

S310-24P4S

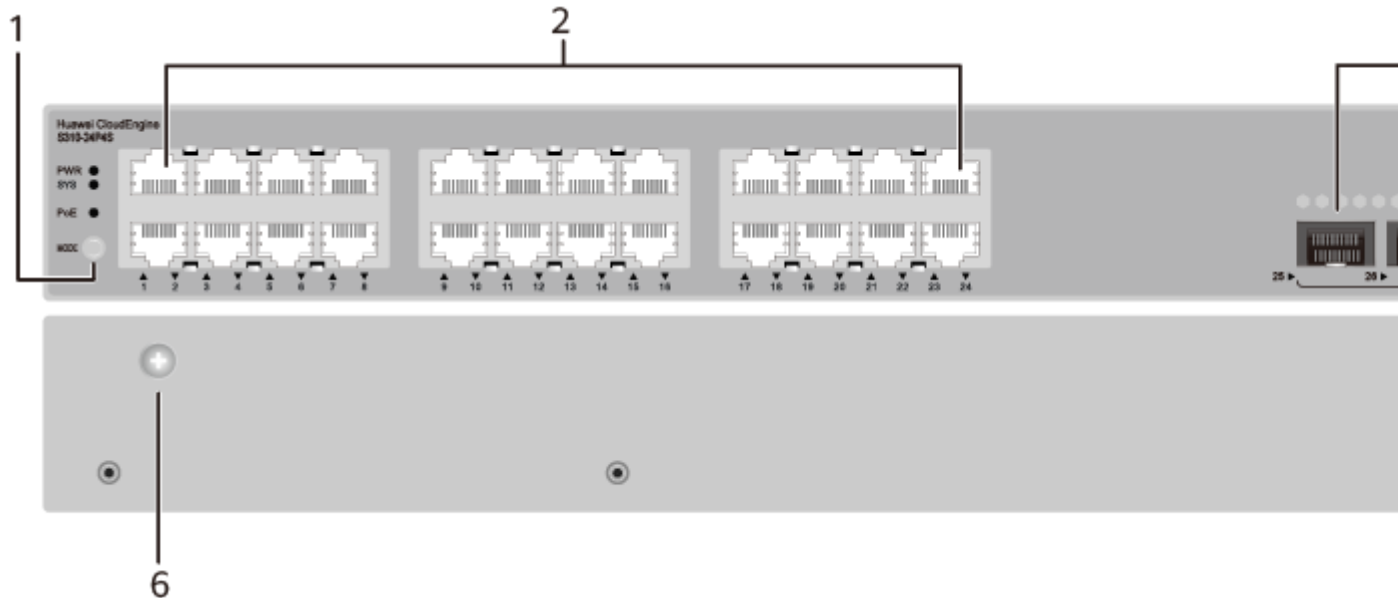
Overview

Table 4-26 Basic information about the S310-24P4S

Item	Details
Description	S310-24P4S (24*10/100/1000BASE-T ports, 4*GE SFP ports, PoE+, AC power)
Part Number	98012201
Model	S310-24P4S
First supported version	V600R022C10

Components

Figure 4-9 S310-24P4S appearance



1	One MODE button	2	Twenty-four 10/100/1000BASE-T PoE+ ports
3	Four 1000BASE-X ports	4	One console port

5	<p>One PNP button</p> <p>NOTICE:</p> <p>To restore the factory settings and reset the switch, hold down the button for at least 6 seconds.</p> <p>To reset the switch, press the button.</p> <p>Resetting the switch will cause service interruption. Exercise caution when you press the PNP button.</p>	6	<p>Ground screw</p> <p>NOTE:</p> <p>It is used with a ground cable.</p>
7	<p>Jack for AC power cable locking strap</p> <p>NOTE:</p> <p>The AC power cable locking strap is not delivered with the switch.</p>	8	<p>AC socket</p> <p>NOTE:</p> <p>It is used with an AC power cable.</p>

Ports

Table 4-27 Ports on the S310-24P4S

Port	Connector Type	Description	Available Components
10/100/1000BASE-T PoE+ port	RJ45	<p>A 10/100/1000BASE-T PoE+ Ethernet electrical port sends and receives service data at 10/100/1000 Mbit/s.</p> <p>The port supports the PoE function.</p>	<p>Ethernet cable</p>
1000BASE-X port	SFP	<p>A 1000BASE-X port can send and receive data at 1000 Mbit/s.</p>	<ul style="list-style-type: none"> • GE eSFP optical modules • GE-CWDM eSFP optical modules • GE-DWDM eSFP optical modules • GE SFP copper module
Console port	RJ45	<p>The console port is connected to a</p>	<p>Console cable</p>

Port	Connector Type	Description	Available Components
		console for on-site configuration.	

Indicators and Buttons

Figure 4-10 Indicators on the Switch

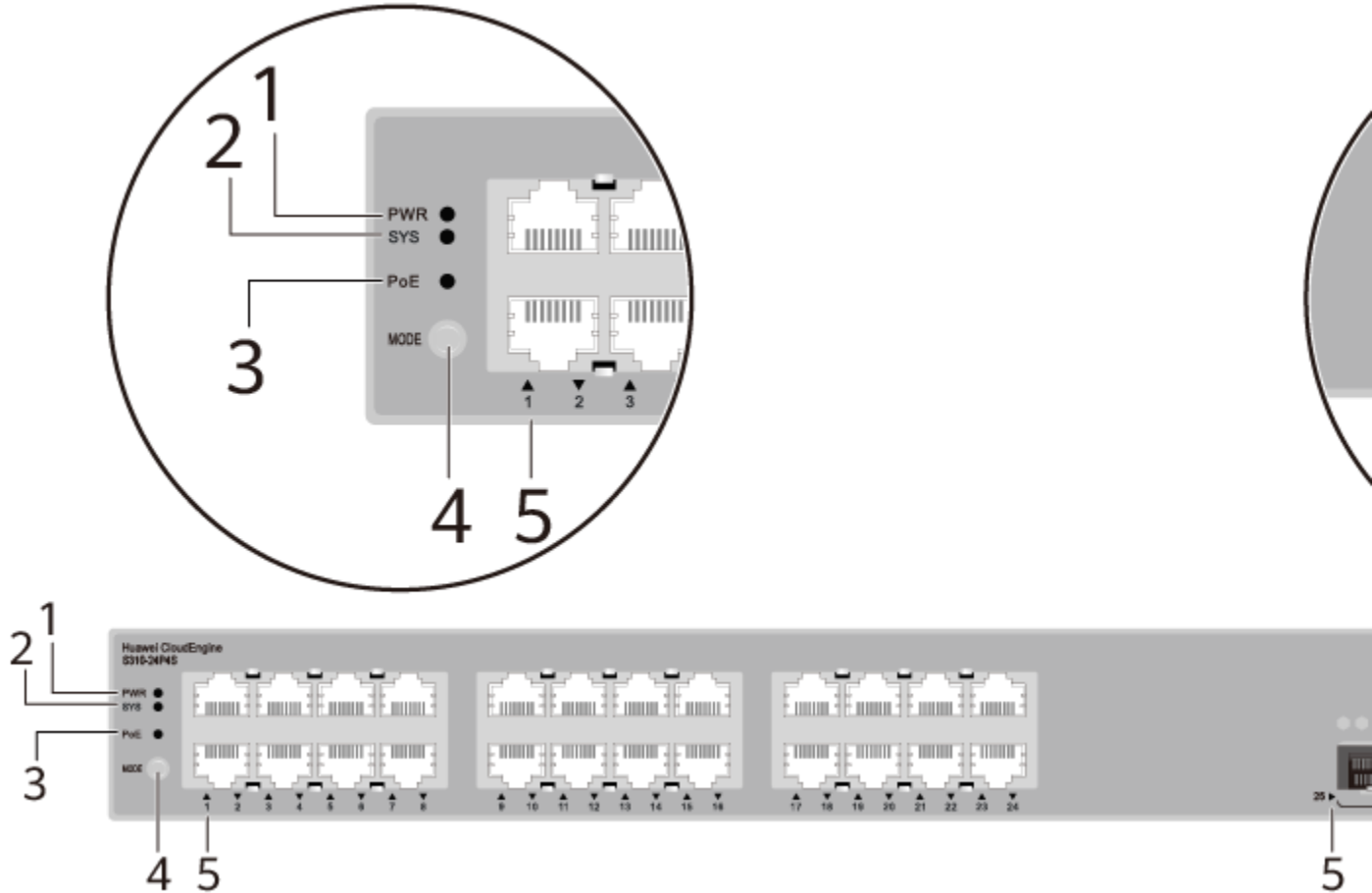


Table 4-28 Description of indicators on the switch

No.	Indicator	Name	Color	Status	Description
1	PWR	Power module indicator	-	Off	The switch is powered off.
			Green	Steady on	The power supply is normal.
			Yellow	Steady on	The power supply is abnormal.

No.	Indicator	Name	Color	Status	Description
2	SYS	System status indicator	-	Off	The system is not running.
			Green	Fast blinking	The system is starting.
			Green	Steady on	During the system startup preparation phase, the SYS indicator is steady green, which lasts for a maximum of 30 seconds.
			Green	Slow blinking	The system is running normally.
			Red	Steady on	The system does not work normally after registration, or a fan alarm or a temperature alarm has been generated.
3	PoE	PoE indicator	-	Off	The PoE mode is not selected.
			Green	Steady on	The PoE mode is selected, and service port indicators show the PoE status of each port.
4	MODE	Mode switch button	-	-	<ul style="list-style-type: none"> When you press this button once, the service port indicators change to the PoE mode and show the PoE status of each service port. When you press this button a second time, the service port indicators restore to the default mode and show the connection status and link activity of each service port. <p>If you do not press the MODE button within 45 seconds, the service port indicators restore to the</p>

No.	Indicator	Name	Color	Status	Description
					default mode. In this case, the PoE indicator is off.
5	-	Service port indicator	Meanings of service port indicators vary in different modes. For details, see Table 4-29 . NOTE: If a power failure occurs on a device's PCB board, indicators of the last four optical ports on the device's front panel blink green cyclically at an interval of 1 second, with each indicator illuminating for 0.25 seconds.		
6	ID	ID indicator	-	Off	The ID indicator is not used (default state).
			Blue	Steady on	The indicator identifies the switch to maintain. The ID indicator can be turned on or off remotely to help field engineers find the switch to maintain.

Table 4-29 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.
PoE mode	-	Off	The port is not providing power to a powered device (PD).
	Green	Steady on	The port is providing power to a PD.
	Green	Blinking	The power of the PD connected to the port exceeds the power capacity of the port or the power threshold configured on the port. Alternatively, the PD does not comply with IEEE standards.

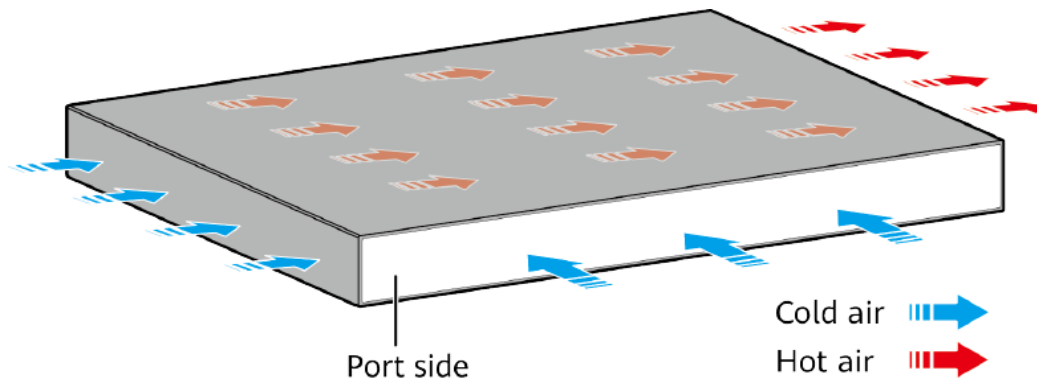
Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules. The built-in power module can provide 400 W PoE power, which ensures full PoE power on 24 ports in compliance with 802.3af or on 13 ports in compliance with 802.3at.

Heat Dissipation System

The switch has two built-in fans for forced air cooling. Air flows in from the left side and front panel, and exhausts from the right side.

When working properly at a normal temperature, the device meets the desktop-class noise requirements. However, the fan speed may be high and the noise may be loud during device startup.



NOTE

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

Technical Specifications

Table 4-30 Technical specifications of the S310-24P4S

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 220.0 mm (1.72 in. x 17.4 in. x 8.66 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 227.0 mm (1.72 in. x 17.4 in. x 8.94 in.)
Dimensions with packaging (H x W x D) [mm(in.)]	90.0 mm x 550.0 mm x 360.0 mm (3.54 in. x 21.65 in. x 14.17 in.)

Item	Specification
Chassis height [U]	1 U
Weight without packaging [kg(lb)]	2.92 kg (6.44 lb)
Weight with packaging [kg(lb)]	3.79 kg (8.36 lb)
Typical power consumption [W]	40.07 W
Typical heat dissipation [BTU/hour]	136.72 BTU/hour
Maximum power consumption [W]	<ul style="list-style-type: none"> • Without PoE: 47.1 W • Full PoE load: 491.66 W (PoE: 400 W)
Maximum heat dissipation [BTU/hour]	<ul style="list-style-type: none"> • Without PoE: 160.71 • Full PoE load: 1677.59
Static power consumption [W]	30.82 W
MTBF [year]	60.18 year
MTTR [hour]	2 hour
Availability	>0.99999
Noise at normal temperature (acoustic power) [dB(A)]	49.3 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	37.3 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2

Item	Specification
Redundant power supply	Not supported
Long-term operating temperature [°C(°F)]	-5°C to +50°C (23°F to 122°F) at an altitude of 0-1800 m (0-5905.44 ft.)
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800–5000 m (5906–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.). Devices cannot start when the temperature is lower than 0°C (32°F).
Storage temperature [°C(°F)]	-40°C to +70°C (-40°F to +158°F)
Long-term operating relative humidity [RH]	5% RH to 95% RH (non-condensing)
Long-term operating altitude [m(ft.)]	0–5000 m (0–16404 ft.)
Storage altitude [m(ft.)]	0-5000 m (0-16404 ft.)
Power supply mode	AC built-in
Rated input voltage [V]	AC input: 100–240 V AC; 50/60 Hz
Input voltage range [V]	AC input: 90–290 V AC; 45–65 Hz
Maximum input current [A]	6 A
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	Not supported

Item	Specification
USB	Not supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ± 7 kV
Power supply surge protection [kV]	Differential mode: ± 6 kV; common mode: ± 6 kV
Types of fans	Built-in
Heat dissipation mode	Air cooling for heat dissipation, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Supported
Certification	EMC certification Safety certification Manufacturing certification