GE port groups of 160GE/40GE CFP2 ports (one indicator for each port group)			Each 160GE/40GE CFP2 port provides a combined total of 16 10GE/2.5GE ports (eight ports in each group, which correspond to one optical fiber). One port group indicator is provided for the 10GE/2.5GE port group of 160GE/40GE CFP2 ports. After any of the eight 10GE/2.5GE ports in a group is connected, the port group indicator starts working. The Breakout button, 10GE/2.5GE sequence number indicator, and 160GE/40GE CFP2 port group indicator together show the status of all the eight 10GE/2.5GE ports in each group. **If the Breakout button is not used**, you can determine the status of each port group, but not the status of each port in a port group. ● 160GE/40GE CFP2 port group indicator: – Off: No connection has been set up on any of the eight ports in the port group. – Steady green: A connection has been set up on at least one port in the port group. – Blinking green: At least one port in the port group is transmitting or receiving data. ● 10GE/2.5GE port sequence number indicator: off **If the Breakout button is used**, the status of each port in the port group can be displayed. When you press the Breakout button for the first time, the indicator of the first 160GE/40GE CFP2 port group is steady yellow, and the 10GE/2.5GE port sequence number indicators show the status of the eight 10GE/2.5GE ports in the first group. When you press the button again, the indicator of the second port group is steady yellow, and the sequence
5	Breakout	Button for manually controlling indicators of 160GE/40GE CFP2 port groups			
6	1 to 8	10GE/2.5GE port sequence number indicators 1, 2, 3, 4, 5, 6, 7, and 8			

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No.	Indicator	Name	Color	Status	Description
					number indicators of the eight 10GE/2.5GE ports in the second group show the status of the eight 10GE/2.5GE ports in the second group. Port group indicators 1 to 12 turn on in turn. The default mode is automatically restored 30s after you stop pressing the Breakout button. ● 160GE/40GE CFP2 port group indicator: – Off: The Breakout button does not take effect to the port group. – Steady yellow: The Breakout button takes effect to the port group, and the sequence number indicators show the status of the ports in the port group. ● 10GE/2.5GE port sequence number indicators: Indicators 1, 2, 3, 4, 5, 6, 7, and 8 indicate the status of the eight 10GE/2.5GE ports in each group. – Off: No connection has been set up on the 10GE/2.5GE port corresponding to the sequence number. – Steady green: A connection has been set up on the 10GE/2.5GE port corresponding to the sequence number. – Blinking green: The corresponding 10GE/2.5GE port is transmitting or receiving data.
7	-	10GE/25GE SFP28 Ethernet optical port indicator (one indicator for each port) **NOTE** Each optical port has one single-color indicator. Arrowheads show the positions of ports.			Meanings of service port indicators vary in different modes. For details, see **Table 4-66**.

No.	Indicator	Name	Color	Status	Description
8	-	40GE/100GE QSFP28 Ethernet optical port indicator (one indicator for each port)			
9	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.
10	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

Table 4-66 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.

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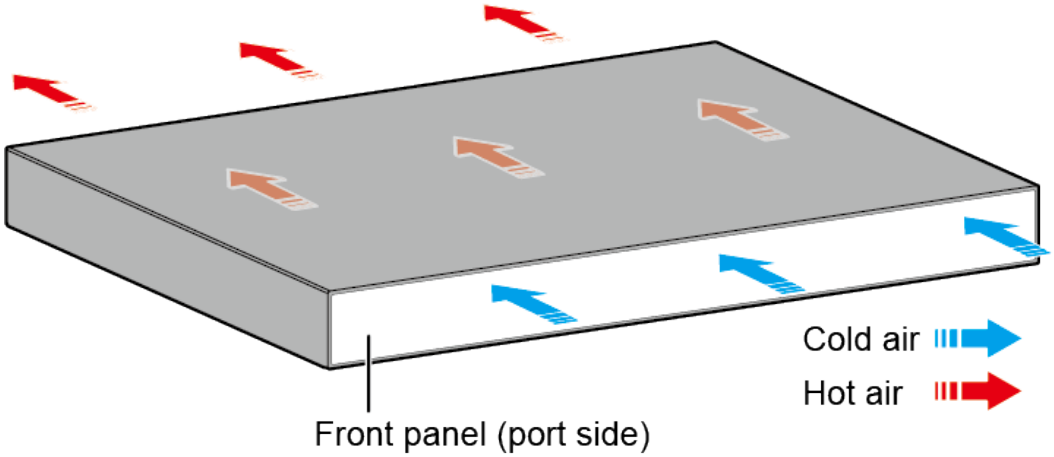
Display Mode	Color	Status	Description
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10GE/25GE SFP28 port: The port is operating at 10 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	• 10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-67 Technical specifications of the S6730-H6FX4Y2CZ-V2

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 455.0 mm (1.72 in. x 17.4 in. x 17.91 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.66 kg (14.68 lb)
Weight with packaging [kg(lb)]	9.38 kg (20.68 lb)
Typical power consumption [W]	234 W
Typical heat dissipation [BTU/hour]	798.43 BTU/hour
Maximum power consumption [W]	281 W
Maximum heat dissipation [BTU/hour]	958.80 BTU/hour
Static power consumption [W]	142 W
MTBF [years]	51.81 years
MTTR [hours]	2.32 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	53.5 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	50.5 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	4

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Item	Specification
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB

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Item	Specification
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.5 S6750-S

4.5.1 S6750-S16X8YZ

Overview

Table 4-68 Basic information about the S6750-S16X8YZ

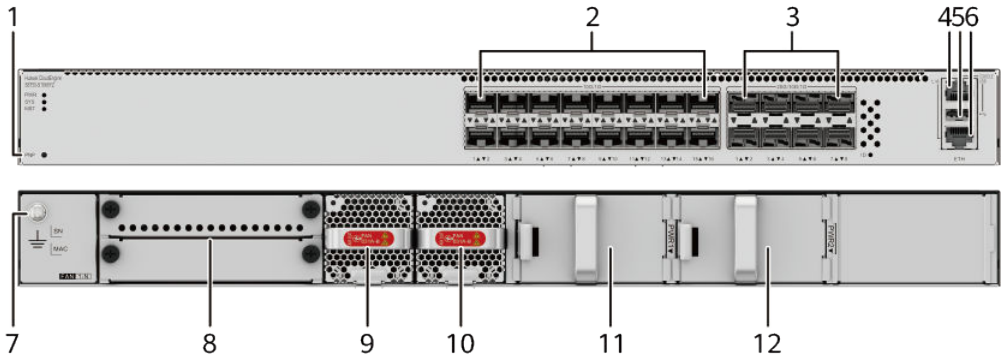
Item	Details
Description	S6750-S16X8YZ (16*10GE SFP+ ports, 8*25GE SFP28 ports, expansion card slot, without power module)

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Item	Details
Part Number	98012445
Model	S6750-S16X8YZ
First supported version	V600R024C00

Components

Figure 4-24 S6750-S16X8YZ appearance



1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	Sixteen GE/2.5GE/10GE SFP+ optical ports
3	Eight GE/2.5GE/10GE/25GE SFP28 optical ports	4	One console port
5	One USB port	6	One ETH management port
7	Ground screw **NOTE** It is used with a **ground cable**.	8	Card slot **NOTE** Applicable card: **HSIC-X08S000**
9	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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1 1	Power module slot 1 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** • **PDC400S12-CB** • **PAC600S12-PB**	1 2	Power module slot 2 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** • **PDC400S12-CB** • **PAC600S12-PB**

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Ports

Table 4-69 Ports on the S6750-S16X8YZ

Port	Connector Type	Description	Available Components
GE/2.5GE/10GE SFP+ optical port	SFP+	A GE/2.5GE/10GE SFP+ optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. When a GE optical module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5ge command to configure the port to work at 2.5 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5ge command to configure the port to work at 2.5 Gbit/s. Before installing a GE optical module or GE copper module on a port, run the port mode ge command to configure the port to work at 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m**

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Port	Connector Type	Description	Available Components
			SFP28 AOC cables
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

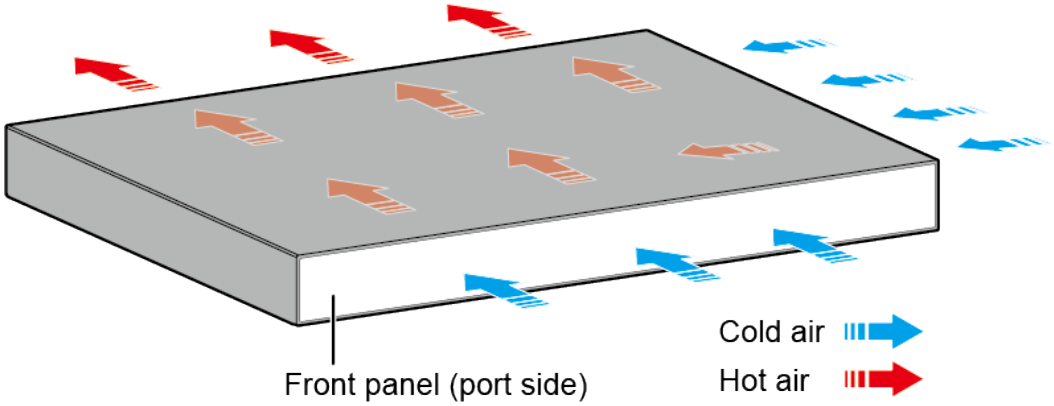
The S6750-S16X8YZ has the same types of indicators as the S6750-S24T16X8Y2CZ. For details, see the S6750-S24T16X8Y2CZ.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with natural heat dissipation and the power modules with fan cannot be used at the same time.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-70 Technical specifications of the S6750-S16X8YZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)

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Item	Specification
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.20 kg (11.46 lb)
Weight with packaging [kg(lb)]	7.67 kg (16.91 lb)
Typical power consumption [W]	30% traffic under the ATIS standard and dual power modules: • 79 W (with two 180 W AC power modules) • 73 W (with two 240 W DC power modules)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard and dual power modules: • 270 (with two 180 W AC power modules) • 249 (with two 240 W DC power modules)
Maximum power consumption [W]	100% traffic under the ATIS standard and dual power modules: • 85 W (with two 180 W AC power modules) • 78 W (with two 240 W DC power modules)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard and dual power modules: • 290 (with two 180 W AC power modules) • 266 (with two 240 W DC power modules)
Static power consumption [W]	50 W
MTBF [years]	81.40 years
MTTR [hours]	1.47 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	54.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	41.2 dBA
Number of card slots	1

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Item	Specification
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together on the same device. **NOTE** Power modules with fans and power modules without fans cannot be installed on the same device.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature can exceed 45°C (113°F) for a maximum of 96 consecutive hours in a year. ● The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km.

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Item	Specification
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment

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Item	Specification
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.5.2 S6750-S16X10Y2CZ

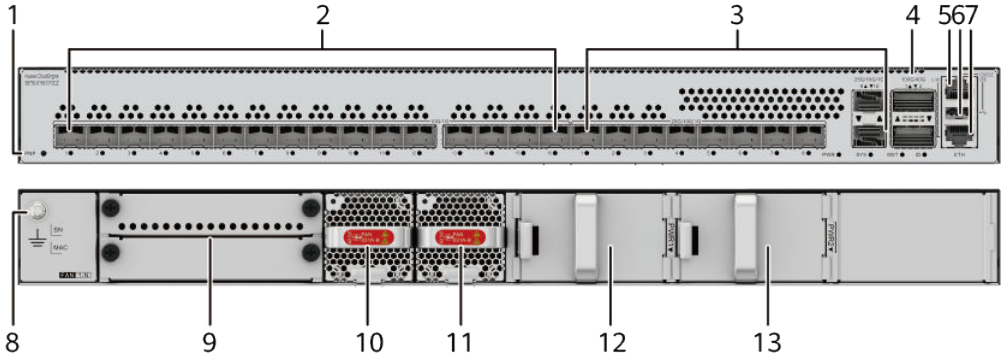
Overview

Table 4-71 Basic information about the S6750-S16X10Y2CZ

Item	Details
Description	S6750-S16X10Y2CZ (16*10GE SFP+ ports, 10*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, without power module)
Part Number	98012444
Model	S6750-S16X10Y2CZ
First supported version	V600R024C00
Remarks	When cards are used, power modules with a power of 240 W or higher must be used.

Components

Figure 4-25 S6750-S16X10Y2CZ appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	Sixteen FE/GE/2.5GE/10GE SFP+ optical ports
3	Ten GE/2.5GE/10GE/25GE SFP28 optical ports	4	Two 40GE/100GE QSFP28 optical ports
5	One console port	6	One USB port
7	One ETH management port	8	Ground screw **NOTE** It is used with a **ground cable**.
9	Card slot **NOTE** Applicable card: **HSIC-X08S000**	10	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** • **PDC400S12-CB** • **PAC600S12-PB**
13	Power module slot 2 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** • **PDC400S12-CB** • **PAC600S12-PB**	-	-

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Ports

Table 4-72 Ports on the S6750-S16X10Y2CZ

Port	Connector Type	Description	Available Components
FE/GE/2.5GE/ 10GE SFP+ optical port	SFP+	A FE/GE/2.5GE/ 10GE SFP+ optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. When a GE optical module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s. When a FE optical module is connected to a port, the port can automatically adjust its rate to 100 Mbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5ge command to configure the port to work at 2.5 Gbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5ge command to configure the port to work at 2.5 Gbit/s. Before installing a GE optical module or GE copper module on a port, run the port mode ge command to configure the port to work at 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m**

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Port	Connector Type	Description	Available Components
			SFP28 AOC cables
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• 40GE QSFP+ optical modules • 1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables • 10 m QSFP+ AOC cable • 100GE QSFP28 optical modules • 1 m and 3 m QSFP28 to QSFP28 high-speed copper cables • 10 m QSFP28 AOC cable • 2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console cable
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S6750-S16X10Y2CZ has the same types of indicators as the S6750-S24T16X8Y2CZ. For details, see the S6750-S24T16X8Y2CZ.

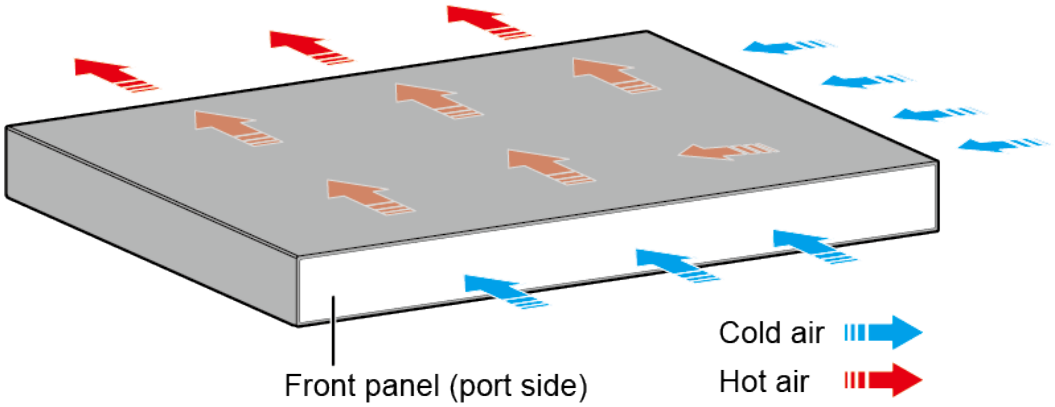
Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with natural heat dissipation and the power modules with fan cannot be used at the same time.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.

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NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-73 Technical specifications of the S6750-S16X10Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.20 kg (11.46 lb)
Weight with packaging [kg(lb)]	7.65 kg (16.87 lb)
Typical power consumption [W]	30% traffic under the ATIS standard and dual power modules: • 120 W (with two 180 W AC power modules) • 109 W (with two 240 W DC power modules)

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard and dual power modules: ● 409 (with two 180 W AC power modules) ● 372 (with two 240 W DC power modules)
Maximum power consumption [W]	100% traffic under the ATIS standard and dual power modules: ● 130 W (with two 180 W AC power modules) ● 118 W (with two 240 W DC power modules)
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard and dual power modules: ● 444 (with two 180 W AC power modules) ● 403 (with two 240 W DC power modules)
Static power consumption [W]	66 W
MTBF [years]	69.10 years
MTTR [hours]	1.74 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	54.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	41.2 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together on the same device. **NOTE** Power modules with fans and power modules without fans cannot be installed on the same device.

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Item	Specification
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)

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Item	Specification
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported

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Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.5.3 S6750-S24T16X8Y2CZ

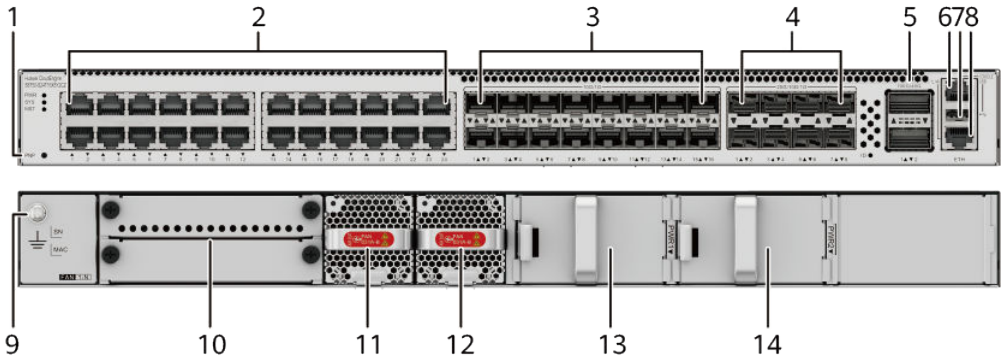
Overview

Table 4-74 Basic information about the S6750-S24T16X8Y2CZ

Item	Details
Description	S6750-S24T16X8Y2CZ (24*10/100/1000BASE-T ports, 16*10GE SFP+ ports, 8*25GE SFP28 ports, 2*100GE QSFP28 ports, expansion card slot, without power module)
Part Number	98012446
Model	S6750-S24T16X8Y2CZ
First supported version	V600R024C00
Remarks	When cards are used, power modules with a power of 240 W or higher must be used.

Components

Figure 4-26 S6750-S24T16X8Y2CZ appearance



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1	One PNP button **NOTICE** To restore the factory settings and reset the switch, hold down the button for at least 6 seconds. To reset the switch, press the button. Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.	2	Twenty-four 10/100/1000BASE-T ports
3	Sixteen FE/GE/2.5GE/10GE SFP+ optical ports	4	Eight GE/2.5GE/10GE/25GE SFP28 optical ports
5	Two 40GE/100GE QSFP28 optical ports	6	One console port
7	One USB port	8	One ETH management port
9	Ground screw **NOTE** It is used with a **ground cable**.	10	Card slot **NOTE** Applicable card: **HSIC-X08S000**
11	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
13	Power module slot 1 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** • **PDC400S12-CB** • **PAC600S12-PB**	14	Power module slot 2 **NOTE** Applicable power modules: • **PAC180S12-CN** • **PDC240S12-CN** • **PDC400S12-CB** • **PAC600S12-PB**

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Ports

Table 4-75 Ports on the S6750-S24T16X8Y2CZ

Port	Connector Type	Description	Available Components
10/100/1000BASE-T port	RJ45	A 10/100/1000BASE-T Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
FE/GE/2.5GE/ 10GE SFP+ optical port	SFP+	A FE/GE/2.5GE/ 10GE SFP+ optical port sends and receives service data at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. When a GE optical module is connected to a port, the port can automatically adjust its rate to 1 Gbit/s. When a FE optical module is connected to a port, the port can automatically adjust its rate to 100 Mbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5ge command to configure the port to work at 2.5 Gbit/s.	• **FE SFP/eSFP optical modules** • **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**

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Port	Connector Type	Description	Available Components
GE/2.5GE/10GE/25GE SFP28 optical port	SFP28	A GE/2.5GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 2.5 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a 2.5GE optical module on a port, run the port mode 2.5ge command to configure the port to work at 2.5 Gbit/s. Before installing a GE optical module or GE copper module on a port, run the port mode ge command to configure the port to work at 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **2.5GE eSFP optical modules** • **10GE SFP+ optical modules** • **10GE-CWDM SFP+ optical modules** • **10GE-DWDM SFP+ optical modules** • **10GE SFP+ copper modules** • **PEN remote optical modules** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m and 3 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m**

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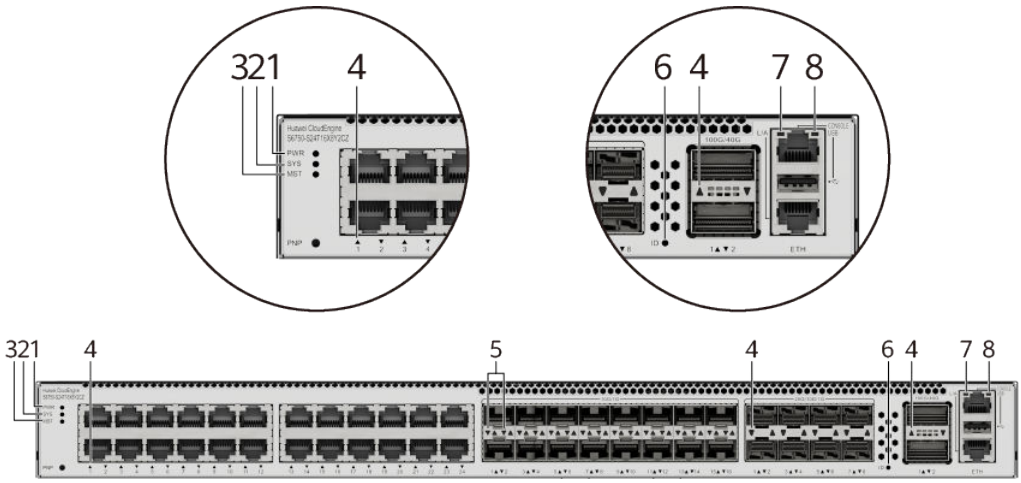
Port	Connector Type	Description	Available Components
			SFP28 AOC cables
40GE/100GE QSFP28 optical port	QSFP28	A QSFP28 Ethernet optical port is a 100GE port by default and supports auto-sensing to 40GE. An interface can be split into four 25GE ports using commands. The interface can be automatically converted into four 10GE ports using one-to-four QSFP+ optical modules or AOC optical cables.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-27 Indicators on the switch



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Table 4-76 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The switch has multiple power modules installed. Any of the following situations occurs in a power module slot: • A power module is available in this slot but it is not connected to a power source. • The power module in this slot has failed.
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).
3	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
4	-	Service port indicator (one indicator for each port) **NOTE** Each optical port has one single-color indicator. Arrowheads show the positions of ports.			Meanings of service port indicators vary in different modes. For details, see **Table 4-77** and **Table 4-78**.

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No.	Indicator	Name	Color	Status	Description
5	-	Service port indicator (two indicators for each port) **NOTE** Each optical port has two single-color indicators. The one on the left is the ACT indicator (yellow), and the one on the right is the LINK indicator (green). Arrowheads show the positions of ports. A down arrowhead indicates a port at the bottom, and an up arrowhead indicates a port at the top.			
6	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
7	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.
8	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.

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Table 4-77 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 10/100/1000BASE-T port: The port is operating at 10 Mbit/s or 100 Mbit/s. • FE/GE/2.5GE/10GE/25GE SFP28 port: The port is operating at 100 Mbit/s, 1 Gbit/s, 2.5 Gbit/s, or 10 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s.
	Green	Blinking	• 10/100/1000BASE-T port: The port is operating at 1000 Mbit/s. • FE/GE/2.5GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s. • 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s.

Table 4-78 Description of service port indicators in different modes (two indicators for each port)

Display Mode	Color	Status	Description
Default mode (LINK indicator)	Green	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
Default mode (ACT indicator)	Yellow	Off	The port is not sending or receiving data.
	Yellow	Blinking	The port is sending or receiving data.

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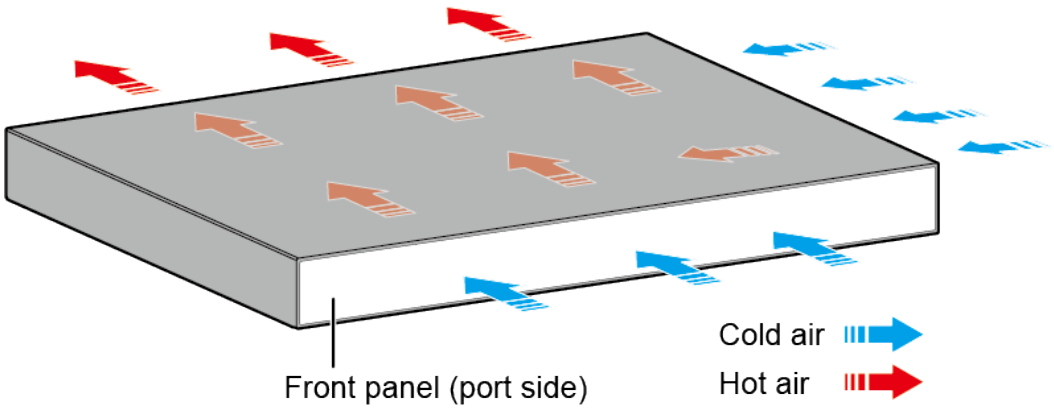
Display Mode	Color	Status	Description
Speed mode (LINK indicator) **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	FE/GE/2.5GE/10GE SFP+ port: The port is operating at 100 Mbit/s, 1 Gbit/s, or 2.5 Gbit/s.
	Green	Blinking	FE/GE/2.5GE/10GE SFP+ port: The port is operating at 10 Gbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. The power modules with natural heat dissipation and the power modules with fan cannot be used at the same time.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the right and front sides, and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-79 Technical specifications of the S6750-S24T16X8Y2CZ

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 454.0 mm (1.72 in. x 17.4 in. x 17.87 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	145.0 mm x 650.0 mm x 550.0 mm (5.71 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	5.52 kg (12.17 lb)
Weight with packaging [kg(lb)]	7.96 kg (17.55 lb)
Typical power consumption [W]	30% traffic under the ATIS standard and dual power modules: • 122 W (with two 180 W AC power modules) • 118 W (with two 240 W DC power modules)
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard and dual power modules: • 416.26 (with two 180 W AC power modules) • 402.61 (with two 240 W DC power modules)
Maximum power consumption [W]	100% traffic under the ATIS standard and dual power modules: • 127 W (with two 180 W AC power modules) • 123 W (with two 240 W DC power modules)

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Item	Specification
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard and dual power modules: • 433.32 (with two 180 W AC power modules) • 419.67 (with two 240 W DC power modules)
Static power consumption [W]	77 W
MTBF [years]	47.17 years
MTTR [hours]	2.54 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	54.2 dBA
Noise at normal temperature (acoustic pressure) [dB(A)]	41.2 dBA
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together on the same device. **NOTE** Power modules with fans and power modules without fans cannot be installed on the same device.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met: ● The operating temperature exceeds 45°C (113°F) for no more than 96 consecutive hours in a year. ● The total time in which the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours. ● The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year. If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur. The device cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km. When the QSFP-100G-ER4 or QSFP-100G-LR1 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply

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Item	Specification
Rated input voltage [V]	• AC input: 100 V AC to 130 V AC, 200 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45 Hz to 66 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	4 GB
Flash memory	Physical space: 2 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front and right and air exhaust from rear
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

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4.6 S6750-H

4.6.1 S6750-H36C (02355UEK)

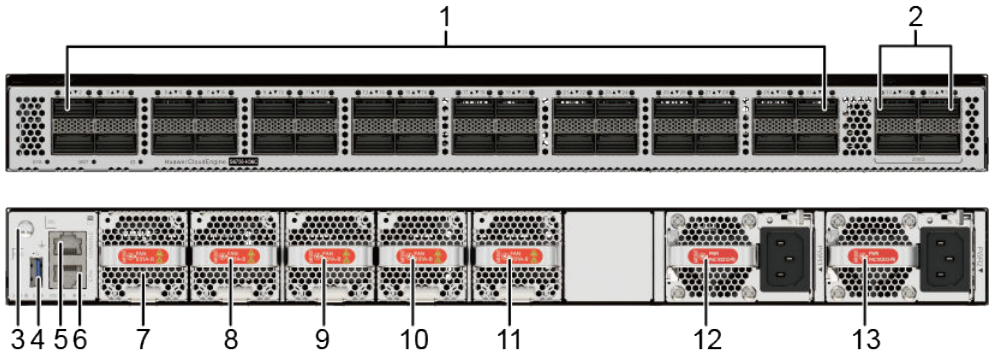
Overview

Table 4-80 Basic information about the S6750-H36C

Item	Details
Description	S6750-H36C (36*100GE QSFP28 ports, without power module)
Part Number	02355UEK
Model	S6750-H36C
First supported version	V600R023C10

Components

Figure 4-28 S6750-H36C appearance



1	Thirty-two 40GE/100GE QSFP28 optical ports	2	Four 40GE/100GE QSFP28 optical ports **NOTE** The 200GE rate is reserved and is not supported in V600R023C10.
3	Ground screw **NOTE** It is used with a **ground cable**.	4	One USB port

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5	One console port	6	One ETH management port
7	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	8	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
9	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 4 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 5 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **5.9 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust))** • **5.10 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))**
13	Power module slot 2 **NOTE** Applicable power modules: • **5.9 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust))** • **5.10 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))**	-	-

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Ports

Table 4-81 Ports on the S6750-H36C

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	QSFP28 optical ports are 100GE ports by default and can work at the rate of 40 Gbit/s. Ports 1 to 32: Only the top-row ports (ports 1, 3, 5, ..., 29, and 31) can be split into 4 x 10GE or 4 x 25GE ports. Every four ports (ports 1 to 4, 5 to 8, ..., 29 to 32) form a group. When a port is split, the other splittable port in the same group is also split, and the non-splittable ports will become unavailable. For example, when port 1 is split, port 3 is also split, and ports 2 and 4 are unavailable. Ports 33 to 36: Every two ports (ports 33 and 34 and ports 35 and 36) form a group. When a port is split into 4 x 10GE or 4 x 25GE ports, the other port in the same group is also split. For example, when port 33 is split,	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
		port 34 is also split.	
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-29 Indicators on the switch

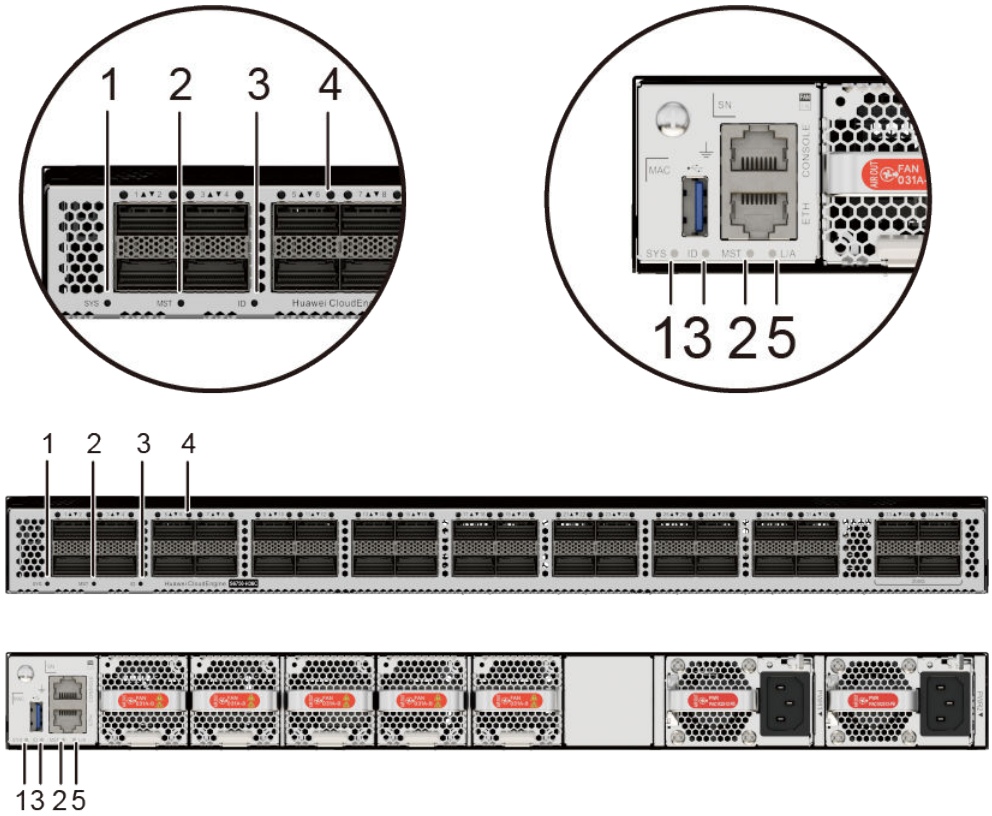


Table 4-82 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).

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No.	Indicator	Name	Color	Status	Description
2	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
3	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
4	-	Service port indicator (one indicator for each port)			Meanings of service port indicators vary in different modes. For details, see **Table 4-83**.
5	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.

Table 4-83 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s.

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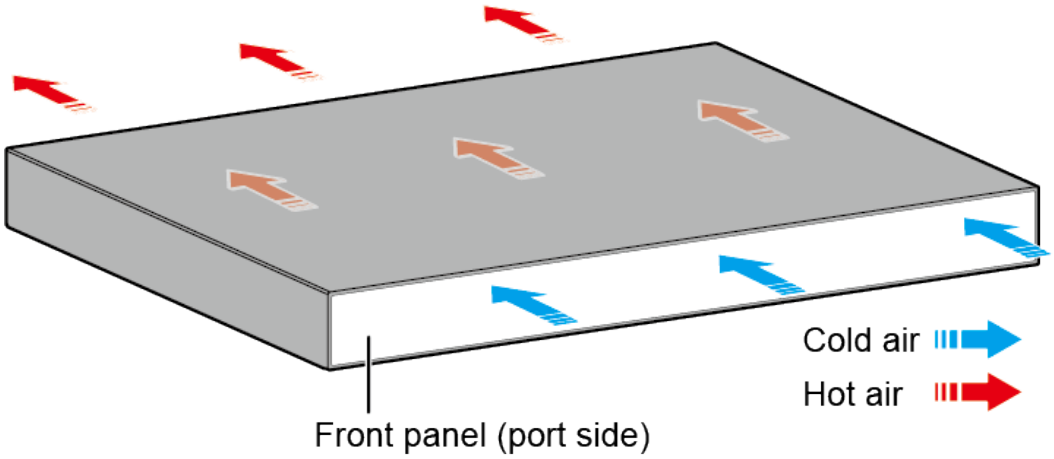
Display Mode	Color	Status	Description
	Green	Blinking	• 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-84 Technical specifications of the S6750-H36C

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.5 mm (1.72 in. x 17.4 in. x 17.58 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.72 kg (14.81 lb)
Weight with packaging [kg(lb)]	11 kg (24.25 lb)
Typical power consumption [W]	30% traffic under the ATIS standard and dual power modules: 537 W
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard and dual power modules: 1832.30
Maximum power consumption [W]	100% traffic under the ATIS standard and dual power modules: 558 W High temperature 45°C (113°F), 100% traffic, long-distance optical module, and dual power modules: 679 W
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard and dual power modules: 1903.95 High temperature 45°C (113°F), 100% traffic, long-distance optical module, and dual power modules: 2316.82
Static power consumption [W]	317 W
MTBF [years]	27.77 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	57.7 dB(A)

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Item	Specification
Noise at normal temperature (acoustic pressure) [dB(A)]	57.2 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	5
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC

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Item	Specification
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	8 GB
Flash memory	Physical space: 4 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.6.2 S6750-H36C (02355UEK-001)

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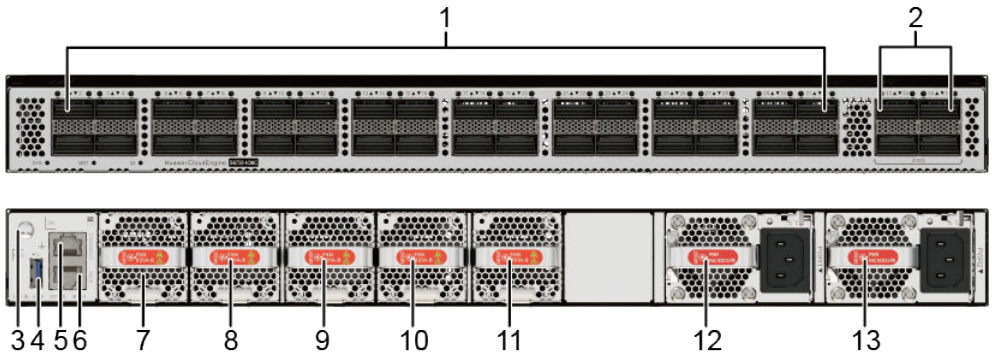
Overview

Table 4-85 Basic information about the S6750-H36C

Item	Details
Description	S6750-H36C (36*100GE QSFP28 ports, without power module,only for markets outside China)
Part Number	02355UEK-001
Model	S6750-H36C
First supported version	V600R023C10

Components

Figure 4-30 S6750-H36C appearance



1	Thirty-two 40GE/100GE QSFP28 optical ports	2	Four 40GE/100GE QSFP28 optical ports **NOTE** The 200GE rate is reserved and is not supported in V600R023C10.
3	Ground screw **NOTE** It is used with a **ground cable**.	4	One USB port
5	One console port	6	One ETH management port
7	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	8	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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9	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 4 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 5 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **5.9 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust))** • **5.10 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))**
13	Power module slot 2 **NOTE** Applicable power modules: • **5.9 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust))** • **5.10 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))**	-	-

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Ports

Table 4-86 Ports on the S6750-H36C

Port	Connector Type	Description	Available Components
40GE/100GE QSFP28 optical port	QSFP28	QSFP28 optical ports are 100GE ports by default and can work at the rate of 40 Gbit/s. Ports 1 to 32: Only the top-row ports (ports 1, 3, 5, ..., 29, and 31) can be split into 4 x 10GE or 4 x 25GE ports. Every four ports (ports 1 to 4, 5 to 8, ..., 29 to 32) form a group. When a port is split, the other splittable port in the same group is also split, and the non-splittable ports will become unavailable. For example, when port 1 is split, port 3 is also split, and ports 2 and 4 are unavailable. Ports 33 to 36: Every two ports (ports 33 and 34 and ports 35 and 36) form a group. When a port is split into 4 x 10GE or 4 x 25GE ports, the other port in the same group is also split. For example, when port 33 is split,	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**

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Port	Connector Type	Description	Available Components
		port 34 is also split.	
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

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Indicators and Buttons

Figure 4-31 Indicators on the switch

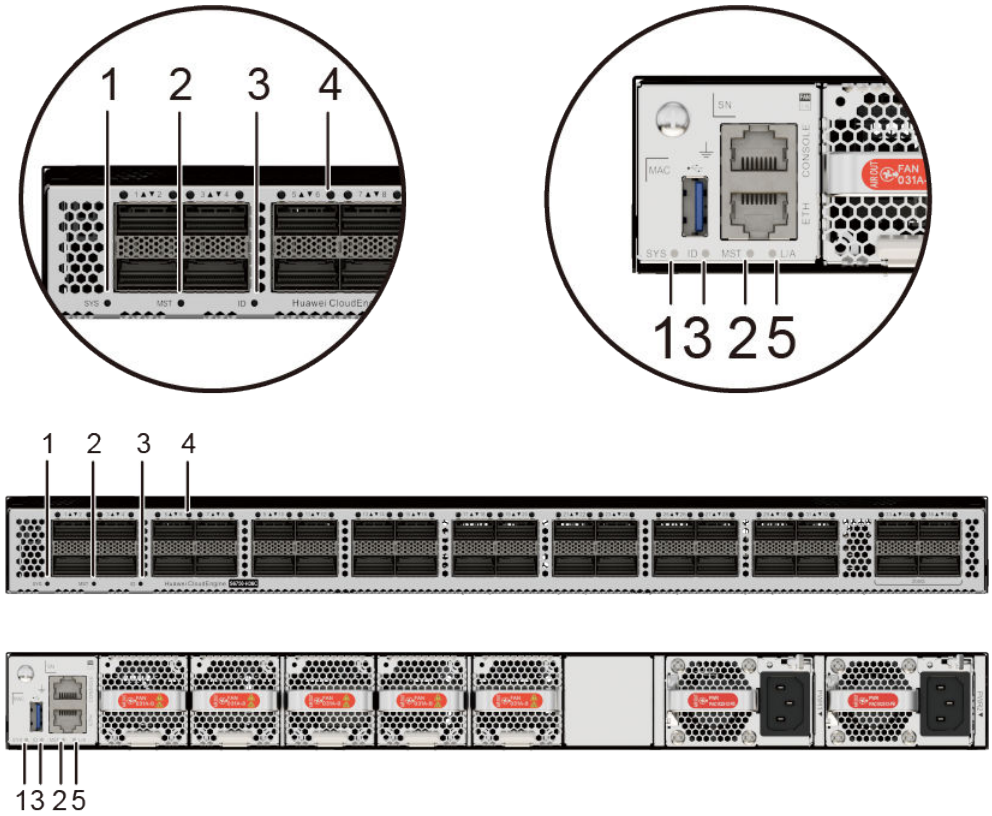


Table 4-87 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).

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No.	Indicator	Name	Color	Status	Description
2	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
3	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
4	-	Service port indicator (one indicator for each port)			Meanings of service port indicators vary in different modes. For details, see **Table 4-88**.
5	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.

Table 4-88 Description of service port indicators in different modes (one indicator for each port)

Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode **NOTE** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s.

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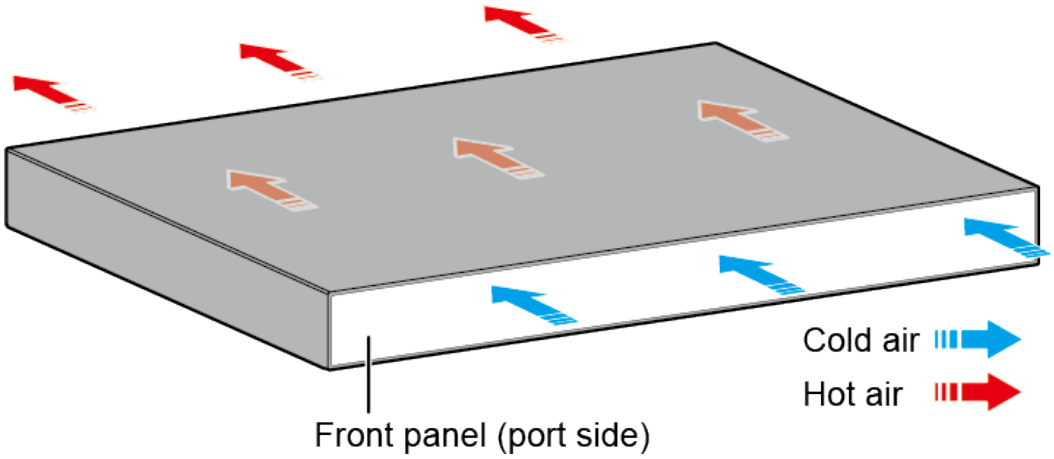
Display Mode	Color	Status	Description
	Green	Blinking	• 40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s.

Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

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Technical Specifications

Table 4-89 Technical specifications of the S6750-H36C

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.5 mm (1.72 in. x 17.4 in. x 17.58 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.72 kg (14.81 lb)
Weight with packaging [kg(lb)]	11 kg (24.25 lb)
Typical power consumption [W]	30% traffic under the ATIS standard and dual power modules: 537 W
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard and dual power modules: 1832.30
Maximum power consumption [W]	100% traffic under the ATIS standard and dual power modules: 558 W High temperature 45°C (113°F), 100% traffic, long-distance optical module, and dual power modules: 679 W
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard and dual power modules: 1903.95 High temperature 45°C (113°F), 100% traffic, long-distance optical module, and dual power modules: 2316.82
Static power consumption [W]	317 W
MTBF [years]	27.77 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	57.7 dB(A)

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Item	Specification
Noise at normal temperature (acoustic pressure) [dB(A)]	57.2 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	5
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC

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Item	Specification
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	8 GB
Flash memory	Physical space: 4 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.6.3 S6750-H48Y8C (02355UEL)

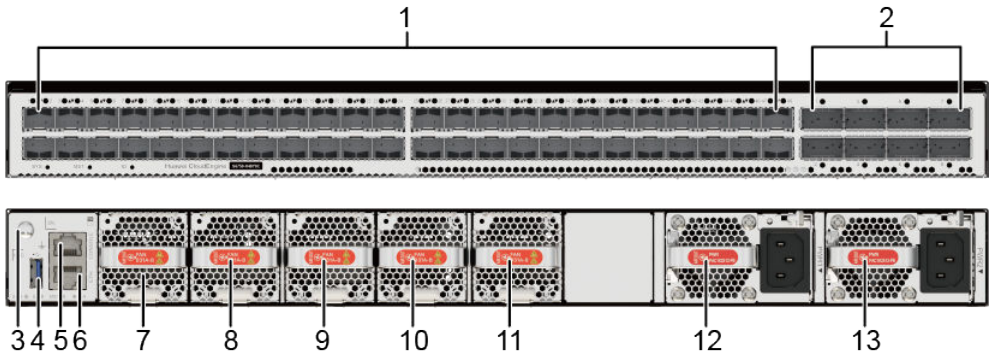
Overview

Table 4-90 Basic information about the S6750-H48Y8C

Item	Details
Description	S6750-H48Y8C (48*25GE SFP28 ports, 8*100GE QSFP28 ports, without power module)
Part Number	02355UEL
Model	S6750-H48Y8C
First supported version	V600R023C10

Components

Figure 4-32 S6750-H48Y8C appearance



1	Forty-eight 1GE/10GE/25GE SFP28 optical ports	2	Eight 40GE/100GE QSFP28 optical ports
3	Ground screw **NOTE** It is used with a **ground cable**.	4	One USB port
5	One console port	6	One ETH management port
7	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	8	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**

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9	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 4 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 5 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**
13	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	-	-

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Ports

Table 4-91 Ports on the S6750-H48Y8C

Port	Connector Type	Description	Available Components
1GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module on a port, run the port mode ge command to configure the port to work at 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m, 3 m, and 5 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**

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Port	Connector Type	Description	Available Components
			(only for zero-configuration stacking)
40GE/100GE QSFP28 optical port	QSFP28	QSFP28 optical ports are 100GE ports by default and can work at the rate of 40 Gbit/s. Ports 1 to 8: Every two ports (ports 1 and 2, 3 and 4, 5 and 6, and 7 and 8) form a group. When a port is split into 4 x 10GE or 4 x 25GE ports, the other port in the same group is also split. For example, when port 1 is split, port 2 is also split.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S6750-H48Y8C has the same types of indicators as the S6750-H36C. For details, see the S6750-H36C.

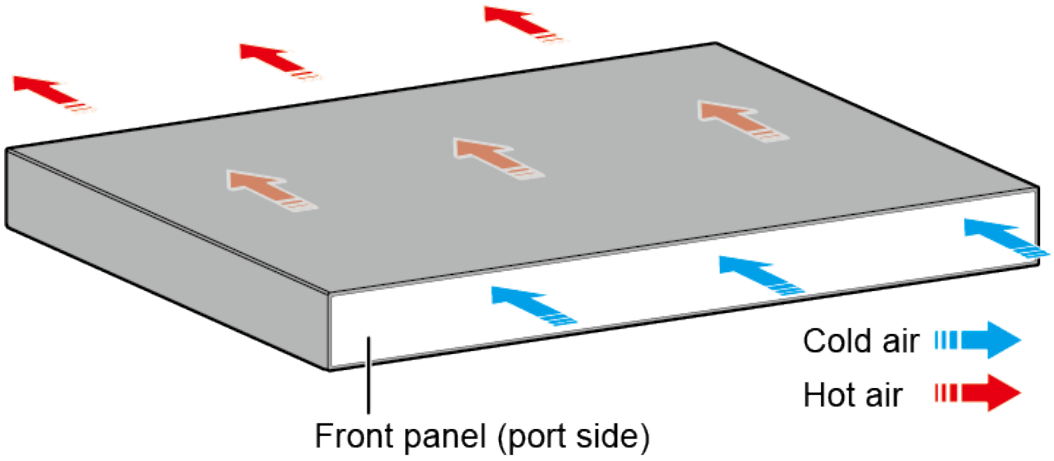
Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

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Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-92 Technical specifications of the S6750-H48Y8C

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.5 mm (1.72 in. x 17.4 in. x 17.58 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.96 kg (15.34 lb)
Weight with packaging [kg(lb)]	11.23 kg (24.76 lb)
Typical power consumption [W]	30% traffic under the ATIS standard and dual power modules: 223 W

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard and dual power modules: 760.90
Maximum power consumption [W]	100% traffic under the ATIS standard and dual power modules: 244 W High temperature 45°C (113°F), 100% traffic, and dual power modules: 342 W
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard and dual power modules: 832.55 High temperature 45°C (113°F), 100% traffic, and dual power modules: 1166.94
Static power consumption [W]	172 W
MTBF [years]	29.72 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	58.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	57.2 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	5
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	8 GB
Flash memory	Physical space: 4 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-

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Item	Specification
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.6.4 S6750-H48Y8C (02355UEL-001)

Overview

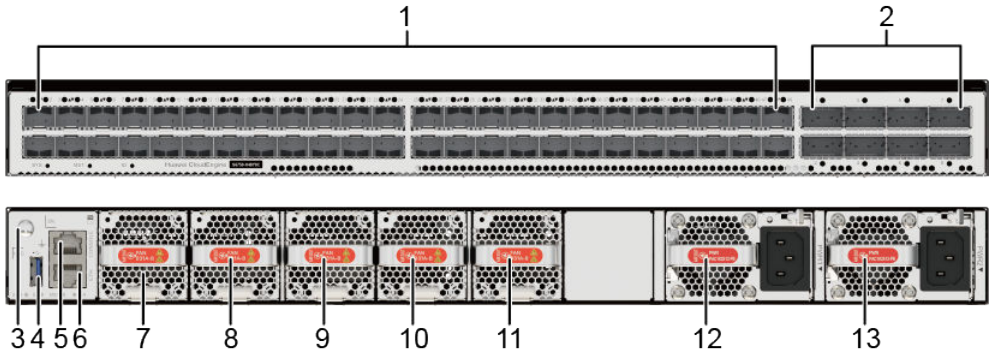
Table 4-93 Basic information about the S6750-H48Y8C

Item	Details
Description	S6750-H48Y8C (48*25GE SFP28 ports, 8*100GE QSFP28 ports, without power module, only for markets outside China)
Part Number	02355UEL-001
Model	S6750-H48Y8C
First supported version	V600R023C10

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Components

Figure 4-33 S6750-H48Y8C appearance



1	Forty-eight 1GE/10GE/25GE SFP28 optical ports	2	Eight 40GE/100GE QSFP28 optical ports
3	Ground screw **NOTE** It is used with a **ground cable**.	4	One USB port
5	One console port	6	One ETH management port
7	Fan module slot 1 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	8	Fan module slot 2 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
9	Fan module slot 3 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 4 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 5 **NOTE** Applicable fan module: **6.1 FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**

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13	Power module slot 2 **NOTE** Applicable power modules: • **PDC400S12-CB** (available since V600R024C00 version) • **PAC600S12-PB** • **PAC1K2S12-PB** • **PDC1K2S12-CE**	-	-

Ports

Table 4-94 Ports on the S6750-H48Y8C

Port	Connector Type	Description	Available Components
1GE/10GE/25GE SFP28 optical port	SFP28	A 1GE/10GE/25GE SFP28 optical port sends and receives service data at 1 Gbit/s, 10 Gbit/s, or 25 Gbit/s. When a 25GE optical module is connected to a port, the port can automatically adjust its rate to 25 Gbit/s. When a 10GE optical module is connected to a port, the port can automatically adjust its rate to 10 Gbit/s. Before installing a GE optical module or GE copper module on a port, run the port mode ge command to configure the port to work at 1 Gbit/s.	• **GE eSFP optical modules** • **GE-CWDM eSFP optical modules** • **GE-DWDM eSFP optical modules** • **GE SFP copper module** • **10GE SFP+ optical modules** • **10GE SFP+ copper modules (V600R024C00 and later versions)** • **25GE SFP28 optical modules** • **1 m, 3 m, 5 m, and 10 m SFP + high-speed copper cables** • **3 m and 10 m SFP+ AOC cables** • **1 m, 3 m, and 5 m SFP28 high-speed copper cables** • **3 m, 5 m, 7 m, and 10 m SFP28 AOC cables** • **0.5 m and 1.5 m SFP+ dedicated stack cables**

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Port	Connector Type	Description	Available Components
			(only for zero-configuration stacking)
40GE/100GE QSFP28 optical port	QSFP28	QSFP28 optical ports are 100GE ports by default and can work at the rate of 40 Gbit/s. Ports 1 to 8: Every two ports (ports 1 and 2, 3 and 4, 5 and 6, and 7 and 8) form a group. When a port is split into 4 x 10GE or 4 x 25GE ports, the other port in the same group is also split. For example, when port 1 is split, port 2 is also split.	• **40GE QSFP+ optical modules** • **1 m, 3 m, and 5 m QSFP+ to QSFP+ high-speed copper cables** • **10 m QSFP+ AOC cable** • **100GE QSFP28 optical modules** • **1 m and 3 m QSFP28 to QSFP28 high-speed copper cables** • **10 m QSFP28 to QSFP28 AOC cable** • **2 m QSFP28 dedicated stack cable (only for zero-configuration stacking)**
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**

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Port	Connector Type	Description	Available Components
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	Ethernet cable
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

The S6750-H48Y8C has the same types of indicators as the S6750-H36C. For details, see the S6750-H36C.

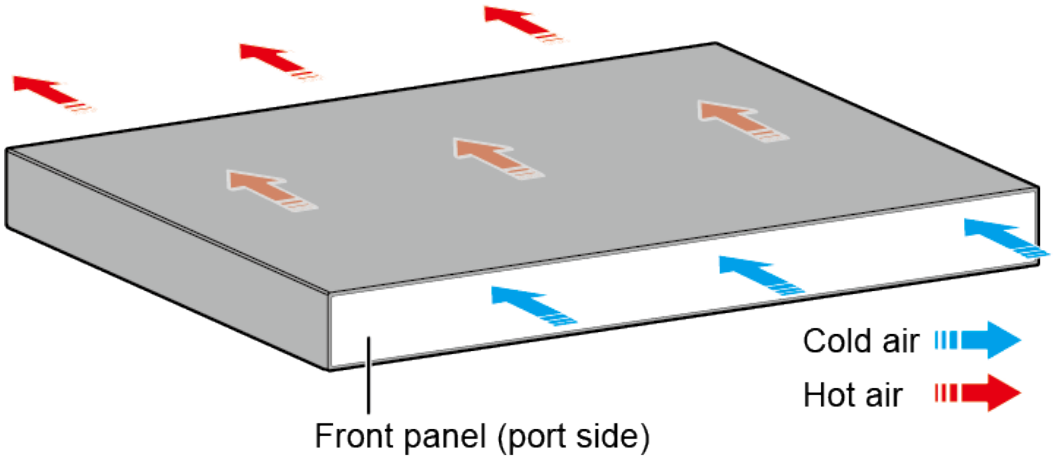
Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

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Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-95 Technical specifications of the S6750-H48Y8C

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 43.6 mm x 442.0 mm x 420.0 mm (1.72 in. x 17.4 in. x 16.54 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 43.6 mm x 442.0 mm x 446.5 mm (1.72 in. x 17.4 in. x 17.58 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	185.0 mm x 650.0 mm x 550.0 mm (7.28 in. x 25.59 in. x 21.65 in.)
Chassis height [U]	1 U
Chassis material	Metal
Weight without packaging [kg(lb)]	6.96 kg (15.34 lb)
Weight with packaging [kg(lb)]	11.23 kg (24.76 lb)
Typical power consumption [W]	30% traffic under the ATIS standard and dual power modules: 223 W

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Item	Specification
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard and dual power modules: 760.90
Maximum power consumption [W]	100% traffic under the ATIS standard and dual power modules: 244 W High temperature 45°C (113°F), 100% traffic, and dual power modules: 342 W
Maximum heat dissipation [BTU/hour]	100% traffic under the ATIS standard and dual power modules: 832.55 High temperature 45°C (113°F), 100% traffic, and dual power modules: 1166.94
Static power consumption [W]	172 W
MTBF [years]	29.72 years
MTTR [hours]	2 hours
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	58.4 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	57.2 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	5
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch.
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5905.44 ft.)

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Item	Specification
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F). When the QSFP-100G-ER4 optical module is used, the operating temperature ranges from -5°C to +40°C (23°F to 104°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	8 GB
Flash memory	Physical space: 4 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Service port surge protection [kV]	-

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Item	Specification
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.7 S6780-H

4.7.1 S6780-H4Z

Overview

Table 4-96 Basic information about the S6780-H4Z

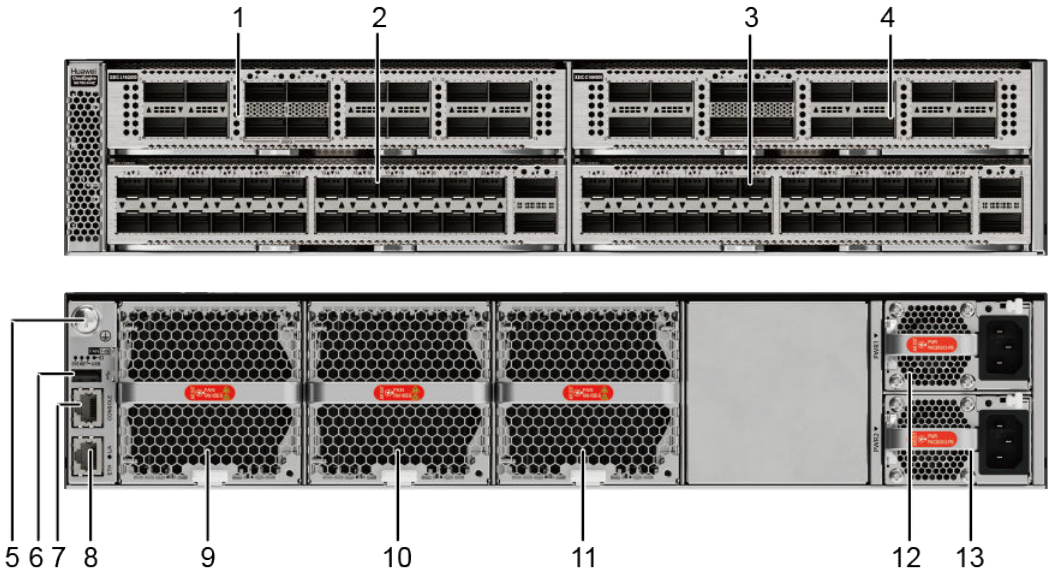
Item	Details
Description	S6780-H4Z mainframe (4*subcard slots, without power modules)
Part Number	02356DTY
Model	S6780-H4Z
First supported version	V600R024C00

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Item	Details
Remarks	• When four XSIC-C16H000 cards are configured, 2000 W AC power modules (110 V AC not supported) or 2200 W DC power modules must be used. • When four other cards of the same type are configured, AC or DC power modules with a power of 1200 W or higher must be used. • When cards of any other combination are configured, evaluate the power of the entire system based on the sum of the chassis power (240 W) and the power of each card and select proper power modules. (Note that the power of a 2000 W AC power module decreases to 900 W when the input voltage is 110 V AC.)

Components

Figure 4-34 S6780-H4Z appearance



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1	Card slot 1 **NOTE** Applicable cards: • **XSIC-X26B000** • **XSIC-Y26B000** • **XSIC-L16Q000** • **XSIC-C10H000** • **XSIC-C16H000** • **XSIC-D12B000**	2	Card slot 3 **NOTE** Applicable cards: • **XSIC-X26B000** • **XSIC-Y26B000** • **XSIC-L16Q000** • **XSIC-C10H000** • **XSIC-C16H000** • **XSIC-D12B000**
3	Card slot 4 **NOTE** Applicable cards: • **XSIC-X26B000** • **XSIC-Y26B000** • **XSIC-L16Q000** • **XSIC-C10H000** • **XSIC-C16H000** • **XSIC-D12B000**	4	Card slot 2 **NOTE** Applicable cards: • **XSIC-X26B000** • **XSIC-Y26B000** • **XSIC-L16Q000** • **XSIC-C10H000** • **XSIC-C16H000** • **XSIC-D12B000**
5	Ground screw **NOTE** It is used with a **ground cable**.	6	One USB port
7	One console port	8	One ETH management port
9	Fan module slot 1 **NOTE** Applicable fan module: **6.2 FAN-180E-B (Fan Box (B, Fan Panel Side Exhaust))**	10	Fan module slot 2 **NOTE** Applicable fan module: **6.2 FAN-180E-B (Fan Box (B, Fan Panel Side Exhaust))**
11	Fan module slot 3 **NOTE** Applicable fan module: **6.2 FAN-180E-B (Fan Box (B, Fan Panel Side Exhaust))**	12	Power module slot 1 **NOTE** Applicable power modules: • **PAC1K2S12-PB** • **PDC1K2S12-CE** • **PAC2KS12-PB** • **PDC2K2S12-PB**

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13	Power module slot 2 **NOTE** Applicable power modules: • **PAC1K2S12-PB** • **PDC1K2S12-CE** • **PAC2KS12-PB** • **PDC2K2S12-PB**	-	-

Ports

Table 4-97 Ports on the S6780-H4Z

Port	Connector Type	Description	Available Components
Console port	RJ45	The console port is connected to a console for on-site configuration.	**Console cable**
ETH management port	RJ45	You can connect a switch to a configuration terminal or network management workstation through the ETH management port to configure the switch locally or remotely.	**Ethernet cable**

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Port	Connector Type	Description	Available Components
USB port	USB 2.0 Type A	The USB port can have a USB flash drive connected to upgrade the switch, or transfer configuration files or other files. The USB port can only connect to a USB flash drive that complies with USB 2.0. USB flash drives from different vendors differ in model compatibility and drivers. If a USB flash drive cannot be used, try to replace it with another one from a mainstream vendor.	USB flash drive

Indicators and Buttons

Figure 4-35 Indicators on the switch



Table 4-98 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.

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No.	Indicator	Name	Color	Status	Description
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	A fault that affects services has occurred and it cannot be rectified automatically (critical alarm about hardware).
2	MST	Stack indicator	-	Off	The switch is not the master switch in a stack.
			Green	Blinking	The switch is the master switch in a stack or a standalone switch.
3	USB	USB-based deployment indicator	-	Off	No USB flash drive is installed, or the indicator fails.
			Green	Steady on	USB-based deployment succeeds. If there is no deployment configuration file, deployment will be repeatedly performed. In this case, the indicator is also steady green.
			Green	Blinking	USB-based deployment is in progress.
			Red	Steady on	USB-based deployment fails.
4	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.
5	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The Eth port is sending or receiving data.

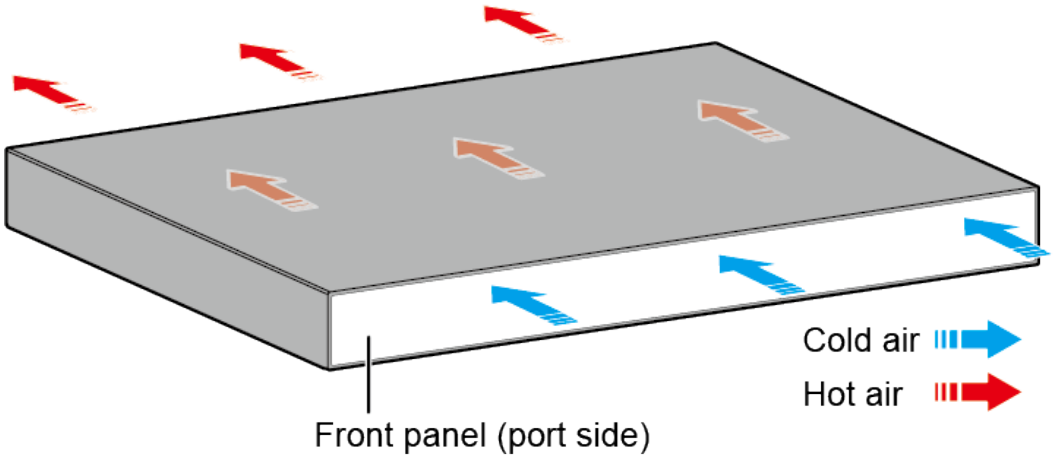
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Power Supply System

The switch can use a single power module or two power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch.

Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the front side and exhausts from the rear panel.



NOTE

This figure only shows the airflow direction and does not depict the actual device.

Technical Specifications

Table 4-99 Technical specifications of the S6780-H4Z

Item	Specification
Dimensions without packaging (H x W x D) [mm(in.)]	Basic dimensions (excluding the parts protruding from the body): 88.1 mm x 442.0 mm x 600.0 mm (3.47 in. x 17.40 in. x 23.62 in.) Maximum dimensions (the depth is the distance from ports on the front panel to the parts protruding from the rear panel): 88.1 mm x 442.0 mm x 640.0 mm (3.47 in. x 17.40 in. x 25.20 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	280.0 mm x 875.0 mm x 665.0 mm (11.02 in. x 34.45 in. x 26.18 in.)
Chassis height [U]	2 U
Chassis material	Metal

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Item	Specification
Weight without packaging [kg(lb)]	20.50 kg (45.19 lb)
Weight with packaging [kg(lb)]	26.82 kg (59.13 lb)
Typical power consumption [W]	Configured with four XSIC-C16H000 cards: 940 W Configured with four XSIC-L16Q000 cards: 724 W Configured with four XSIC-C10H000 cards: 508 W Configured with four XSIC-D12B000 cards: 621 W Configured with four XSIC-Y26B000 cards: 423 W Configured with four XSIC-X26B000 cards: 366 W
Typical heat dissipation [BTU/hour]	Configured with four XSIC-C16H000 cards: 3207.37 BTU/hour Configured with four XSIC-L16Q000 cards: 2470.36 BTU/hour Configured with four XSIC-C10H000 cards: 1733.35 BTU/hour Configured with four XSIC-D12B000 cards: 2118.91 BTU/hour Configured with four XSIC-Y26B000 cards: 1433.32 BTU/hour Configured with four XSIC-X26B000 cards: 1248.83 BTU/hour

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Item	Specification
Maximum power consumption [W]	Configured with four XSIC-C16H000 cards: - 1306 W (two 2000 W AC power modules, 220 V input) Configured with four XSIC-L16Q000 cards: - 1138 W (two 1200 W AC power modules, 110 V input) Configured with four XSIC-C10H000 cards: - 832 W (two 1200 W AC power modules, 110 V input) Configured with four XSIC-D12B000 cards: - 1078 W (two 1200 W AC power modules, 110 V input) Configured with four XSIC-Y26B000 cards: - 796 W (two 1200 W AC power modules, 110 V input) Configured with four XSIC-X26B000 cards: - 788 W (two 1200 W AC power modules, 110 V input)

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Item	Specification
Maximum heat dissipation [BTU/hour]	Configured with four XSIC-C16H000 cards: - 4456.20 BTU/hour (two 2000 W AC power modules, 220 V input) Configured with four XSIC-L16Q000 cards: - 3882.97 BTU/hour (two 1200 W AC power modules, 110 V input) Configured with four XSIC-C10H000 cards: - 2838.87 BTU/hour (two 1200 W AC power modules, 110 V input) Configured with four XSIC-D12B000 cards: - 3678.24 BTU/hour (two 1200 W AC power modules, 110 V input) Configured with four XSIC-Y26B000 cards: - 2716.03 BTU/hour (two 1200 W AC power modules, 110 V input) Configured with four XSIC-X26B000 cards: - 2688.73 BTU/hour (two 1200 W AC power modules, 110 V input)
Static power consumption [W]	Configured with four XSIC-C16H000 cards: 593 W Configured with four XSIC-L16Q000 cards: 539 W Configured with four XSIC-C10H000 cards: 295 W Configured with four XSIC-D12B000 cards: 299 W Configured with four XSIC-Y26B000 cards: 259 W Configured with four XSIC-X26B000 cards: 259 W
MTBF [years]	48.4 years
MTTR [hours]	2 hours
Availability	> 0.99999

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Item	Specification
Noise at normal temperature (acoustic power) [dB(A)]	86.1 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	74.1 dB(A)
Number of card slots	4
Number of power slots	2
Number of fans modules	3
Redundant power supply	1+1
Long-term operating temperature [°C(°F)]	–5°C to +45°C (23°F to 113°F) at an altitude of 0 to 1800 m (0 to 5906 ft.) When the QSFP-100G-ZR4 or QSFP-DD-400G-LR8 optical modules are configured, the operating temperature ranges from –5°C to +40°C (23°F to 104°F).
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	Pluggable power supply
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC; 50/60 Hz • High-voltage DC input: 240 V DC • DC input: –48 V DC to –60 V DC
Input voltage range [V]	• AC input: 90 V AC to 290 V AC; 45–65 Hz • High-voltage DC input: 190 V DC to 290 V DC • DC input: -38.4 V DC to -72 V DC

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Item	Specification
Maximum input current [A]	The current specifications are related to the pluggable power module. For details, see Pluggable Power Modules.
Memory	8 GB
Flash memory	Physical space: 4 GB
Console port	RJ45
Eth Management port	RJ45
USB	Supported
RTC	Supported
RPS input	Not supported
Power supply surge protection [kV]	• Configured with AC power modules: ±6 kV in differential mode and ±6 kV in common mode • Configured with DC power modules: ±2 kV in differential mode and ±4 kV in common mode
Ingress protection level (dustproof/ waterproof)	IP20
Types of fans	Pluggable
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

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