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Overview

CloudEngine S8700 series switches are high-end switches designed by Huawei for next-generation enterprise networks. The S8700 series uses Huawei's intelligent multi-layer switching technology to provide intelligent service optimization methods, such as VPN, service flow analysis, comprehensive QoS policies, controllable multicast, resource load balancing, and integrated security, in addition to stable, reliable, secure, and high-performance Layer 2/Layer 3 switching services. It features powerful scalability and high reliability. CloudEngine S8700 switches can be widely used on campus networks and data center networks to provide wireless access, voice, video, and data services, helping enterprises build an integrated end-to-end network.

Quick Specification

Table 1 shows the quick specification.

Model	S8700-10
Part Number	02116319
Description	S8700-10 assembly chassis
Dimensions without packaging (H x W x D) [mm(in.)]	- 575 mm x 442.0 mm x 482.8 mm (22.64 in. x 17.4 in. x 19.01 in.), dimensions of the chassis body, excluding mounting ears - 575 mm x 482.6 mm x 585.0 mm (22.64 in. x 19 in. x 23.03 in.), including mounting ears and cable management frames
Weight without packaging [kg(lb)]	39.84 (87.83)
Weight without packaging (full configuration) [kg(lb)]	97.35 (214.66)
Maximum power consumption [W]	2914 W (full configuration, without PoE)
Heat dissipation mode	Absorbing cold air into the device
Airflow direction	Front-to-back airflow
PoE	Supported

Figure 1 shows the appearance of S8700-10.

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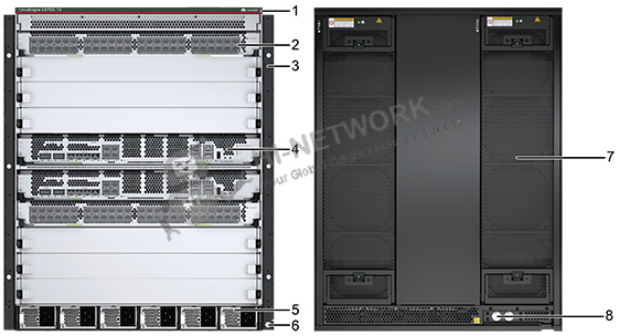
Product Details

Figure 2 shows the components of the S8700-10.



Note:

(1)	Chassis header	(5)	PWR
(2)	LPU	(6)	Front ESD jack
(3)	Cable management frame	(7)	Fan module
(4)	SRU	(8)	Two ground points for a two-hole OT terminal There is a yellow grounding label attached.

Get More Information

Do you have any question about the S8700-10 (02116319)?

Contact us now via info@hi-network.com.

Specification

S8700-10 Specification	
Basic Information	
Model	S8700-10
Part Number	02116319
Description	S8700-10 assembly chassis
First supported version	V600R021C00
Technical Specifications	
Dimensions without packaging (H x W x D) [mm(in.)]	- 575 mm x 442.0 mm x 482.8 mm (22.64 in. x 17.4 in. x 19.01 in.), dimensions of the chassis body, excluding mounting ears - 575 mm x 482.6 mm x 585.0 mm (22.64 in. x 19 in. x 23.03 in.), including mounting ears and cable management frames
Chassis height [U]	13

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Cabinet installation standards	A66E
Weight without packaging [kg(lb)]	39.84 (87.83)
Weight without packaging (full configuration) [kg(lb)]	97.35 (214.66)
Maximum power consumption [W]	2914 W (full configuration, without PoE)
Maximum heat dissipation [BTU/hour]	9942.98
MTBF [year]	30.65
MTTR [hour]	2
Availability	0.99999255112
Noise at normal temperature (acoustic power) [dB(A)]	- ≤67.5 dB(A) @AC 2500 W N+N power supply - ≤ 74.5 dB(A)@AC 2500 W N+1 power supply - ≤ 78.0 dB(A)@AC 2500 W N+0 power supply - ≤ 71.8 dB(A) @DC 2200 W N+1 power supply In N+0 power supply mode, it is recommended that the DC power output load do not exceed 1780 W. Otherwise, the noise may exceed 78 dBA. Note: - In V600R021C10 and later versions, 2200 W DC power modules are supported. - V600R021C10 and later versions support N+N configuration of AC power modules. - In V600R021C10 and later versions, the 3000 W capability of the AC power module (2500 W/3000 W AC&240 V DC power module) can be enabled using a command. When the power consumption of a single power module exceeds 2500 W, the noise may exceed 72 dB(A) in different power module configurations.
Number of MPU slots	2
Number of service board slots	8
Number of power slots	6
Number of fans modules	2
Redundant MPUs	The control and switching units work in hot standby mode (1:1).
Redundant power supply	- Dual-power input: The N+0 and N+1 modes are supported. The N+1 mode is recommended. - Single-power input: The N+0, N+1, and N+N modes are supported. The N+1 mode is recommended.
Redundant fans	Fan modules work in hot standby mode. The system can operate properly for a short time after a single fan module fails. You are advised to replace the faulty fan module immediately.
Long-term operating temperature [°C(°F)]	-5°C to 45°C (23°F to 113°F) at an altitude of -60 m to 1800 m (-197 ft. to 5906 ft.)
Short-term operating temperature [°C(°F)]	-5°C to +55°C (23°F to 131°F) at an altitude of -60 m to 1800 m (-197 ft. to 5906 ft.) Note: When the short-term operating temperature ranges from 45°C to 55°C: - When the PAC3KS54-DF (2500 W/3000 W AC&240 V DC power module) is used for power supply, the short-term operating temperature can reach 55°C only when the system is configured to work in N+1 power supply mode (the output power of a single power module is less than 2100 W). - Only optical modules with a transmission distance less than or equal to 10 km can be used.
Restriction on the operating temperature variation rate [°C(°F)]	When the altitude is 1800 m to 5000 m (5905.44 ft. to 16404.00 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage temperature [°C(°F)]	–40°C to +70°C (–40°F to +158°F)

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Long-term operating relative humidity [RH]	5% to 95%, noncondensing
Long-term operating altitude [m(ft.)]	–60 m to +5000 m (–197 ft. to +16404 ft.)
Storage altitude [m(ft.)]	< 5000 m (16404 ft.)
Rated input voltage [V]	- DC input: –48 V DC/–60 V DC/48 V DC - AC input: 110 V AC/220 V AC, 50/60 Hz - High-voltage DC input: 240 V DC Note: V600R021C10 and later versions support DC power input.
Input voltage range [V]	- DC input: -38.4 V DC to -72 V DC or 38.4 V DC to 57.6 V DC - AC input: 90 V AC to 290 V AC; 45 Hz to 65 Hz - High-voltage DC input: 190 V DC to 290 V DC Note: - V600R021C10 and later versions support DC input. - In V600R021C10 and later versions, the 3000 W output capability of AC power modules (2500 W/3000 W AC&240 V DC power modules) can be enabled using a command.
Power supply surge protection [kV]	- 2500 W/3000 W AC&240 V DC power module, AC input mode, power port: ±6 kV in common mode and ±6 kV in differential mode; HVDC input mode, power port: ±2 kV in common mode and ±4 kV in differential mode - 2200 W DC power module, DC power port: ±2 kV in common mode, ±6 kV in differential mode Note: V600R021C10 and later versions support 2200 W DC power modules.
Heat dissipation mode	Absorbing cold air into the device
Airflow direction	Front-to-back airflow
PoE	Supported
Relationship between PoE and system power modules [W]	Shared, not differentiated
Maximum PoE output power per slot [W]	4800 W (2880 W/slot for the current card)
Maximum number of PoE ports per slot	48
Maximum PoE output power [W]	90
Maximum power output capability (including the system power output and PoE power output) [W]	- Six 2500 W/3000 W AC&240 V DC power modules: 15000 W (220 V AC or 240 V DC input; output power of each power module: 2500 W) - Six 2200 W DC power modules: 13200 W - N 2500 W/3000 W AC&240 V DC power modules and M 2200 W DC power modules: N x 2500 W + M x 2200 W Note: - V600R021C10 and later versions support DC power input. - In V600R021C10 and later versions, the 3000 W output of 2500 W/3000 W AC&240 V DC power modules can be enabled using a command. When the power module works in 3000 W mode, it can be used only at an altitude lower than 2000 m (6562 ft.). In addition, it cannot be used together with other power modules. - When the input voltage of an AC power module is 110 V, the AC power module cannot be used together with other power modules. Otherwise, overcurrent protection may be triggered for the power module.
Certification	- EMC certification - Safety certification - Manufacturing certification

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