

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

S6730S-H48X4Y4CZ-KA-V2

A B C D E F G H I J K L M N O P

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 to 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 (1 or 2 characters)
H	Downlink port type (1 character) • T: GE electrical port • P: GE electrical port, supporting PoE+ • X: 10GE optical port • Y: 25GE optical port • C: 100GE optical port
I	Number of uplink ports of type 1 (0 or 1 character)
J	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
K	Number of uplink ports of type 2 (0 or 1 character)

Identifier	Description
L	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
M	Support for pluggable cards (0 or 1 character) • Empty: The switch does not support pluggable cards. • Z: The switch supports pluggable cards.
N	Special function type (0 or 1 character) • Empty: By default, this field is left empty. • T: The switch supports hardware trust module (HTM).
O	Power module type (0 to 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.
P	Version type (0 to 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:

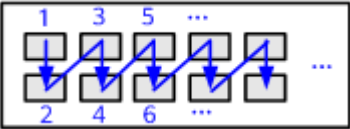
A single switch uses slot ID/subcard ID/port sequence number to identify physical ports.

- 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 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

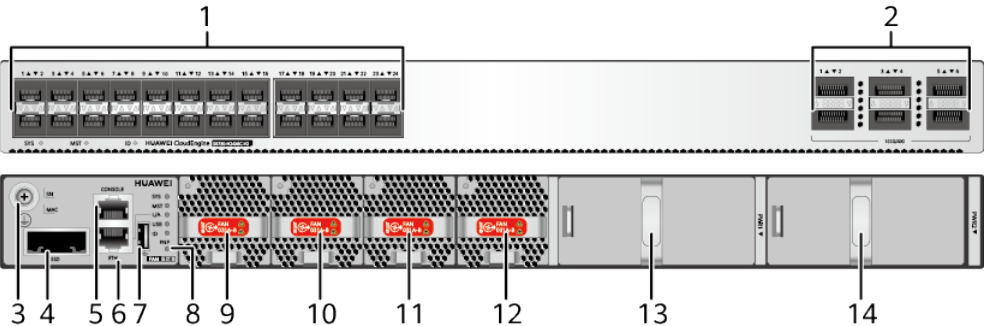
Overview

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

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 are 40GE ports. A 100GE RTU License can be used to upgrade the ports to 100GE ports. After the license is activated, you can run the port mode 100GE interface command to switch the ports to 100GE ports.
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))

1 1	Fan module slot 3 NOTE Applicable fan module: 6.1 FAN-031A-B (Fan box(B,FAN panel side exhaust))	1 2	Fan module slot 4 NOTE Applicable fan module: 6.1 FAN-031A-B (Fan box(B,FAN panel side exhaust))
1 3	Power module slot 1 NOTE Applicable power modules: • 5.1 PAC600S12-CB (600 W AC&240 V DC Power Module) • 5.3 PAC600S12-EB (600 W AC&240 V DC Power Module) • 5.2 PAC600S12-DB (600 W AC&240 V DC Power Module) • 5.5 PDC1000S12-DB (1000 W DC Power Module)	1 4	Power module slot 2 NOTE Applicable power modules: • 5.1 PAC600S12-CB (600 W AC&240 V DC Power Module) • 5.3 PAC600S12-EB (600 W AC&240 V DC Power Module) • 5.2 PAC600S12-DB (600 W AC&240 V DC Power Module) • 5.5 PDC1000S12-DB (1000 W DC Power Module)

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+

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 are 40GE ports. A License can be used to upgrade the ports to 100GE ports.	• 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,

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

Indicators and Buttons

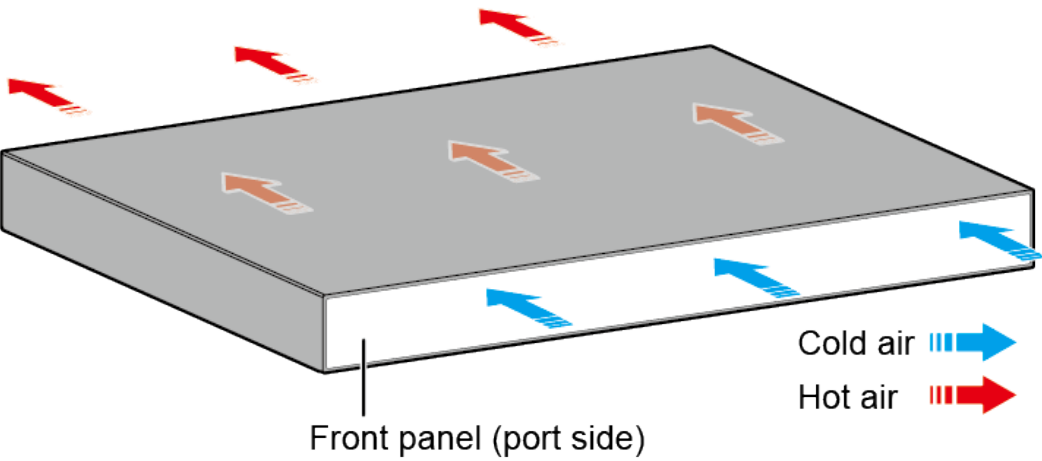
The S6730-H24X6C-V2 has the same types of indicators as the S6730-H48X6C-V2. For details, see the S6730-H48X6C-V2.

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.)

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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.

Item	Specification
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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
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

Item	Specification
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

4.4.2 S6730-H24X6C-TV2

Overview

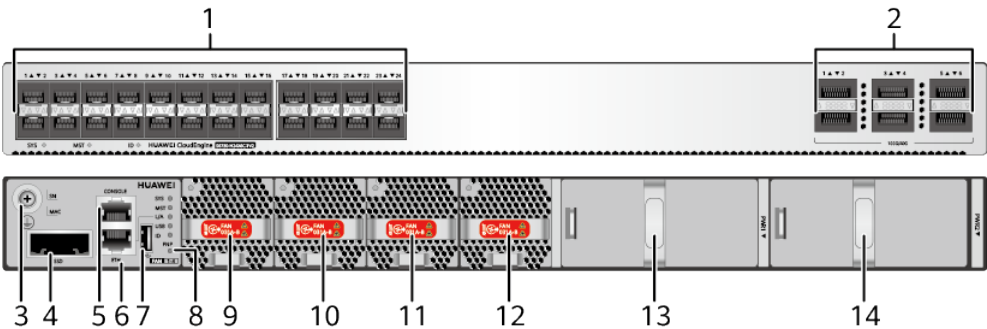
Table 4-6 Basic information about the S6730-H24X6C-TV2

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)

Item	Details
Part Number	02354NGS
Model	S6730-H24X6C-TV2
First supported version	V600R022C00

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 are 40GE ports. A 100GE RTU License can be used to upgrade the ports to 100GE ports. After the license is activated, you can run the port mode 100GE interface command to switch the ports to 100GE ports.
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))
13	Power module slot 1 NOTE Applicable power modules: • 5.1 PAC600S12-CB (600 W AC&240 V DC Power Module) • 5.3 PAC600S12-EB (600 W AC&240 V DC Power Module) • 5.2 PAC600S12-DB (600 W AC&240 V DC Power Module) • 5.5 PDC1000S12-DB (1000 W DC Power Module)	14	Power module slot 2 NOTE Applicable power modules: • 5.1 PAC600S12-CB (600 W AC&240 V DC Power Module) • 5.3 PAC600S12-EB (600 W AC&240 V DC Power Module) • 5.2 PAC600S12-DB (600 W AC&240 V DC Power Module) • 5.5 PDC1000S12-DB (1000 W DC Power Module)

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+

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 are 40GE ports. A License can be used to upgrade the ports to 100GE ports.	• 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,

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

Indicators and Buttons

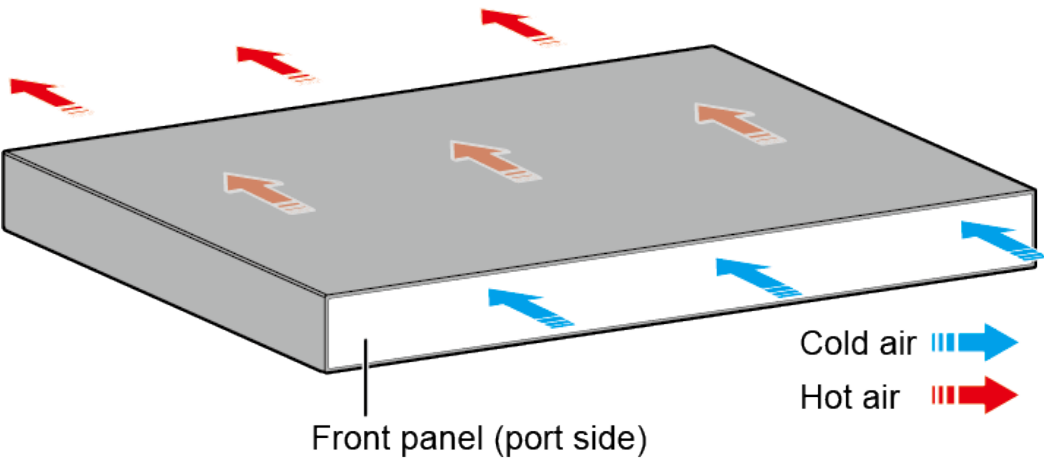
The S6730-H24X6C-TV2 has the same types of indicators as the S6730-H48X6C-TV2. For details, see the S6730-H48X6C-TV2.

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.)

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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.

Item	Specification
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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
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

Item	Specification
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

4.4.3 S6730-H28X6CZ-V2 (02354VCR)

Overview

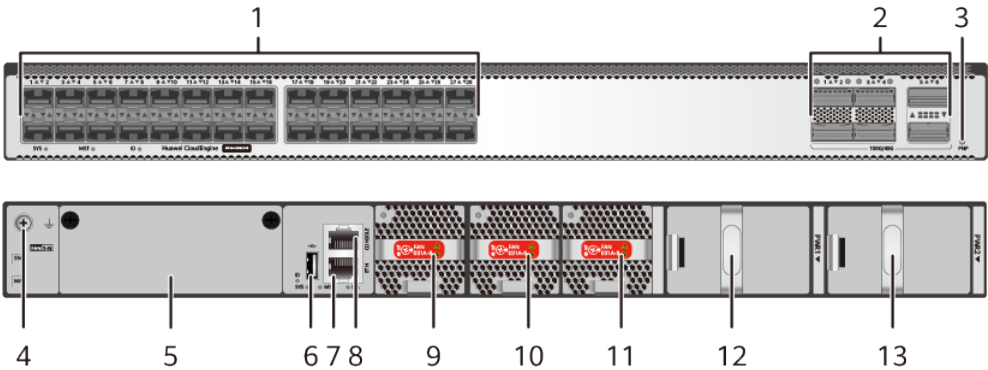
Table 4-9 Basic information about the S6730-H28X6CZ-V2

Item	Details
Description	S6730-H28X6CZ-V2 bundle (28*10GE SFP+ ports, 6*100GE QSFP28 ports, with license, 1*expansion slot, without power module)

Item	Details
Part Number	02354VCR
Model	S6730-H28X6CZ-V2
First supported version	V600R022C00

Components

Figure 4-4 S6730-H28X6CZ-V2 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 and QSFP28 ports on the switch work as 40GE ports, you can run the port mode 100GE interface command to switch the ports to 100GE ports.
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	One card slot NOTE The card slot is reserved and cannot be used currently.	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: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 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: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))	-	-

Ports

Table 4-10 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+

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 and QSFP28 ports on the switch work as 40GE ports, you can run the port mode 100GE interface command to switch the ports to 100GE ports. In V600R023C10 and later versions, the port can 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)

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

Indicators and Buttons

Figure 4-5 Indicators on the switch

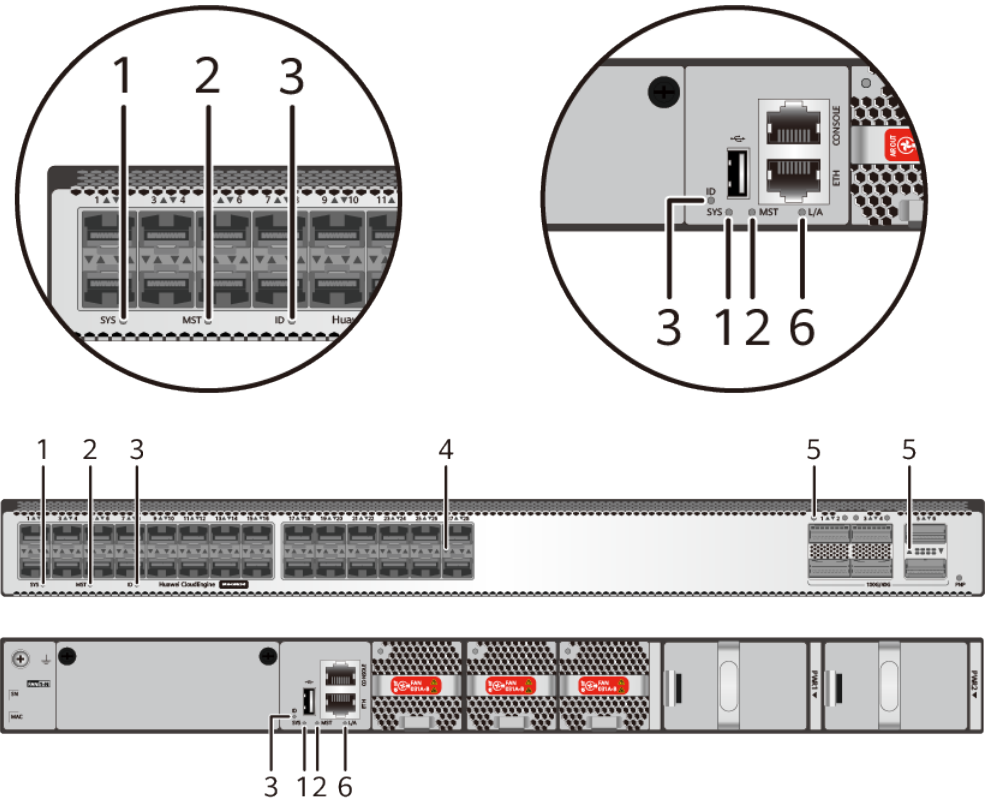


Table 4-11 Description of indicators on the switch

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).

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.

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

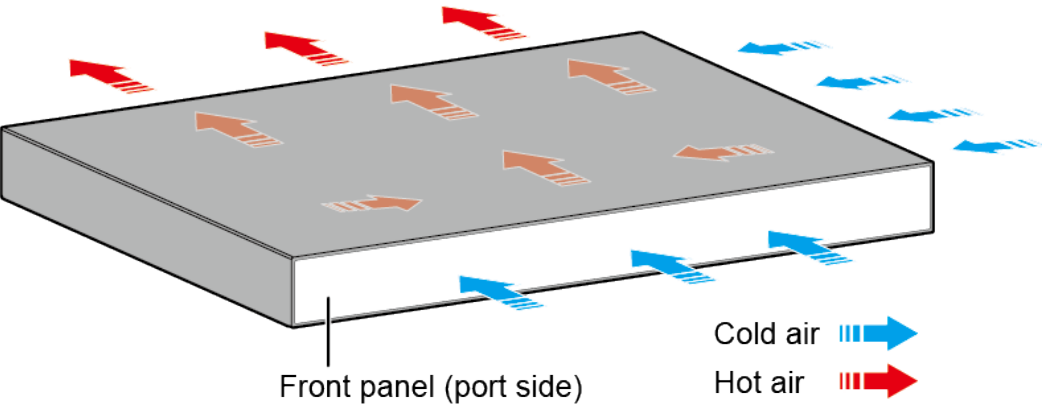
Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode NOTE In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the set device led mode Speed command.	-	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.

Technical Specifications

Table 4-14 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)

Item	Specification
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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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.)

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]	-

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

4.4.4 S6730-H28X6CZ-TV2 (02354VCS)

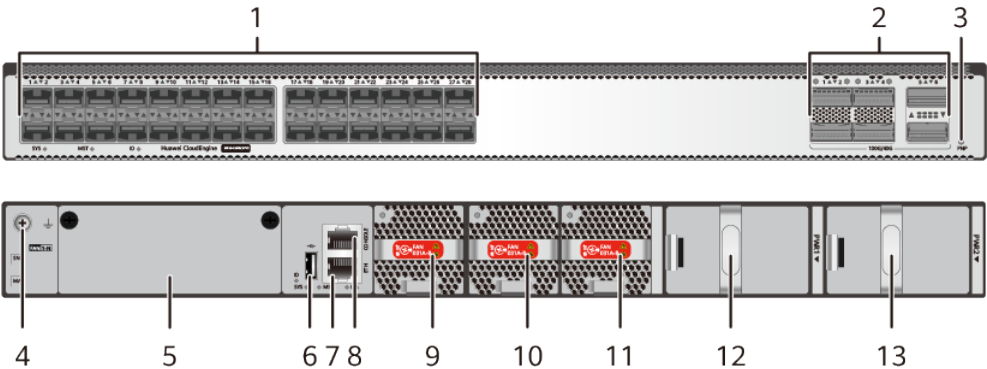
Overview

Table 4-15 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
First supported version	V600R022C00

Components

Figure 4-6 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 and QSFP28 ports on the switch work as 40GE ports, you can run the port mode 100GE interface command to switch the ports to 100GE ports.
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	One card slot NOTE The card slot is reserved and cannot be used currently.	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))

1 1	Fan module slot 3 NOTE Applicable fan module: 6.1 FAN-031A-B (Fan box(B,FAN panel side exhaust))	1 2	Power module slot 1 NOTE Applicable power modules: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))
1 3	Power module slot 2 NOTE Applicable power modules: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))	-	-

Ports

Table 4-16 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+

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 and QSFP28 ports on the switch work as 40GE ports, you can run the port mode 100GE interface command to switch the ports to 100GE ports. In V600R023C10 and later versions, the port can 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)

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

Indicators and Buttons

Figure 4-7 Indicators on the switch

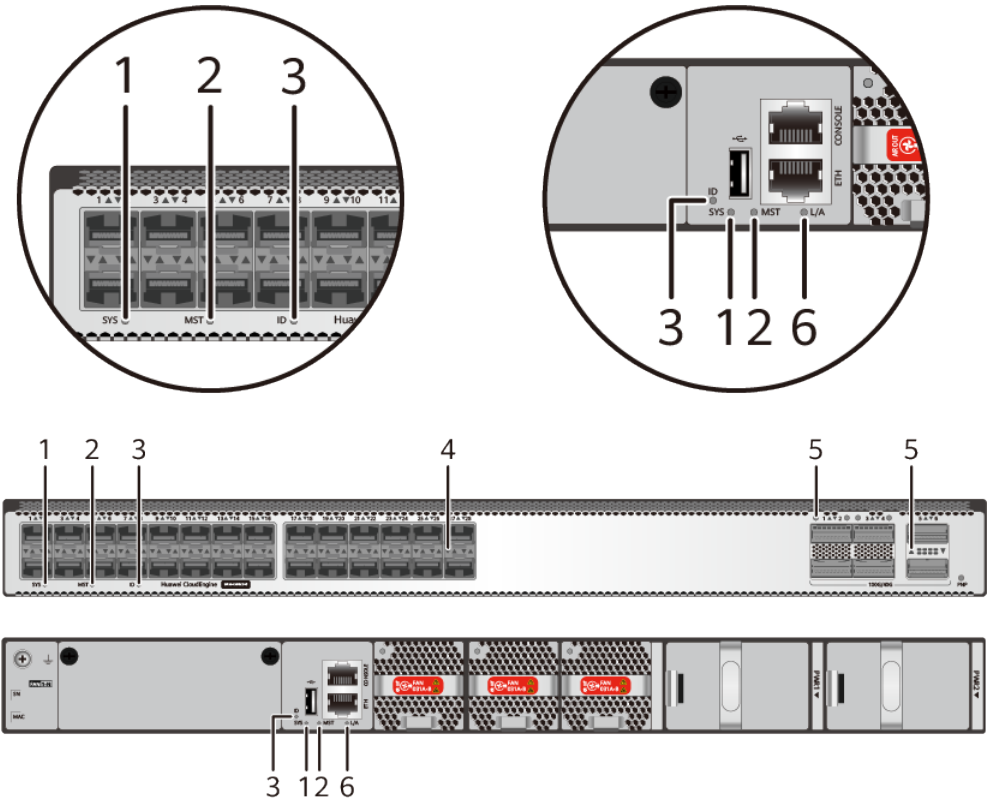


Table 4-17 Description of indicators on the switch

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).

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.

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

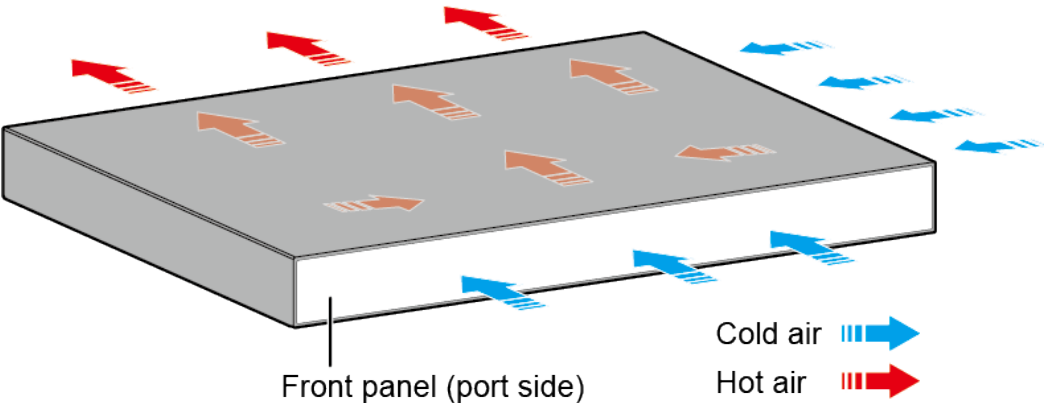
Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode NOTE In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the set device led mode Speed command.	-	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.

Technical Specifications

Table 4-20 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)

Item	Specification
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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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.)

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]	-

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

4.4.5 S6730-H28X6CZ-V2 (02354VUF)

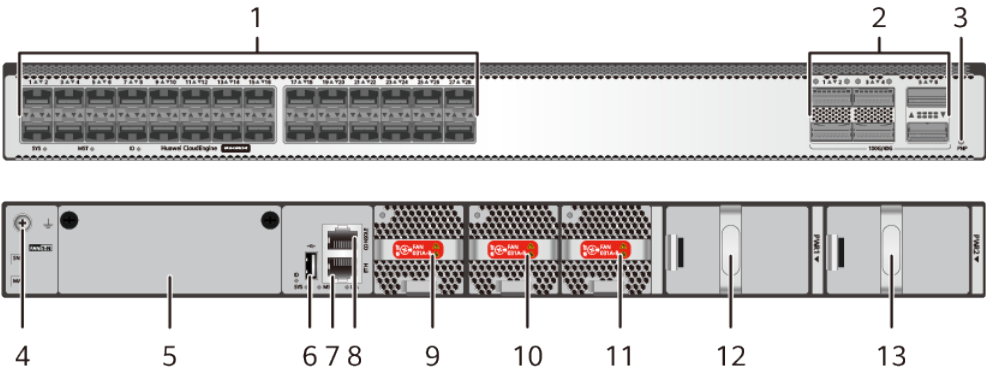
Overview

Table 4-21 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
Model	S6730-H28X6CZ-V2
First supported version	V600R022C00

Components

Figure 4-8 S6730-H28X6CZ-V2 appearance



1	Twenty-eight 10GE SFP+ optical ports	2	Six 40GE/100GE QSFP28 optical ports NOTE By default, QSFP28 optical ports are 40GE ports. A 100GE RTU License can be used to upgrade the ports to 100GE ports. After the license is activated, you can run the port mode 100GE interface command to switch the ports to 100GE ports.
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	One card slot NOTE The card slot is reserved and cannot be used currently.	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))

1 1	Fan module slot 3 NOTE Applicable fan module: 6.1 FAN-031A-B (Fan box(B,FAN panel side exhaust))	1 2	Power module slot 1 NOTE Applicable power modules: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))
1 3	Power module slot 2 NOTE Applicable power modules: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))	-	-

Ports

Table 4-22 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+

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 are 40GE ports. A License can be used to upgrade the ports to 100GE ports. In V600R023C10 and later versions, the port can 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)

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

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 4-9 Indicators on the switch

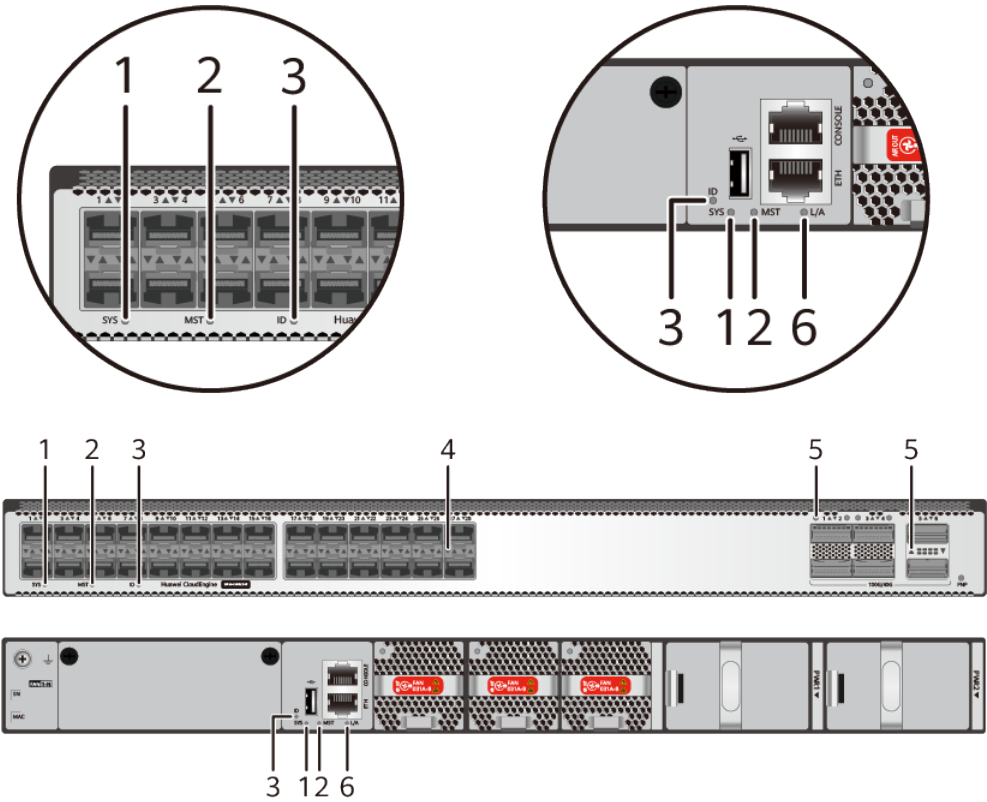


Table 4-23 Description of indicators on the switch

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).

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 4-24 and Table 4-25 .
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.

Table 4-24 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 command.	-	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 4-25 Description of service port indicators in different modes (one indicator for each port)

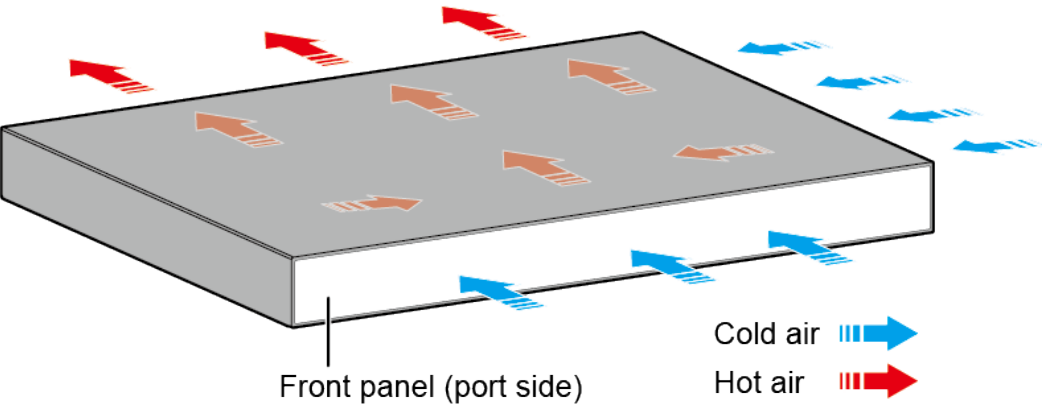
Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode NOTE In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the set device led mode Speed command.	-	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.

Technical Specifications

Table 4-26 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)

Item	Specification
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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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.)

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]	-

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

4.4.6 S6730-H28X6CZ-TV2 (02354VUG)

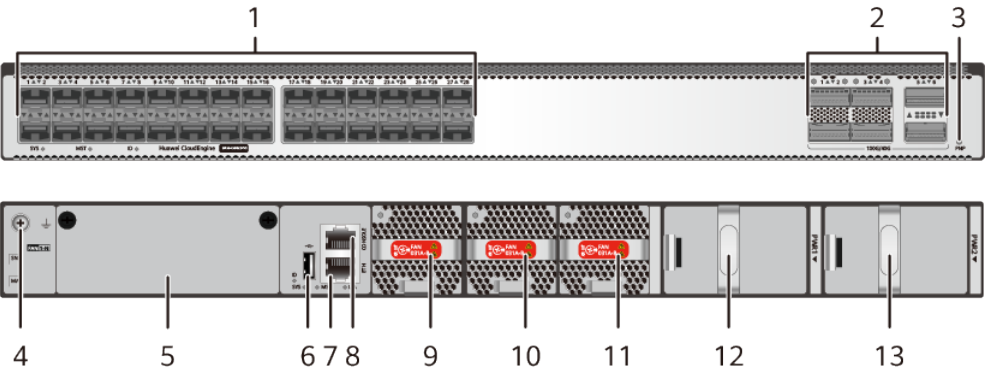
Overview

Table 4-27 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
Model	S6730-H28X6CZ-TV2
First supported version	V600R022C00

Components

Figure 4-10 S6730-H28X6CZ-TV2 appearance



1	Twenty-eight 10GE SFP+ optical ports	2	Six 40GE/100GE QSFP28 optical ports NOTE By default, QSFP28 optical ports are 40GE ports. A 100GE RTU License can be used to upgrade the ports to 100GE ports. After the license is activated, you can run the port mode 100GE interface command to switch the ports to 100GE ports.
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	One card slot NOTE The card slot is reserved and cannot be used currently.	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))

1 1	Fan module slot 3 NOTE Applicable fan module: 6.1 FAN-031A-B (Fan box(B,FAN panel side exhaust))	1 2	Power module slot 1 NOTE Applicable power modules: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))
1 3	Power module slot 2 NOTE Applicable power modules: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))	-	-

Ports

Table 4-28 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+

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 are 40GE ports. A License can be used to upgrade the ports to 100GE ports. In V600R023C10 and later versions, the port can 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)

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

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 4-11 Indicators on the switch

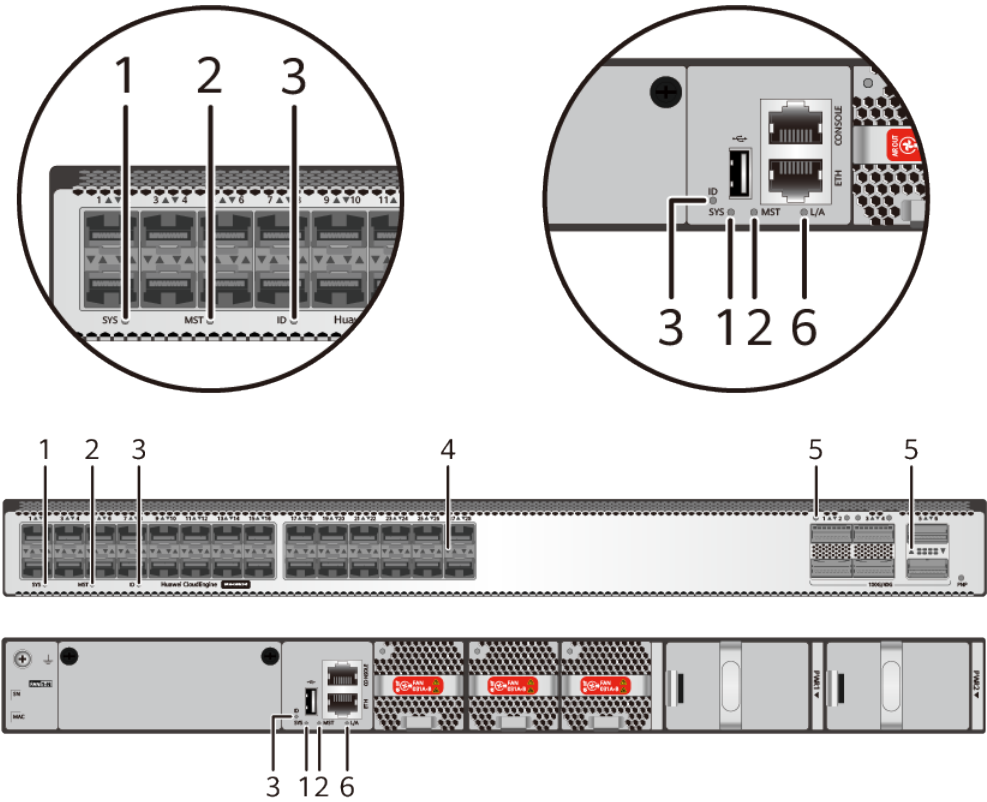


Table 4-29 Description of indicators on the switch

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).

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.

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 command.	-	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)

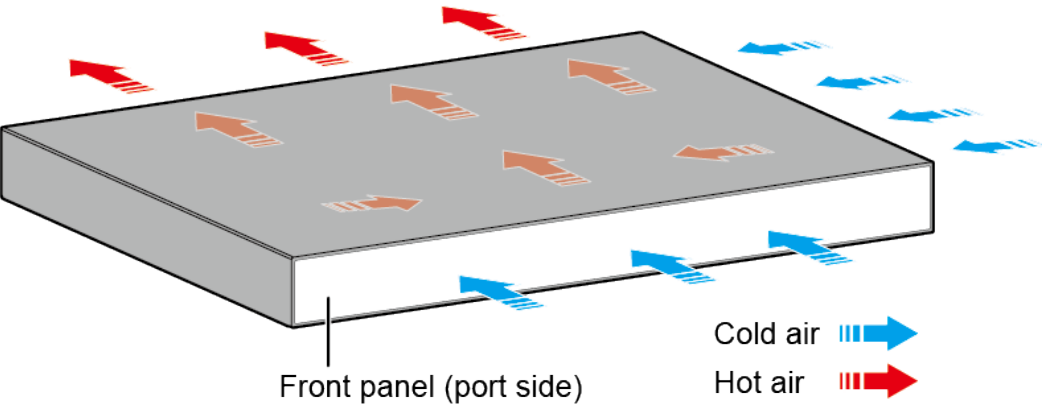
Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode NOTE In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the set device led mode Speed command.	-	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.

Technical Specifications

Table 4-32 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)

Item	Specification
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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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.)

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]	-

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

4.4.7 S6730-H48X6C-V2

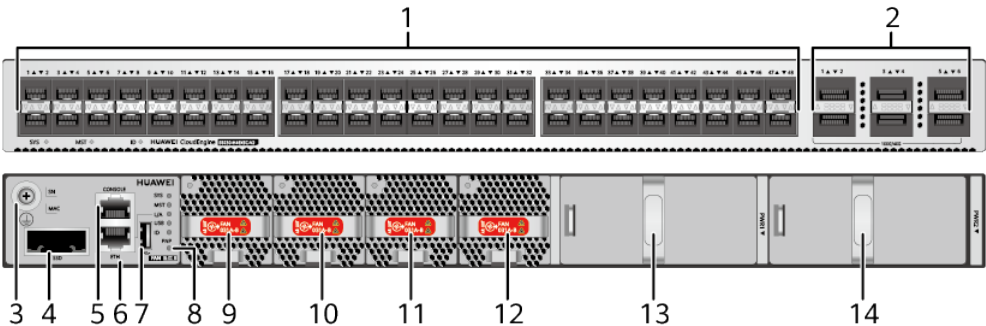
Overview

Table 4-33 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

Components

Figure 4-12 S6730-H48X6C-V2 appearance



1	Forty-eight 10GE SFP+ ports	2	Six 40GE/100GE QSFP28 optical ports NOTE By default, QSFP28 optical ports are 40GE ports. A 100GE RTU License can be used to upgrade the ports to 100GE ports. After the license is activated, you can run the port mode 100GE interface command to switch the ports to 100GE ports.
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))

1 1	Fan module slot 3 NOTE Applicable fan module: 6.1 FAN-031A-B (Fan box(B,FAN panel side exhaust))	1 2	Fan module slot 4 NOTE Applicable fan module: 6.1 FAN-031A-B (Fan box(B,FAN panel side exhaust))
1 3	Power module slot 1 NOTE Applicable power modules: • 5.1 PAC600S12-CB (600 W AC&240 V DC Power Module) • 5.3 PAC600S12-EB (600 W AC&240 V DC Power Module) • 5.2 PAC600S12-DB (600 W AC&240 V DC Power Module) • 5.5 PDC1000S12-DB (1000 W DC Power Module)	1 4	Power module slot 2 NOTE Applicable power modules: • 5.1 PAC600S12-CB (600 W AC&240 V DC Power Module) • 5.3 PAC600S12-EB (600 W AC&240 V DC Power Module) • 5.2 PAC600S12-DB (600 W AC&240 V DC Power Module) • 5.5 PDC1000S12-DB (1000 W DC Power Module)

Ports

Table 4-34 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+

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 are 40GE ports. A License can be used to upgrade the ports to 100GE ports.	• 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,

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

Indicators and Buttons

Figure 4-13 Indicators on the switch

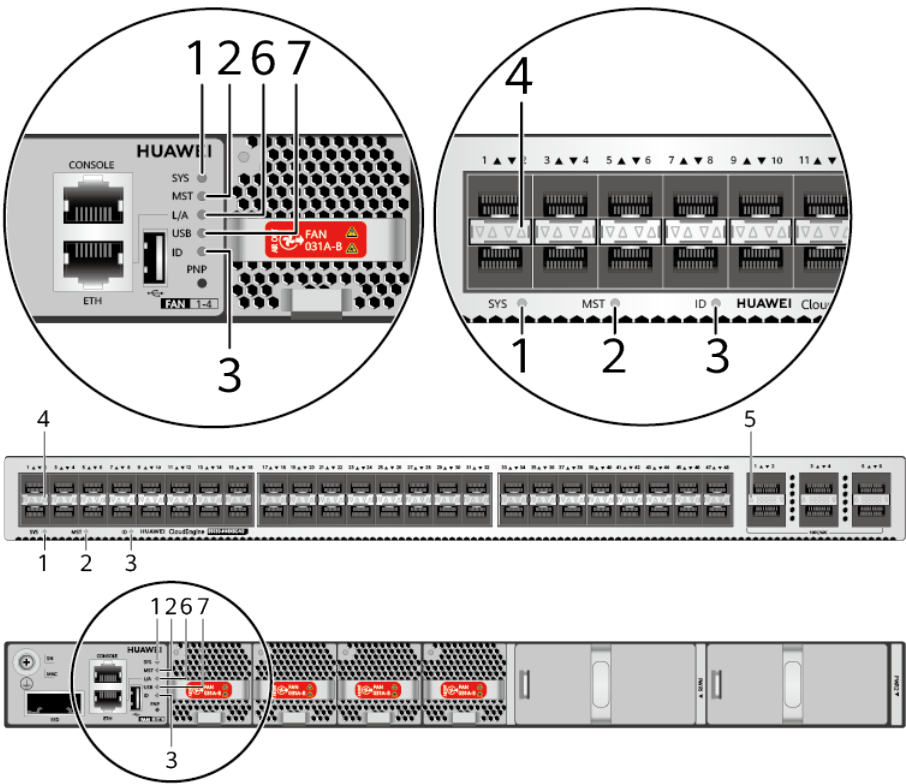


Table 4-35 Description of indicators on the switch

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).

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.
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.

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

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 command.	-	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 4-37 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.

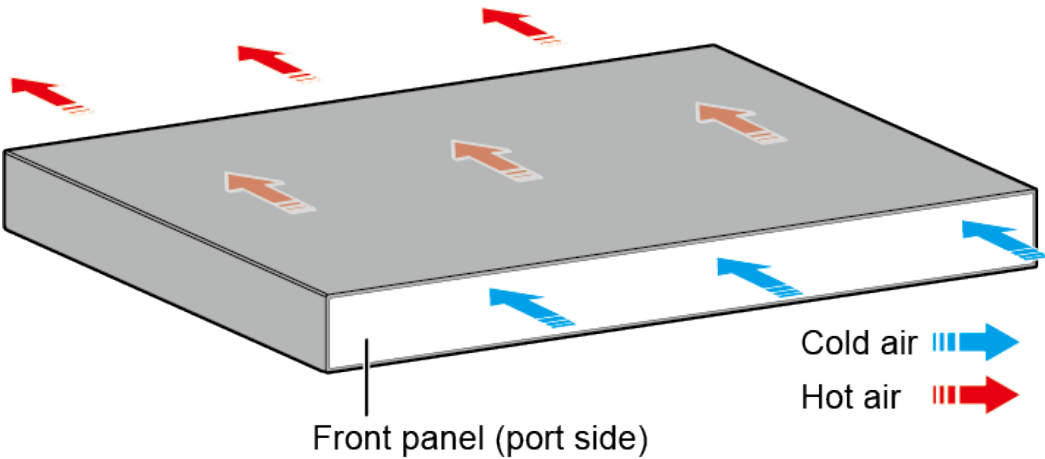
Display Mode	Color	Status	Description
	Green	Blinking	The port is sending or receiving data.
Speed mode NOTE In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the set device led mode Speed command.	-	Off	The port is not connected or has been shut down.
	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.

Technical Specifications

Table 4-38 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

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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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

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: 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

Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.4.8 S6730-H48X6C-TV2

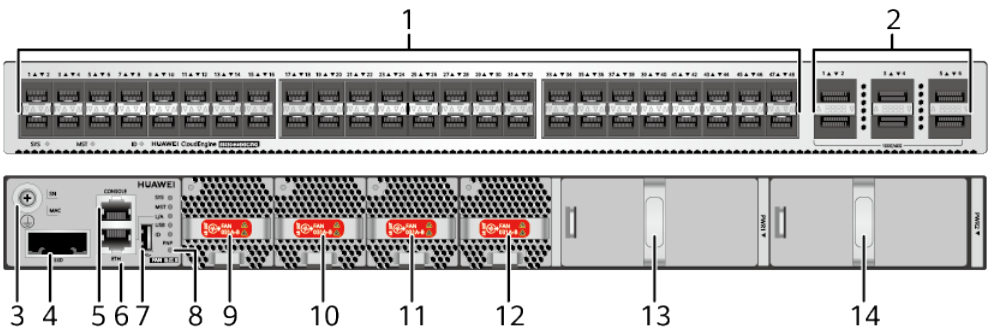
Overview

Table 4-39 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

Components

Figure 4-14 S6730-H48X6C-TV2 appearance



1	Forty-eight 10GE SFP+ ports	2	Six 40GE/100GE QSFP28 optical ports NOTE By default, QSFP28 optical ports are 40GE ports. A 100GE RTU License can be used to upgrade the ports to 100GE ports. After the license is activated, you can run the port mode 100GE interface command to switch the ports to 100GE ports.
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))

1 3	Power module slot 1 NOTE Applicable power modules: 5.1 PAC600S12-CB (600 W AC&240 V DC Power Module) 5.3 PAC600S12-EB (600 W AC&240 V DC Power Module) 5.2 PAC600S12-DB (600 W AC&240 V DC Power Module) 5.5 PDC1000S12-DB (1000 W DC Power Module)	1 4	Power module slot 2 NOTE Applicable power modules: 5.1 PAC600S12-CB (600 W AC&240 V DC Power Module) 5.3 PAC600S12-EB (600 W AC&240 V DC Power Module) 5.2 PAC600S12-DB (600 W AC&240 V DC Power Module) 5.5 PDC1000S12-DB (1000 W DC Power Module)
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Ports

Table 4-40 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+

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 are 40GE ports. A License can be used to upgrade the ports to 100GE ports.	• 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,

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

Indicators and Buttons

Figure 4-15 Indicators on the switch

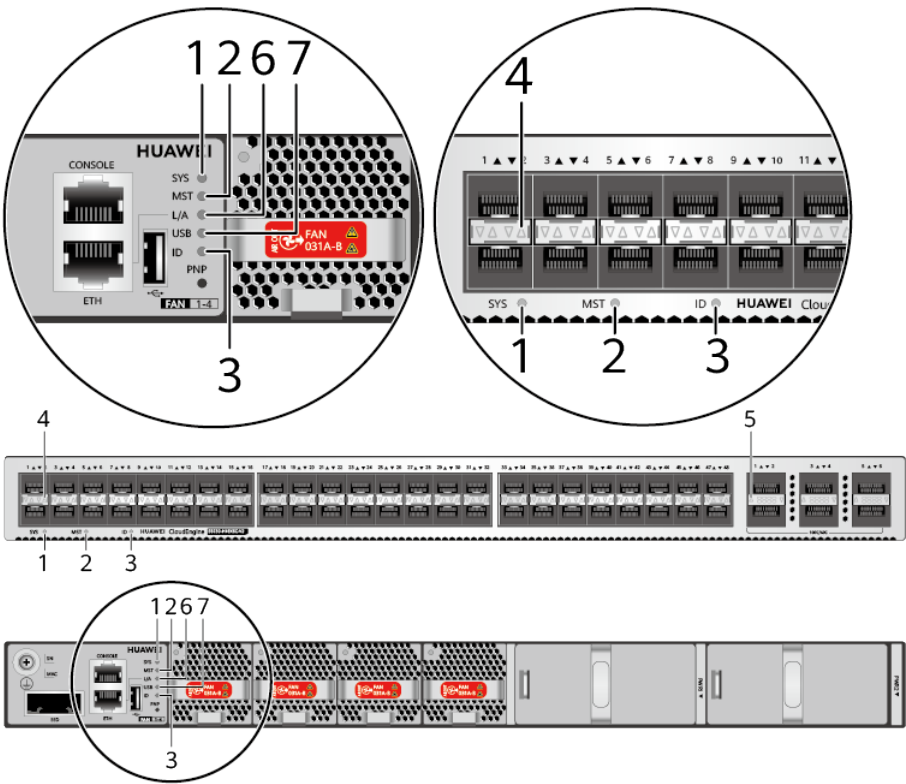


Table 4-41 Description of indicators on the switch

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).

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.
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.

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

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 command.	-	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 4-43 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.

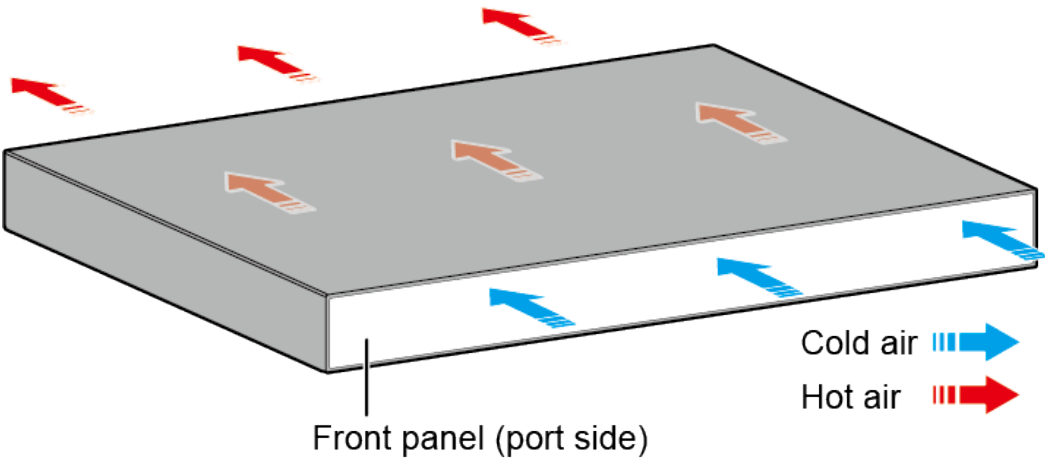
Display Mode	Color	Status	Description
	Green	Blinking	The port is sending or receiving data.
Speed mode NOTE In V600R023C00 and later versions, the service port indicators can be set to the speed mode through the set device led mode Speed command.	-	Off	The port is not connected or has been shut down.
	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.

Technical Specifications

Table 4-44 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

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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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

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: 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

Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.4.9 S6730-H48Y6C-V2

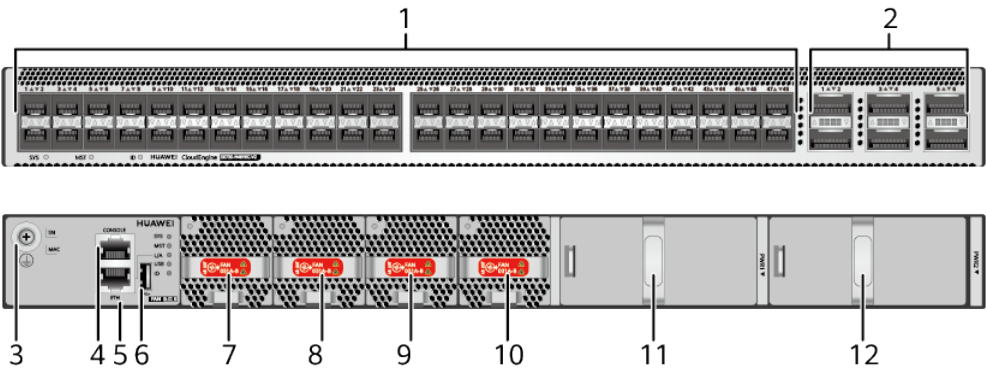
Overview

Table 4-45 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 4-16 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.
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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: 5.1 PAC600S12-CB (600 W AC&240 V DC Power Module) 5.3 PAC600S12-EB (600 W AC&240 V DC Power Module) 5.2 PAC600S12-DB (600 W AC&240 V DC Power Module) 5.5 PDC1000S12-DB (1000 W DC Power Module)	12	Power module slot 2 NOTE Applicable power modules: 5.1 PAC600S12-CB (600 W AC&240 V DC Power Module) 5.3 PAC600S12-EB (600 W AC&240 V DC Power Module) 5.2 PAC600S12-DB (600 W AC&240 V DC Power Module) 5.5 PDC1000S12-DB (1000 W DC Power Module)

Ports

Table 4-46 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

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	By default, QSFP28 optical ports are 100GE ports.	• 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

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

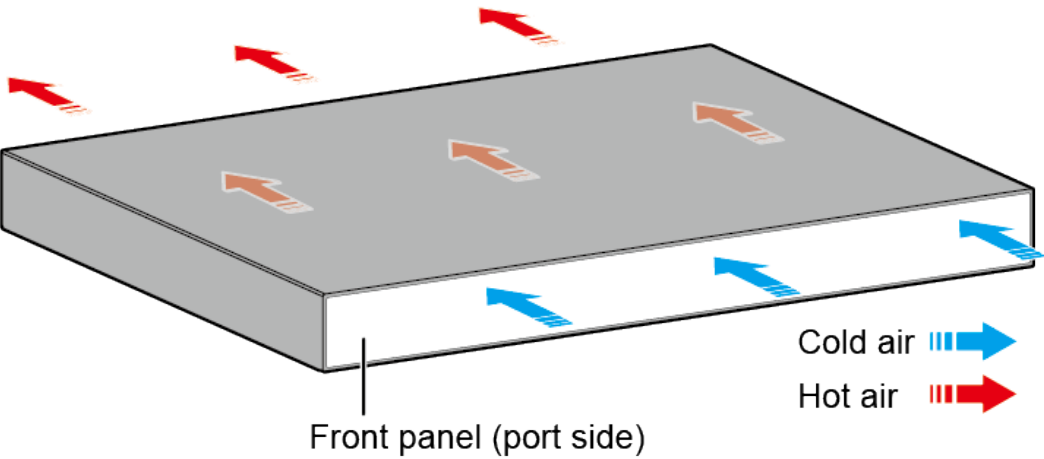
The S6730-H48Y6C-V2 has the same types of indicators as the S6730-H48X6C-V2. For details, see the S6730-H48X6C-V2.

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.

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 4-47 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 (15.5 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

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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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)

Item	Specification
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: 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

Item	Specification
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.10 S6730-H48Y6C-TV2

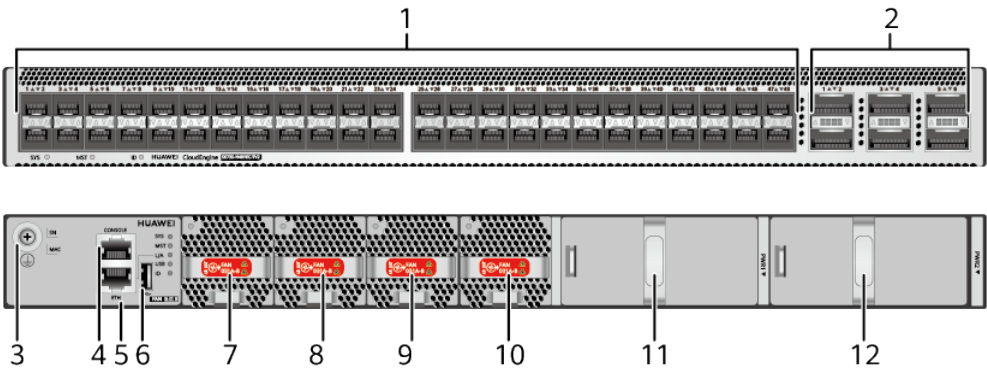
Overview

Table 4-48 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 4-17 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.
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: • 5.1 PAC600S12-CB (600 W AC&240 V DC Power Module) • 5.3 PAC600S12-EB (600 W AC&240 V DC Power Module) • 5.2 PAC600S12-DB (600 W AC&240 V DC Power Module) • 5.5 PDC1000S12-DB (1000 W DC Power Module)	12	Power module slot 2 NOTE Applicable power modules: • 5.1 PAC600S12-CB (600 W AC&240 V DC Power Module) • 5.3 PAC600S12-EB (600 W AC&240 V DC Power Module) • 5.2 PAC600S12-DB (600 W AC&240 V DC Power Module) • 5.5 PDC1000S12-DB (1000 W DC Power Module)

Ports

Table 4-49 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

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	By default, QSFP28 optical ports are 100GE ports.	• 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

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

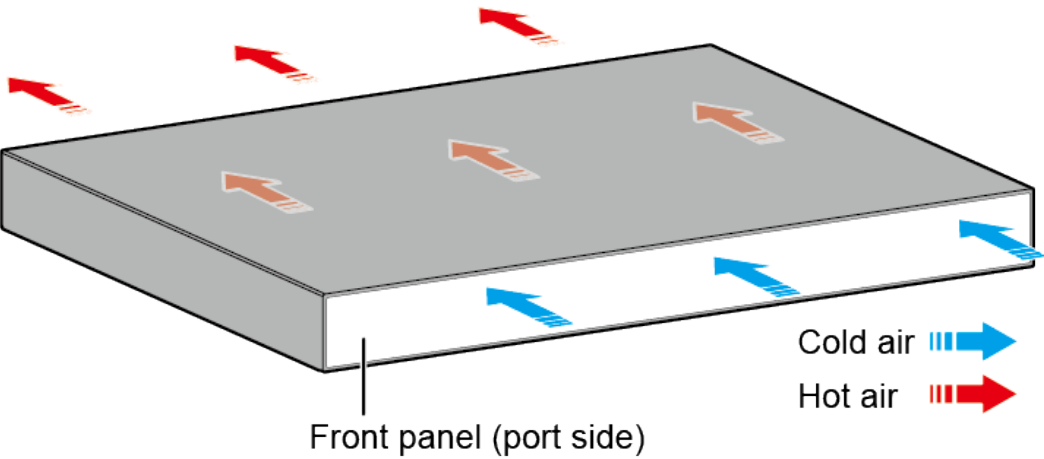
The S6730-H48Y6C-TV2 has the same types of indicators as the S6730-H48X6C-TV2. For details, see the S6730-H48X6C-TV2.

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.

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 4-50 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 (15.5 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

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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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)

Item	Specification
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: 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

Item	Specification
Airflow direction	Air intake from front, air exhaustion from rear (front-to-rear)
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

4.4.11 S6730-H48X6CZ-V2 (02354VCP)

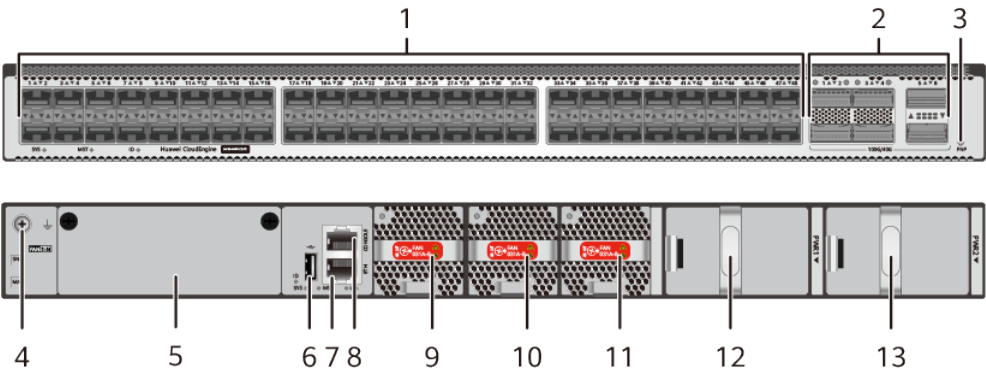
Overview

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
First supported version	V600R022C00

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 and QSFP28 ports on the switch work as 40GE ports, you can run the port mode 100GE interface command to switch the ports to 100GE ports.
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	One card slot NOTE The card slot is reserved and cannot be used currently.	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: 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))

1 3	Power module slot 2 NOTE Applicable power modules: 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))	-	-
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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+

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 and QSFP28 ports on the switch work as 40GE ports, you can run the port mode 100GE interface command to switch the ports to 100GE ports. In V600R023C10 and later versions, the port can 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)

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

Indicators and Buttons

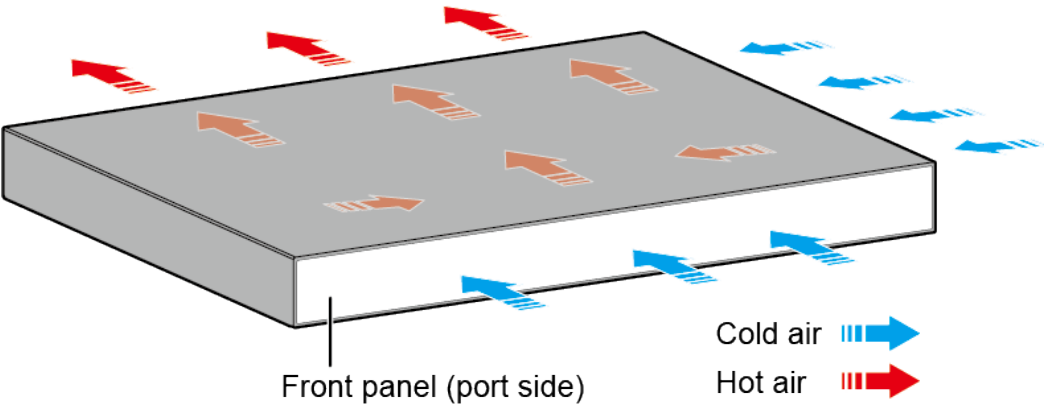
The S6730-H48X6CZ-V2 has the same types of indicators as the S6730-H28X6CZ-V2. For details, see the S6730-H28X6CZ-V2.

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.)

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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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.)

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]	-

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)

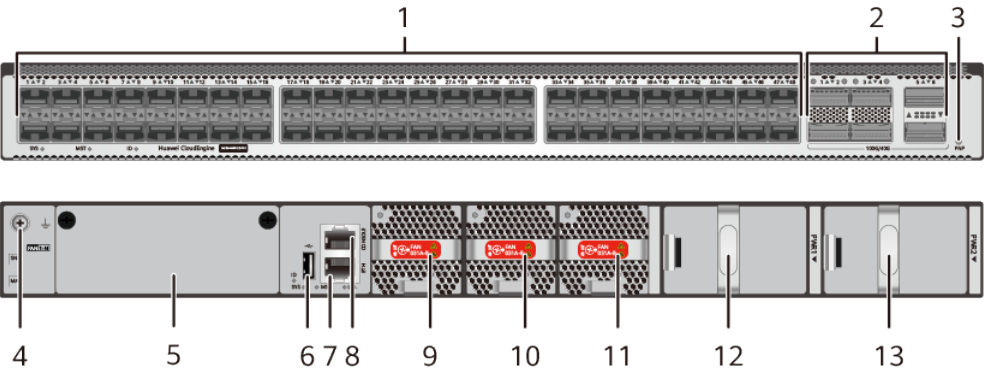
Overview

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

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 and QSFP28 ports on the switch work as 40GE ports, you can run the port mode 100GE interface command to switch the ports to 100GE ports.
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	One card slot NOTE The card slot is reserved and cannot be used currently.	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))

1 1	Fan module slot 3 NOTE Applicable fan module: 6.1 FAN-031A-B (Fan box(B,FAN panel side exhaust))	1 2	Power module slot 1 NOTE Applicable power modules: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))
1 3	Power module slot 2 NOTE Applicable power modules: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))	-	-

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+

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 and QSFP28 ports on the switch work as 40GE ports, you can run the port mode 100GE interface command to switch the ports to 100GE ports. In V600R023C10 and later versions, the port can 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)

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

Indicators and Buttons

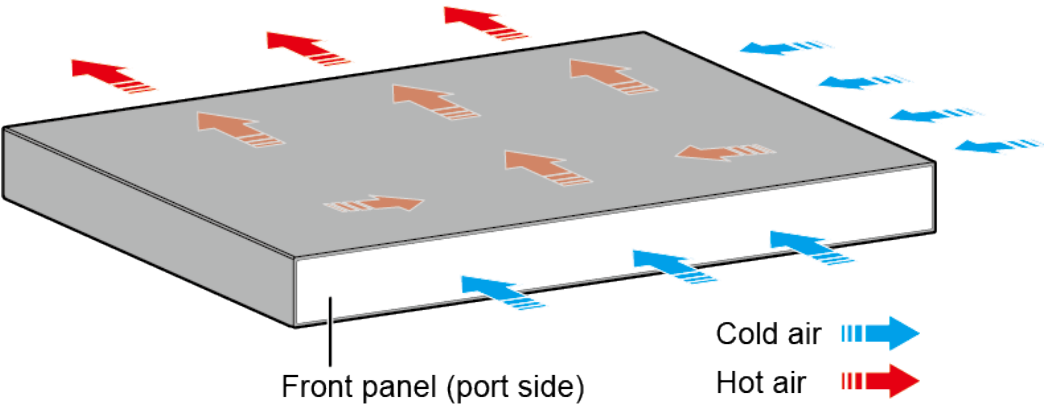
The S6730-H48X6CZ-TV2 has the same types of indicators as the S6730-H28X6CZ-TV2. For details, see the S6730-H28X6CZ-TV2.

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.)

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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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.)

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]	-

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)

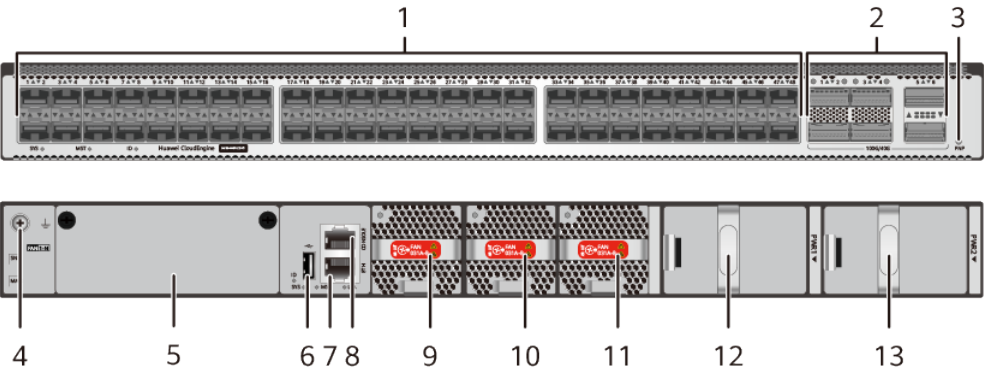
Overview

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

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 are 40GE ports. A 100GE RTU License can be used to upgrade the ports to 100GE ports. After the license is activated, you can run the port mode 100GE interface command to switch the ports to 100GE ports.
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	One card slot NOTE The card slot is reserved and cannot be used currently.	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))

1 1	Fan module slot 3 NOTE Applicable fan module: 6.1 FAN-031A-B (Fan box(B,FAN panel side exhaust))	1 2	Power module slot 1 NOTE Applicable power modules: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))
1 3	Power module slot 2 NOTE Applicable power modules: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))	-	-

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+

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 are 40GE ports. A License can be used to upgrade the ports to 100GE ports. In V600R023C10 and later versions, the port can 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)

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

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

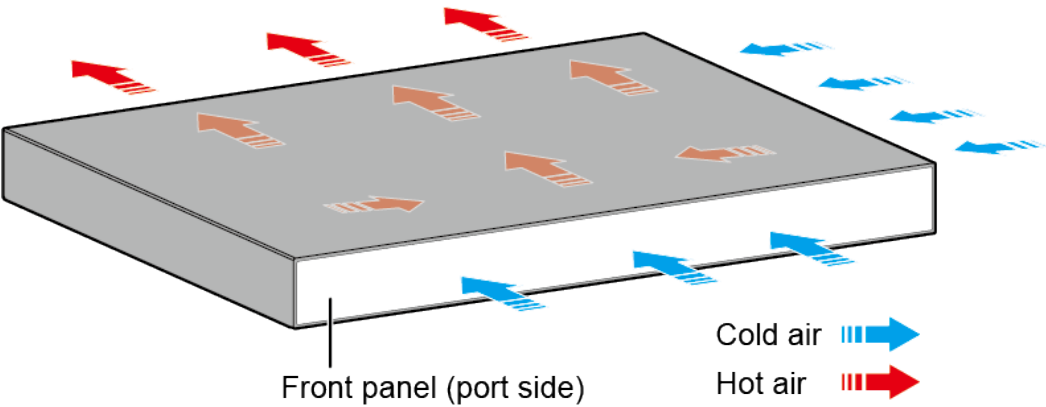
The S6730-H48X6CZ-V2 has the same types of indicators as the S6730-H28X6CZ-V2. For details, see the S6730-H28X6CZ-V2.

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.



 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

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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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.)

Item	Specification
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]	-
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

Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.4.14 S6730-H48X6CZ-TV2 (02354VUE)

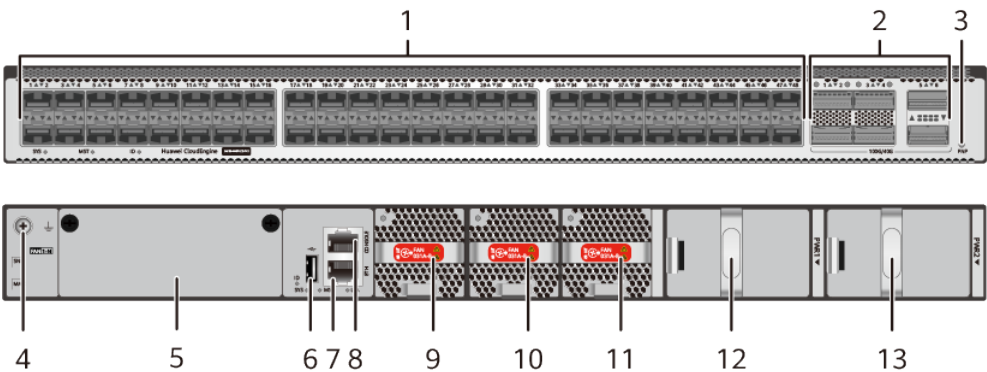
Overview

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

Components

Figure 4-21 S6730-H48X6CZ-TV2 appearance



1	Forty-eight 10GE SFP+ optical ports	2	Six 40GE/100GE QSFP28 optical ports NOTE By default, QSFP28 optical ports are 40GE ports. A 100GE RTU License can be used to upgrade the ports to 100GE ports. After the license is activated, you can run the port mode 100GE interface command to switch the ports to 100GE ports.
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	One card slot NOTE The card slot is reserved and cannot be used currently.	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: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))

1 3	Power module slot 2 NOTE Applicable power modules: 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))	-	-
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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+

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 are 40GE ports. A License can be used to upgrade the ports to 100GE ports. In V600R023C10 and later versions, the port can 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)

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

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

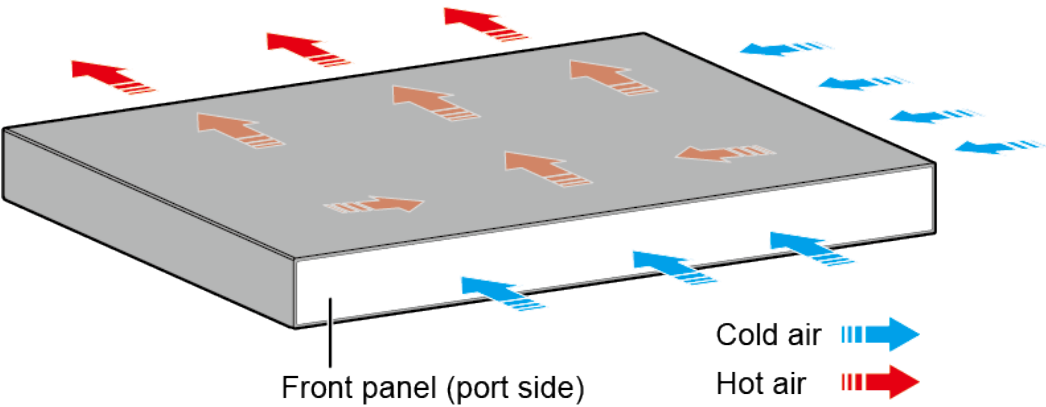
The S6730-H48X6CZ-TV2 has the same types of indicators as the S6730-H28X6CZ-TV2. For details, see the S6730-H28X6CZ-TV2.

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.



 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

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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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.)

Item	Specification
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]	-
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

Item	Specification
Certification	EMC certification Safety certification Manufacturing certification

4.5 S6750-H

4.5.1 S6750-H36C (02355UEK)

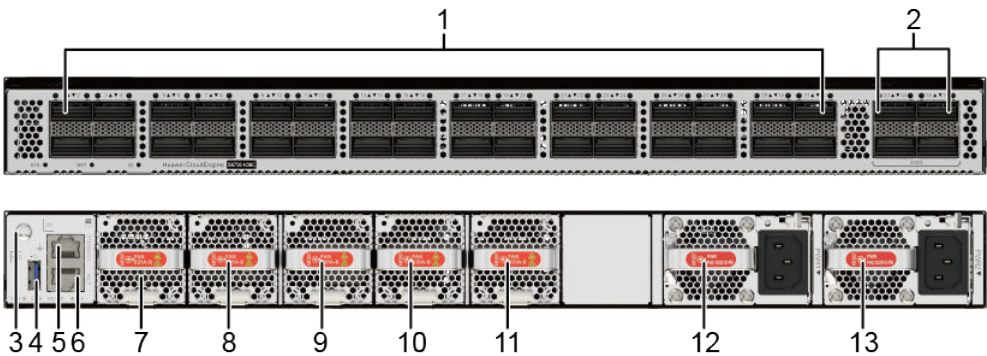
Overview

Table 4-63 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 4-22 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))
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: 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) 5.7 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: 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))	-	-

Ports

Table 4-64 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)

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

Indicators and Buttons

Figure 4-23 Indicators on the switch

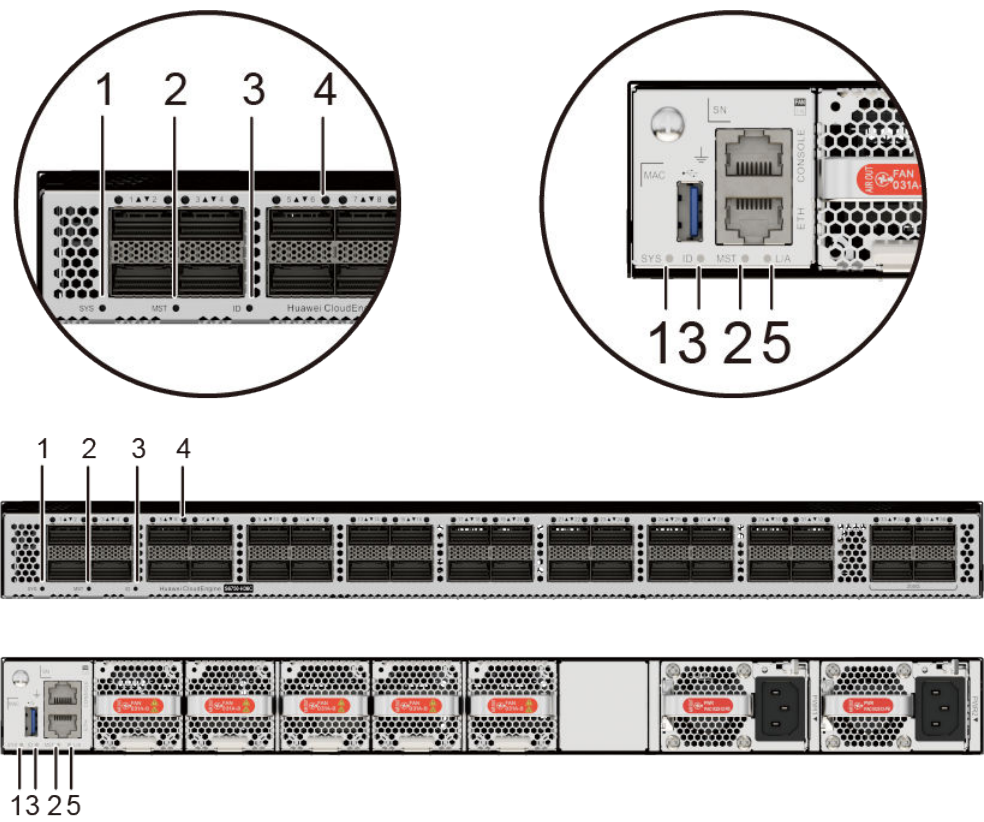


Table 4-65 Description of indicators on the switch

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).

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 4-66 .	
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 4-66 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.
Speed mode NOTE The service port indicators can be set to the speed mode through the set device led mode Speed command.	-	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.

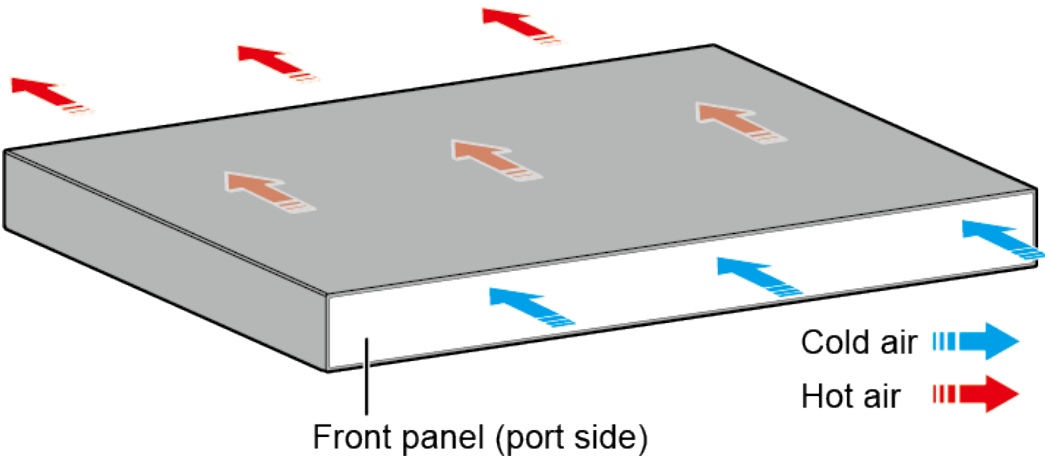
Display Mode	Color	Status	Description
	Green	Blinking	40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s. 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s.

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.

Technical Specifications

Table 4-67 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)

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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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

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	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

4.5.2 S6750-H36C (02355UEK-001)

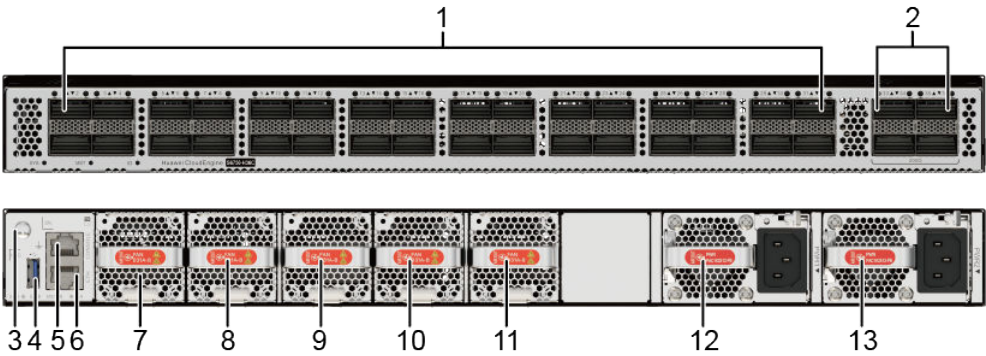
Overview

Table 4-68 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 4-24 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))

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: • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 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: • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))	-	-

Ports

Table 4-69 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)

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

Indicators and Buttons

Figure 4-25 Indicators on the switch

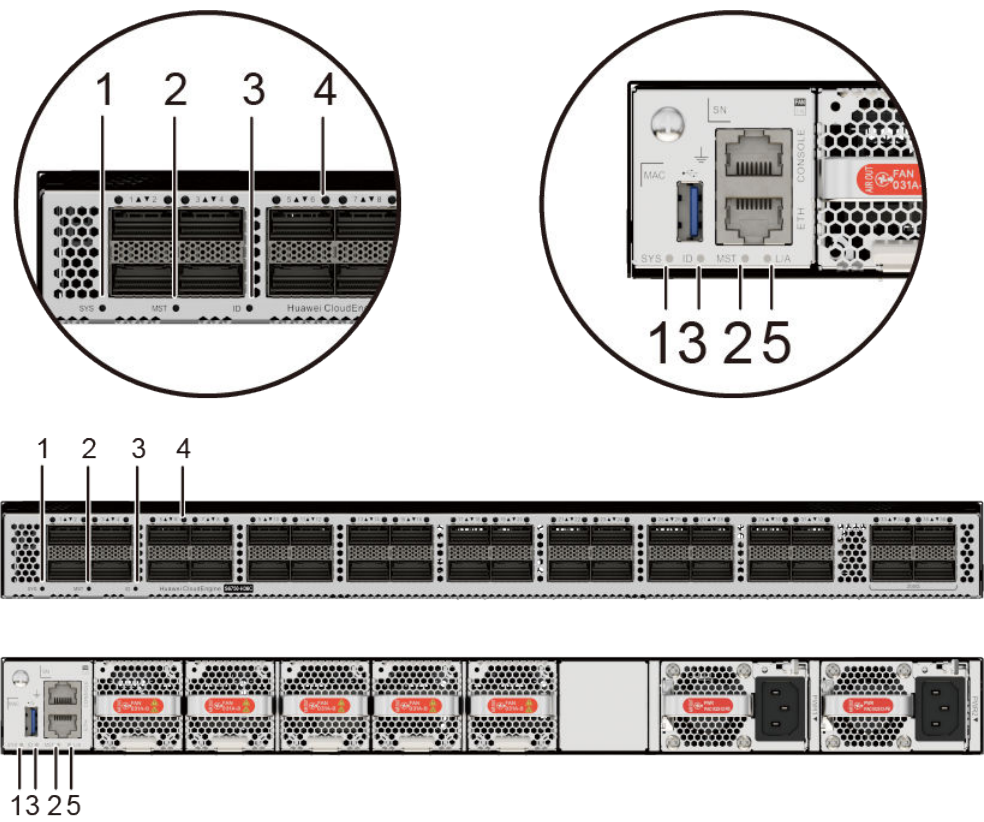


Table 4-70 Description of indicators on the switch

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).

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 4-71 .	
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 4-71 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 command.	-	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.

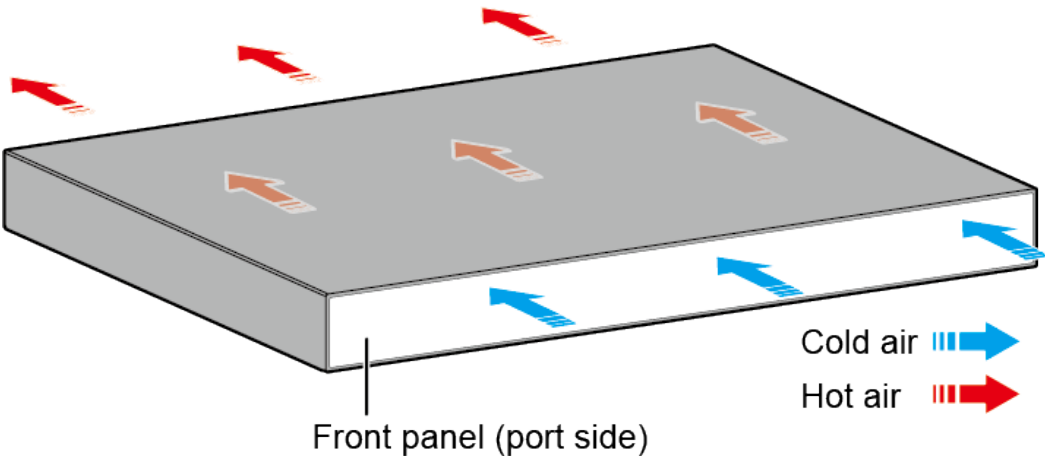
Display Mode	Color	Status	Description
	Green	Blinking	40GE/100GE QSFP28 port: The port is operating at 100 Gbit/s. 1GE/10GE/25GE SFP28 port: The port is operating at 25 Gbit/s.

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.

Technical Specifications

Table 4-72 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)

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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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

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	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

4.5.3 S6750-H48Y8C (02355UEL)

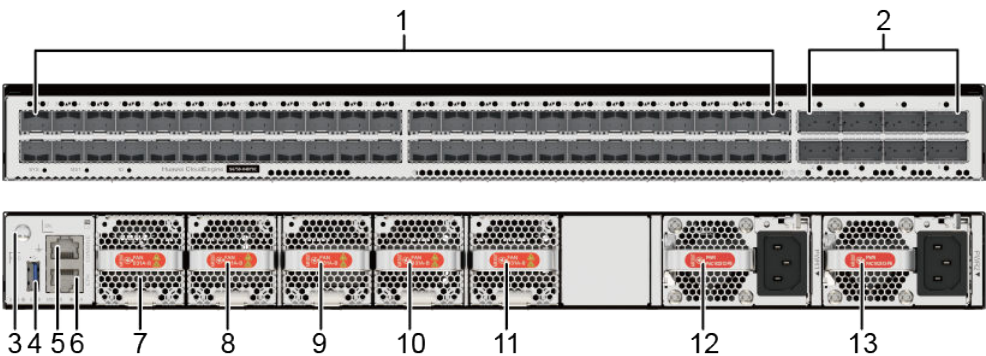
Overview

Table 4-73 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 4-26 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: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 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: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))	-	-

Ports

Table 4-74 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 • 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 (only for zero-configuration stacking)

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 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
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

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

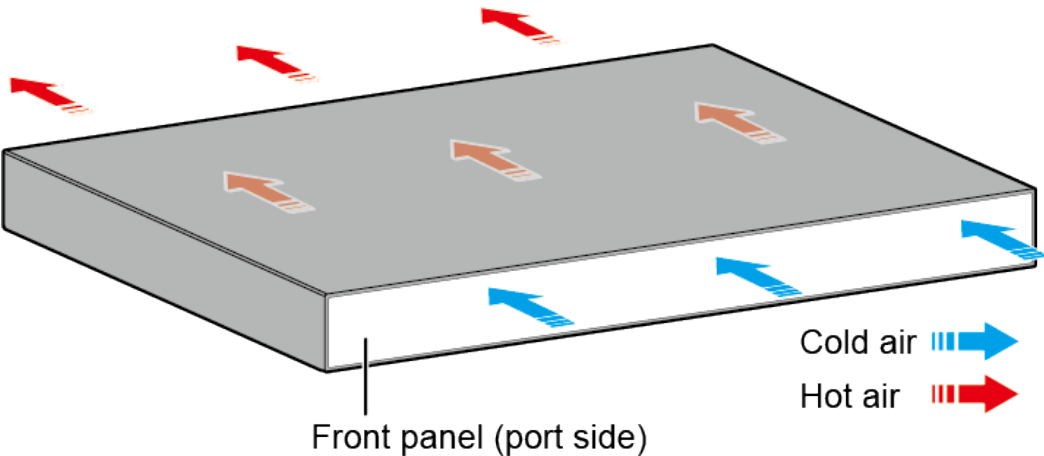
The S6750-H48Y8C has the same types of indicators as the S6750-H36C. For details, see the S6750-H36C.

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.

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 4-75 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
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard and dual power modules: 760.90

Item	Specification
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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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.)

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]	-

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

4.5.4 S6750-H48Y8C (02355UEL-001)

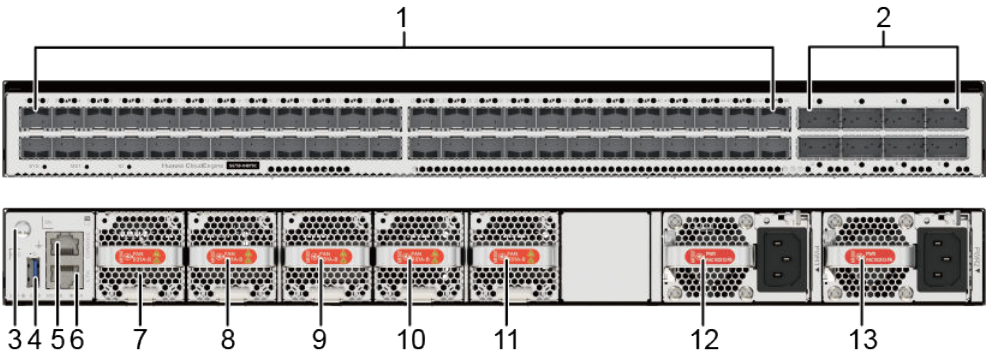
Overview

Table 4-76 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

Components

Figure 4-27 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))

1 1	Fan module slot 5 NOTE Applicable fan module: 6.1 FAN-031A-B (Fan box(B,FAN panel side exhaust))	1 2	Power module slot 1 NOTE Applicable power modules: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))
1 3	Power module slot 2 NOTE Applicable power modules: • 5.4 PAC600S12-PB (600W AC &240 V DC Power Module(66 mm Width Case, Back to Front, Power panel side exhaust)) • 5.6 PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 5.7 PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to Front, Power panel side exhaust))	-	-

Ports

Table 4-77 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 • 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 (only for zero-configuration stacking)

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 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
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

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

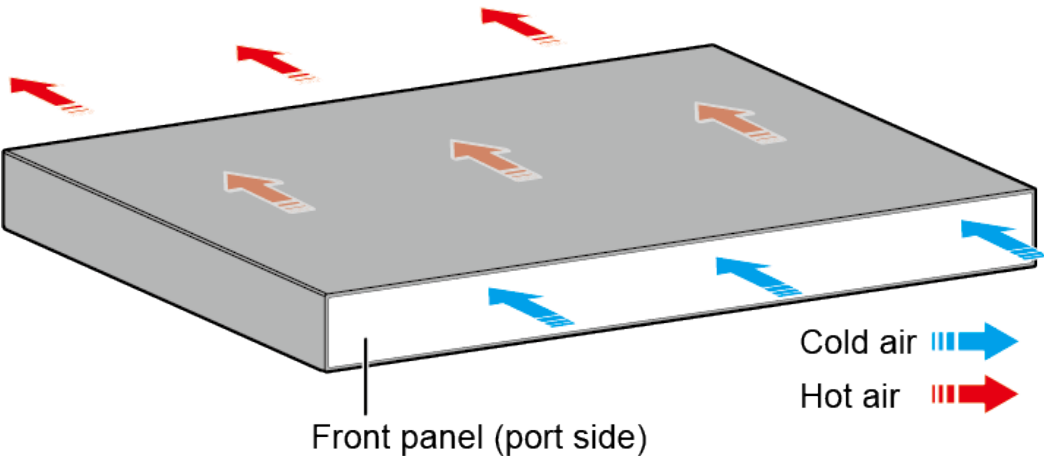
The S6750-H48Y8C has the same types of indicators as the S6750-H36C. For details, see the S6750-H36C.

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.

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 4-78 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
Typical heat dissipation [BTU/hour]	30% traffic under the ATIS standard and dual power modules: 760.90

Item	Specification
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
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
Packet forwarding rate	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
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.)

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]	-

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