

# S5700 Series Switches Hardware Description (V200)

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## S5736-S24S4XC

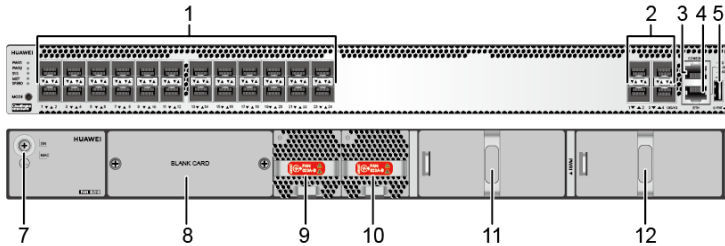
### Overview

Table 4-2010 Basic information about the S5736-S24S4XC

Item	Details
Description	S5736-S24S4XC (24*GE SFP ports, 4*10GE SFP+ ports, 1*expansion slot, without power module)
Part Number	98011038
Model	S5736-S24S4XC
First supported version	V200R021C01

### Components

Figure 4-693 S5736-S24S4XC appearance



1	Twenty-four 100/1000BASE-X ports	2	Four 10GE SFP+ optical ports
3	One console port	4	One ETH management port
5	One USB port	6	One PNP button  <b>NOTICE:</b>  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.
7	Ground screw  <b>NOTE:</b> It is used with a <b>ground cable</b> .	8	Rear card slot  <b>NOTE:</b> Applicable card: • <b>S7X08000 (02312URW)</b> (applicable in V200R020C10 and later versions) • <b>S7X08000 (02312URW-002)</b> (applicable in V200R021C10SPC600 and later versions) - <b>ES5F21002000</b>

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CloudEngine S6700 Series Switches Hardware Description (V600)

### Digital Signature File

Digital Signature Authentication Mode

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S5735-S-I					<ul style="list-style-type: none"> <li>S7Q02001 (02313UBW-002) (applicable in V200R021C10SPC600 and later versions)</li> </ul>
S5735S-S					
S5735S-H					
S5736-S					
S5736-S24UM4XC (98011020)					
<b>S5736-S24S4XC</b>	9	Fan module slot 1	10	Fan module slot 2	
S5736-S48S4XC		<p><b>NOTE:</b></p> <p>Applicable fan module: <b>FAN-023A-B (Fan box(B,FAN panel side exhaust))</b></p>		<p><b>NOTE:</b></p> <p>Applicable fan module: <b>FAN-023A-B (Fan box(B,FAN panel side exhaust))</b></p>	
S5736-S48S4X-A					
S5736-S48S4X-D					
Power Modules					
Battery Modules					
Fan Modules					
Cards					
Cables					
Pluggable Modules for Interfaces					
Accessories					
	11	Power module slot 1	12	Power module slot 2	
		<p><b>NOTE:</b></p> <p>Applicable power module:</p> <ul style="list-style-type: none"> <li>PAC600S12-CB (600 W AC&amp;240 V DC Power Module)</li> <li>PAC600S12-EB (600 W AC&amp;240 V DC Power Module)</li> <li>PAC600S12-DB (600 W AC&amp;240 V DC Power Module)</li> <li>PDC1000S12-DB (1000 W DC Power Module)</li> <li>PAC150S12-R (150 W AC Power Module)</li> <li>PDC180S12-CR (180 W DC Power Module)</li> </ul>		<p><b>NOTE:</b></p> <p>Applicable power module:</p> <ul style="list-style-type: none"> <li>PAC600S12-CB (600 W AC&amp;240 V DC Power Module)</li> <li>PAC600S12-EB (600 W AC&amp;240 V DC Power Module)</li> <li>PAC600S12-DB (600 W AC&amp;240 V DC Power Module)</li> <li>PDC1000S12-DB (1000 W DC Power Module)</li> <li>PAC150S12-R (150 W AC Power Module)</li> <li>PDC180S12-CR (180 W DC Power Module)</li> </ul>	

Ports

Table 4-2011 Ports on the S5736-S24S4XC

Port	Connector Type	Description	Available Components
100/1000BASE-X port	SFP	A 100/1000BASE-X port can send and receive data at 100 Mbit/s or 1000 Mbit/s.	<ul style="list-style-type: none"> <li>FE SFP/eSFP optical modules</li> <li>GE eSFP optical modules</li> <li>GE SFP copper module</li> </ul>
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.	<ul style="list-style-type: none"> <li>GE eSFP optical modules</li> <li>GE-CWDM eSFP optical modules</li> <li>GE-DWDM eSFP optical modules</li> <li>GE SFP copper module</li> <li>10GE SFP+ optical modules (OSXD22N00 not supported)</li> <li>10GE-CWDM SFP+ optical modules</li> <li>10GE-DWDM SFP+ optical modules</li> <li>1 m, 3 m, 5 m, and 10 m SFP+ high-speed copper cables</li> <li>3 m and 10 m SFP+ AOC cables</li> <li>0.5 m and 1.5 m SFP+ dedicated stack cables</li> </ul>

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			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. You can choose to download the software package through the ETH management port in the BootLoad menu. File transfer through the ETH management port is faster than transfer through the console port.	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. Switches support a maximum of 128 GB USB flash drives.	USB flash drive

Indicators and Buttons

Figure 4-694 Indicators on the S5736-S24S4XC

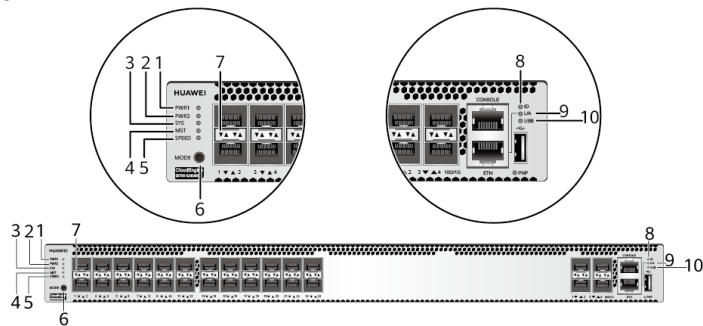


Table 4-2012 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR1	Power module indicator	-	Off	No power module is available in power module slot 1, or the switch has only one power

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					does not work normally.
			Green	Steady on	A power module is installed in power module slot 1 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 1: <ul style="list-style-type: none"> <li>A power module is available in this slot but it is not connected to a power source.</li> <li>The power module in this slot has failed.</li> </ul>
2	PWR2	Power module indicator	-	Off	No power module is available in power module slot 2, or the switch has only one power module but the power module does not work normally.
			Green	Steady on	A power module is installed in power module slot 2 and is working normally.
			Yellow	Steady on	The switch has two power modules installed. Any of the following situations occurs in power module slot 2: <ul style="list-style-type: none"> <li>A power module is available in this slot but it is not connected to a power source.</li> <li>The power module in this slot has failed.</li> </ul>
3	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	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
4	MST	Stack indicator	-	Off	<ul style="list-style-type: none"> <li>If you are not changing the indicator mode (default): The switch is a standby or slave switch in a stack or the stacking function is not enabled on the switch.</li> <li>If you are changing the indicator mode: The stack mode is not selected.</li> </ul>
			Green	Steady on	The stack mode is selected. The switch is a standby or slave switch in a stack, and the service port indicators show the stack ID of the switch.
			Green	Blinking	<ul style="list-style-type: none"> <li>If you are not changing the indicator mode (default): The switch is the master switch in a stack or a standalone switch with the stacking function enabled.</li> <li>If you are changing the indicator mode: The stack</li> </ul>

					stack or a standalone switch, and the service port indicators show the stack ID of the master switch. After 45 seconds, the service port indicators automatically restore to the status mode.
5	SPEED	Speed indicator	-	Off	The speed mode is not selected.
			Green	Steady on	The speed mode is selected, and service port indicators show the speed of each port.
6	MODE	Mode switch button	-	-	<ul style="list-style-type: none"> <li>When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch.</li> <li>When you press this button a second time, the service port indicators change to the speed mode and show the speed of each service port.</li> <li>When you press this button a third time, the service port indicators restore to the default mode and show the connection status and link activity of each service port.</li> </ul> <p>If you do not press the MODE button within 45 seconds, the service port indicators restore to the default mode. In this case, the SPEED indicator is off.</p> <p><b>NOTE:</b></p> <p>Hold down the mode switch button for 6s and release it to start the web initial login mode. Either of the following situations will occur:</p> <ul style="list-style-type: none"> <li>If the switch has no configuration file, the system attempts to enter the web initial login mode. In this mode, the status of mode indicators is as follows: <ul style="list-style-type: none"> <li>If the system enters the web initial login mode successfully, all mode indicators turn green and stay on for a maximum of 10 minutes.</li> <li>If the system fails to enter the initial login mode, all mode indicators fast blink for 10 seconds and then restore the default status.</li> </ul> </li> <li>If the switch has a configuration file, the system cannot enter the web initial login mode. In this case, all mode indicators fast blink for 10s, and then return to the default states.</li> </ul>

		port indicator	modes. For details, see <a href="#">Table 4-2013</a> .		
8	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.
9	L/A	ETH port indicator	-	Off	The ETH port is not connected.
			Green	Steady on	The ETH port is connected.
			Green	Blinking	The ETH port is sending or receiving data.
10	USB	USB-based deployment indicator	-	Off	<ul style="list-style-type: none"> <li>No USB flash drive is connected to the switch.</li> <li>The USB port is damaged.</li> <li>The indicator is damaged.</li> <li>The USB flash drive does not have any configuration file and cannot be used for deployment.</li> <li>The switch has been upgraded using the USB flash drive and is restarting.</li> </ul>
			Green	Steady on	A USB-based deployment has been completed.
			Green	Blinking	The system is reading data from a USB flash drive.
			Yellow	Steady on	The switch has copied all the required files and completed the file check. The USB flash drive can be removed from the switch.
			Red	Blinking	An error has occurred when the system is executing the configuration file or reading data from the USB flash drive.

**Table 4-2013** Description of service port indicators in different modes

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.
	Yellow	Blinking	The port is sending or receiving data.
MST stack mode	-	Off	Port indicators do not show the stack ID of the switch.
	Green and yellow	Steady on	The switch is not the master switch in a stack. <ul style="list-style-type: none"> <li>If the indicator of a port is steady on, the number of this port is the stack ID of the switch.</li> <li>If the indicators of ports 1 to 9 are steady on, the stack ID of the switch is 0.</li> </ul>
	Green and yellow	Blinking	The switch is the master switch in a stack. <ul style="list-style-type: none"> <li>If the indicator of a port is blinking, the number of this port is the stack ID of the switch.</li> <li>If the indicators of ports 1 to 9 are</li> </ul>

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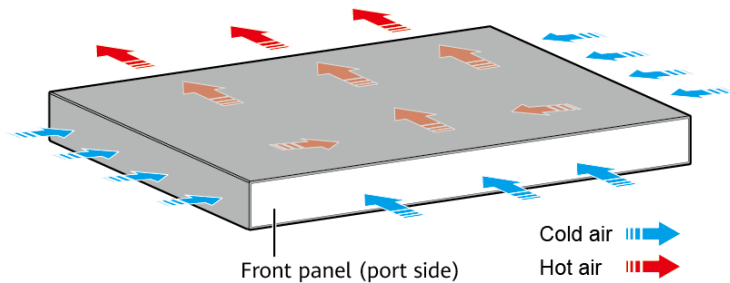
Speed mode	-	Off	The port is not connected or has been shut down.
	Green and yellow	Steady on	100M/1000M port: The port is operating at 100 Mbit/s. 1000M/10GE port: The port is operating at 1000 Mbit/s.
	Green and yellow	Blinking	100M/1000M port: The port is operating at 1000 Mbit/s. 1000M/10GE port: The port is operating at 10 Gbit/s.

### Power Supply System

The switch can use a single power module or double power modules for 1+1 power redundancy. Pluggable AC and DC power modules can be used together in the same switch. However, the power modules with natural heat dissipation and the power modules with fan cannot be used at the same time.

### Heat Dissipation System

The switch uses pluggable fan modules for forced air cooling. Air flows in from the left, 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 4-2014** Technical specifications of the S5736-S24S4XC

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 444.0 mm (1.72 in. x 17.40 in. x 17.48 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	150mm x 710mm x 560mm (5.90 in. x 27.95 in. x 22.05 in.)
Chassis height [U]	1 U
Weight without packaging [kg(lb)]	5.2 kg (11.46 lb)
Weight with packaging [kg(lb)]	8.2 kg (18.08 lb)
Typical power consumption [W]	63 W
Typical heat dissipation [BTU/hour]	214.96 BTU/hour
Maximum power consumption [W]	74 W
Maximum heat dissipation [BTU/hour]	252.5 BTU/hour
Static power consumption [W]	37 W
MTBF [year]	65.79 year
MTTR [hour]	2 hour
Availability	>0.99999

[dB(A)]	
Noise at normal temperature (acoustic pressure) [dB(A)]	37.8 dB(A)
Number of card slots	1
Number of power slots	2
Number of fans modules	2
Redundant power supply	1+1 Pluggable AC and DC power modules can be used together in the same switch, but power modules that use natural heat dissipation and power modules that use air cooling cannot be used together.
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.)
Short-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5906 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	<p>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.).</p> <p>The device can work for a short period of time when the operating temperature is beyond the normal range, but the following conditions must be met:</p> <ul style="list-style-type: none"> <li>The operating temperature can exceed 45°C (113°F) for a maximum of 96 consecutive hours in a year.</li> <li>The total time when the operating temperature exceeds 45°C (113°F) in a year is less than or equal to 360 hours.</li> <li>The number of times the operating temperature exceeds 45°C (113°F) is less than or equal to 15 in one year.</li> </ul> <p>If any of the preceding conditions is not met, the device may be damaged or an unknown error may occur.</p> <p>Devices cannot start when the temperature is lower than 0°C (32°F). The maximum transmission distance of an optical module used for short-term operation cannot exceed 10 km.</p>
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]	<ul style="list-style-type: none"> <li>AC input: 100 V AC to 240 V AC; 50/60 Hz</li> <li>High-voltage DC input: 240 V DC</li> <li>DC input: -48 V DC to -60 V DC</li> </ul>
Input voltage range [V]	<ul style="list-style-type: none"> <li>AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz</li> <li>High-voltage DC input: 190 V DC to 290 V DC</li> <li>DC input: -38.4 V DC to -72 V DC</li> </ul>
Maximum input current [A]	The current specifications depend on the pluggable power modules in use. For details, see the related power module specifications.
Memory	2 GB
Flash memory	1 GB in total. To view the available flash memory size, run the display version command.
Console port	RJ45
Eth Management port	RJ45
USB	



RPS input	Not supported
Service port surge protection [kV]	-
Power supply surge protection [kV]	<ul style="list-style-type: none"> <li>Configured with AC power modules: <math>\pm 6</math> kV in differential mode and <math>\pm 6</math> kV in common mode</li> <li>Configured with DC power modules: <math>\pm 2</math> kV in differential mode and <math>\pm 4</math> kV in common mode</li> </ul>
Types of fans	Pluggable
Heat dissipation mode	Heat dissipation with fan, intelligent fan speed adjustment
Airflow direction	Air intake from left, front and right, air exhaustion from behind
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification

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