S6750-H36C (02355UEK)

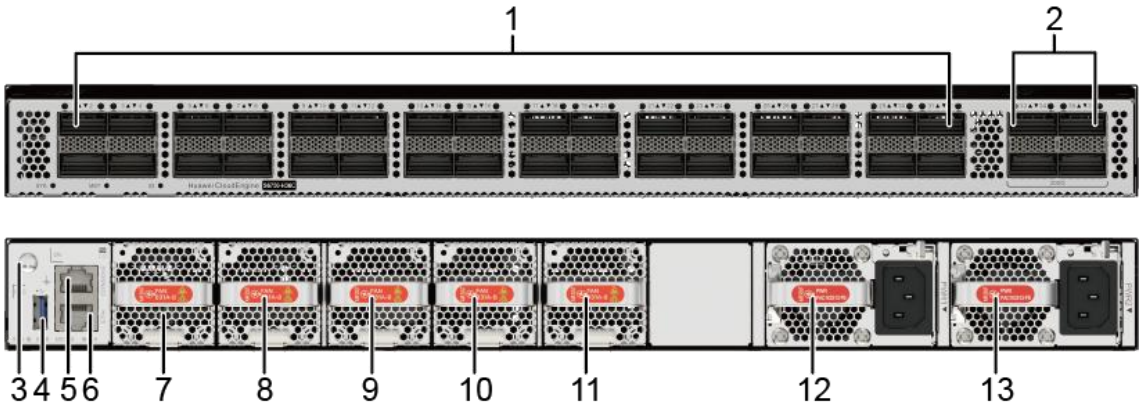
Overview

Table 4-89 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 4-31 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 currently.
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: FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))	8	Fan module slot 2 **NOTE:** Applicable fan module: FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))
9	Fan module slot 3 **NOTE:** Applicable fan module: FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))	10	Fan module slot 4 **NOTE:** Applicable fan module: FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))
11	Fan module slot 5 **NOTE:** Applicable fan module: FAN-031A-B (Fan Box (B, Fan Panel Side Exhaust))	12	Power module slot 1 **NOTE:** Applicable power modules: • PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • 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: • PAC1K2S12-PB (1200W AC&240V DC Power Module (66 mm Width Case, Back to Front,Power panel side exhaust)) • PDC1K2S12-CE (1200W DC Power Module (66 mm Width case, Back to	-	-

	Front, Power panel side exhaust))		

Ports

Table 4-90 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	• 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
		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, 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	USB flash drive

Port	Connector Type	Description	Available Components
		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.	

Indicators and Buttons

Figure 4-32 Indicators on the switch

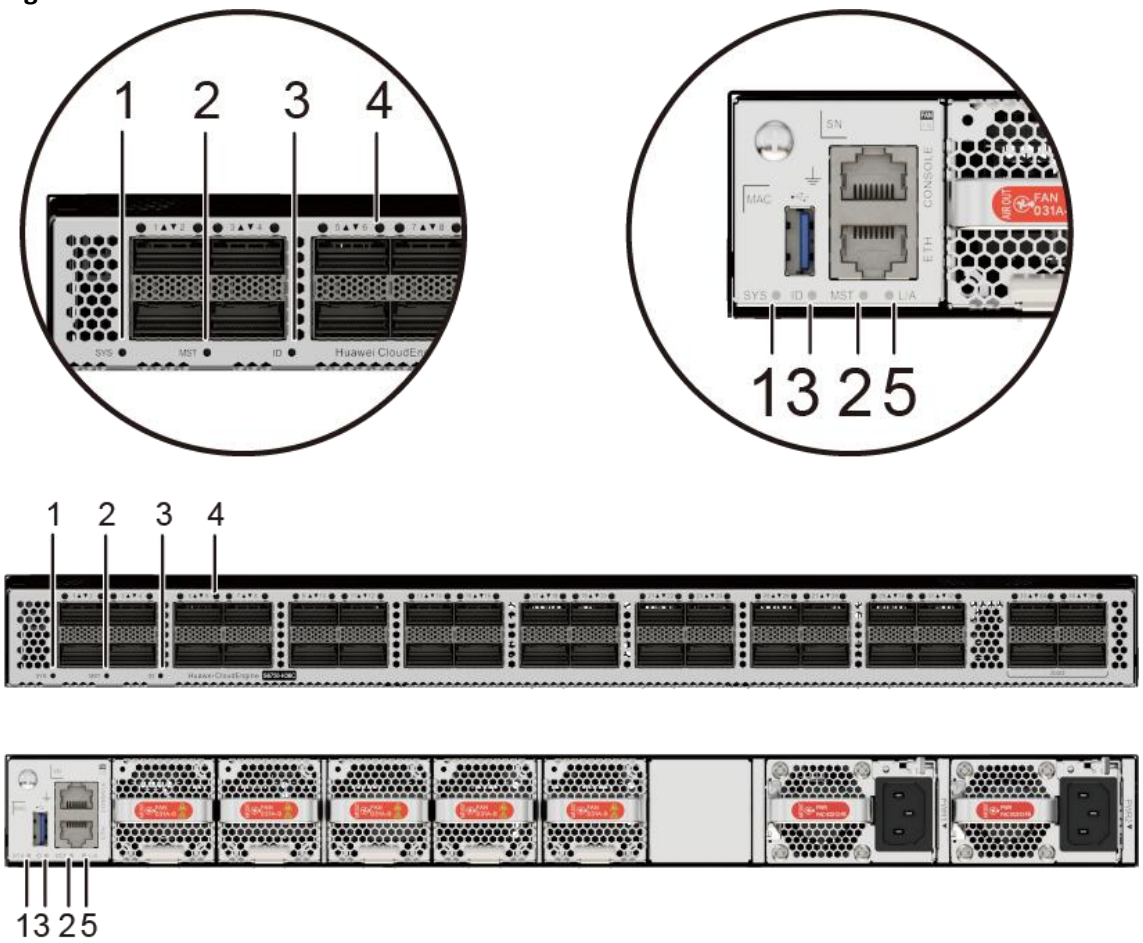


Table 4-91 Description of indicators on the switch

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.

No.	Indicator	Name	Color	Status	Description
			Red	Steady on	The system does not work normally after registration, or alarms such as fan module, power module, optical module, or temperature alarms are generated.
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 4-92.
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 4-92 Description of service port indicators in different modes (one indicator for each port)

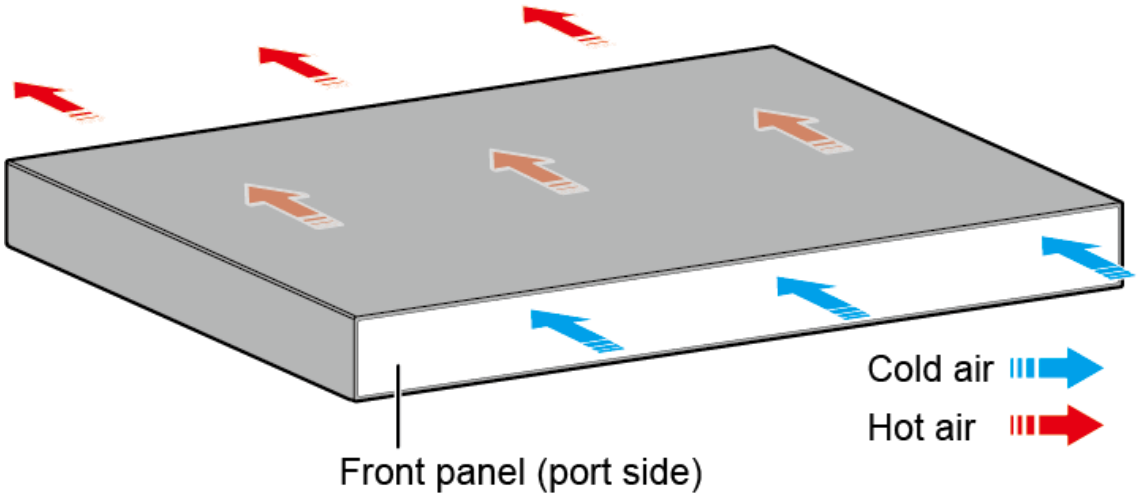
Display Mode	Color	Status	Description
Default mode	-	Off	The port is not connected or has been shut down.
	Green	Steady on	A link has been established on the port.
	Green	Blinking	The port is sending or receiving data.
Speed mode **NOTE:** The service port indicators can be set to the speed mode through the **set device led mode Speed** diagnostic command. The default mode is automatically restored after 45s.	-	Off	The port is not connected or has been shut down.
	Green	Steady on	• 40GE/100GE QSFP28 port: The port is operating at 40 Gbit/s. • 1GE/10GE/25GE SFP28 port: The port is operating at 1 Gbit/s or 10 Gbit/s.
	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 4-93 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)

Item	Specification
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
Availability	> 0.99999
Noise at normal temperature (acoustic power) [dB(A)]	57.7 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	57.2 dB(A)
Number of card slots	0
Number of power slots	2
Number of fans modules	5
Redundant power supply	1+1

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

Item	Specification
	• 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

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