S5700 Series Switches Hardware Description

Related Documents

[Network Encyclopedia] Switch Development History

S1700, S2700, S3700, S5700, and S6700 Series Switches Regulatory Compliance Statement(pdf)

S5700 Series Switches Product Description

Digital Signature File

Digital Signature Authentication Mode

Share

S5735-L32ST4X-A1

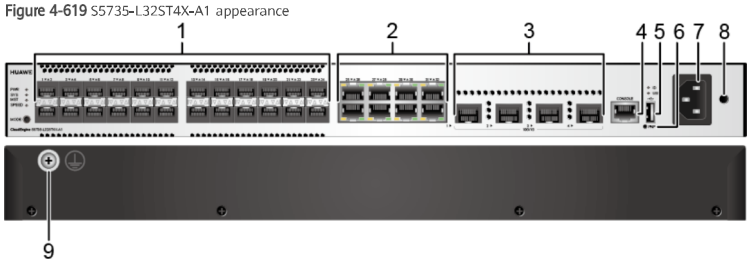
Overview

Table 4-1723 Basic information about the S5735-L32ST4X-A1

Item	Details
Description	S5735-L32ST4X-A1 (24*GE SFP ports, 8*10/100/1000BASE-T ports, 4*10GE SFP+ ports, AC power, front access)
Part Number	98011396
Model	S5735-L32ST4X-A1
First supported version	V200R020C10

Components

Figure 4-619 S5735-L32ST4X-A1 appearance



1	Twenty-four 100/1000BASE-X ports	2	Eight 10/100/1000BASE-T ports
3	Four 10GE SFP+ ports	4	One console port
5	One USB port	6	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.
7	AC socket **NOTE:** It is used with an AC power cable.	8	Jack for AC power cable locking strap **NOTE:** The AC power cable locking strap is not delivered with the switch.
9	Ground screw **NOTE:** It is used with a ground cable.	-	-

Ports

Table 4-1724 Ports on the S5735-L32ST4X-A1

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

S5735-L24T4X-A1
S5735-L24T4X-D1
S5735-L24P4X-A1
S5735-L32ST4X-A1
S5735-L32ST4X-D1
S5735-L48T4S-A1
S5735-L48P4S-A1
S5735-L48T4X-A1
S5735-L48P4X-A1
S5735-L8T4S-QA1
S5735-L8P4S-QA1
S5735-L24T4S-QA1
S5735-L24T4X-QA1
S5735S-L1
S5735S-L-M
S5735-L-I
S5735-S
S5735-S-I
S5735S-S
S5735S-H
S5736-S
Power Modules
Battery Modules
Fan Modules
Cards
Cables
Pluggable Modules for Interfaces
Accessories

		data at 100 Mbit/s or 1000 Mbit/s.	modules • GE eSFP optical modules • GE-CWDM eSFP optical modules • GE-DWDM eSFP optical modules • GE SFP copper module
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 (OSXD22N00 not supported) • 10GE-CWDM SFP+ optical modules • 10GE-DWDM SFP+ optical modules • 1 m and 3 m SFP+ high-speed copper cables • 3 m and 10 m SFP+ AOC cables • 0.5 m and 1.5 m SFP+ dedicated stack cables (only for zero-configuration stacking)
Console port	RJ45	The console port is connected to a console for on-site configuration.	Console 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 4-620 Indicators on the S5735-L32ST4X-A1

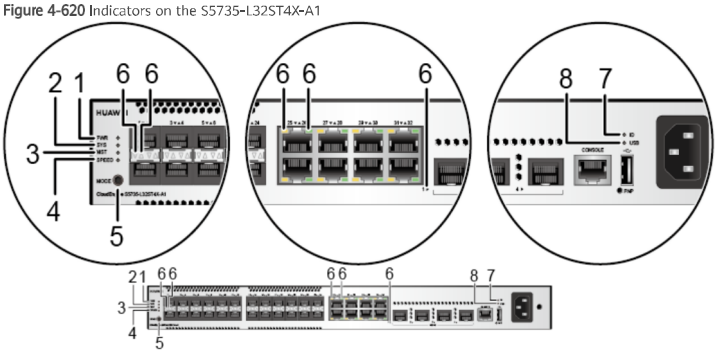


Table 4-1725 Description of indicators on the switch

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

		status indicator	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	MST	Stack indicator	-	Off	• 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. • If you are changing the indicator mode: The stack mode is not selected.
			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	• 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. • If you are changing the indicator mode: The stack mode is selected. The switch is the master switch in a 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.
4	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.
5	MODE	Mode switch button	-	-	• When you press this button once, the service port indicators change to the stack mode and show the stack ID of the local switch. • 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. • 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. 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. **NOTE:** 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: • 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: ▪ If the system enters the web initial login mode successfully, all mode indicators turn green and stay on for a maximum of 10 minutes. ▪ If the system fails to enter the initial login mode, all mode indicators fast blink for 10 seconds and then restore the default status. • 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.

		indicator	details, see Table 4-1726 and Table 4-1727. 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.		
7	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.
8	USB	USB-based deployment indicator	-	Off	• No USB flash drive is connected to the switch. • The USB port is damaged. • The indicator is damaged. • The USB flash drive does not have any configuration file and cannot be used for deployment. • The switch has been upgraded using the USB flash drive and is restarting.
			Green	Steady on	A USB-based deployment has been completed.
			Green	Fast blinking	The system is reading data from a USB flash drive.
			Green	Slow blinking	The switch has copied all the required files and completed the file check. The USB flash drive can be removed from the switch.
			Red	Fast blinking	An error has occurred when the system is executing the configuration file or reading data from the USB flash drive.

Table 4-1726 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	-	Off	The port is not connected or has been shut down.
	Green	Steady on	1000M/10GE port: The port is operating at 1000 Mbit/s.
	Green	Blinking	1000M/10GE port: The port is operating at 10 Gbit/s.

Table 4-1727 Description of service port indicators in different modes (two indicators 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.
	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. • If the indicator of a port is steady on, the number of this port is the stack ID of the switch. • If the indicators of ports 1 to 9 are steady on, the stack ID of the switch is 0.
	Green and yellow	Blinking	The switch is the master switch in a stack. • If the indicator of a port is blinking, the number of this port is the stack ID of the switch. • If the indicators of ports 1 to 9 are blinking, the stack ID of the switch is 0.

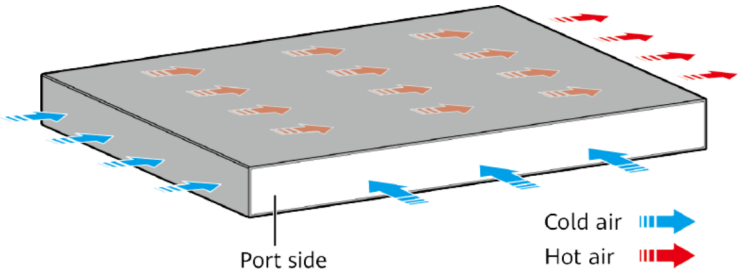
			down.
	Green and yellow	Steady on	10M/100M/1000M port: The port is operating at 10 Mbit/s or 100 Mbit/s. 100M/1000M port: The port is operating at 100 Mbit/s.
	Green and yellow	Blinking	10M/100M/1000M port: The port is operating at 1000 Mbit/s. 100M/1000M port: The port is operating at 1000 Mbit/s.

Power Supply System

The switch has a built-in AC power module and does not support pluggable power modules.

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.



NOTE

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

Technical Specifications

Table 4-1728 Technical specifications of the S5735-L32ST4X-A1

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 8.7 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.)
Chassis height [U]	1 U
Weight without packaging [kg(lb)]	2.88 kg (6.35 lb)
Weight with packaging [kg(lb)]	4.03 kg (8.89 lb)
Typical power consumption [W]	53.2 W
Typical heat dissipation [BTU/hour]	181.52 BTU/hour
Maximum power consumption [W]	66.8 W
Maximum heat dissipation [BTU/hour]	227.93 BTU/hour
MTBF [year]	58.44 year
MTTR [hour]	2 hour
Availability	>0.99999
Noise at normal temperature (acoustic power) [dB(A)]	46.8 dB(A)
Noise at normal temperature (acoustic pressure) [dB(A)]	35 dB(A)
Number of card slots	0
Number of power slots	0
Number of fans modules	2
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 (0-5906 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +55°C (23°F to 131°F) at an altitude of 0-1800 m (0-5906 ft.)

	(1.8°F) every time the altitude increases by 220 m (722 ft.). The equipment can operate beyond the normal operating temperature range for a short-term period, but the following conditions must be met: • The equipment operates at a temperature of over 50°C (122°F) consecutively for at most 96 hours in one year. • The equipment operates at a temperature of over 50°C (122°F) for a total of no more than 360 hours in one year. • The equipment operates at a temperature of over 50°C (122°F) for no more in 15 times in one year. The equipment may be damaged or experience unexpected exceptions if any of the preceding limits is exceeded. The equipment cannot start when the temperature is lower than 0°C (32°F). The maximum distance of optical modules used in these conditions cannot exceed 10 km.
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	AC built-in
Rated input voltage [V]	• AC input: 100 V AC to 240 V AC, 50/60 Hz • High-Voltage DC input: 240 V DC
Input voltage range [V]	• AC input: 90 V AC to 264 V AC, 47 Hz to 63 Hz • High-Voltage DC input: 190 V DC to 290 V DC
Maximum input current [A]	2 A
Memory	512 MB
Flash memory	512 MB
Console port	RJ45
Eth Management port	Not supported
USB	Supported
RTC	Not supported
RPS input	Not supported
Service port surge protection [kV]	Common mode: ±7 kV
Power supply surge protection [kV]	±6 kV in differential mode, ±6 kV in common mode
Types of fans	Built-in
Heat dissipation mode	Heat dissipation with fan, intelligent fan speed adjustment
Airflow direction	Air intake from left and front, air exhaustion from right
PoE	Not supported
Certification	EMC certification Safety certification Manufacturing certification