

CloudEngine S8700 Series Switches Brochure

Huawei CloudEngine S8700 series switches are next-generation modular aggregation/access switches designed specially for premium campus networks. These flagship switches deliver optimal user experience, reduce network operational costs, and offer unmatched network security and trustworthiness.

Product Overview

Huawei CloudEngine S8700 series switches ("CloudEngine S8700") are next-generation modular aggregation/access switches ideal for premium campus networks in the Wi-Fi 6 era. They are available in two models — CloudEngine S8700-6 with 6 slots and CloudEngine S8700-10 with 10 slots — and come with ultra-high densities of GE, 10GE, 25GE, 40GE, and 100GE access ports, helping quickly build a future-proof campus network with simplified architecture.

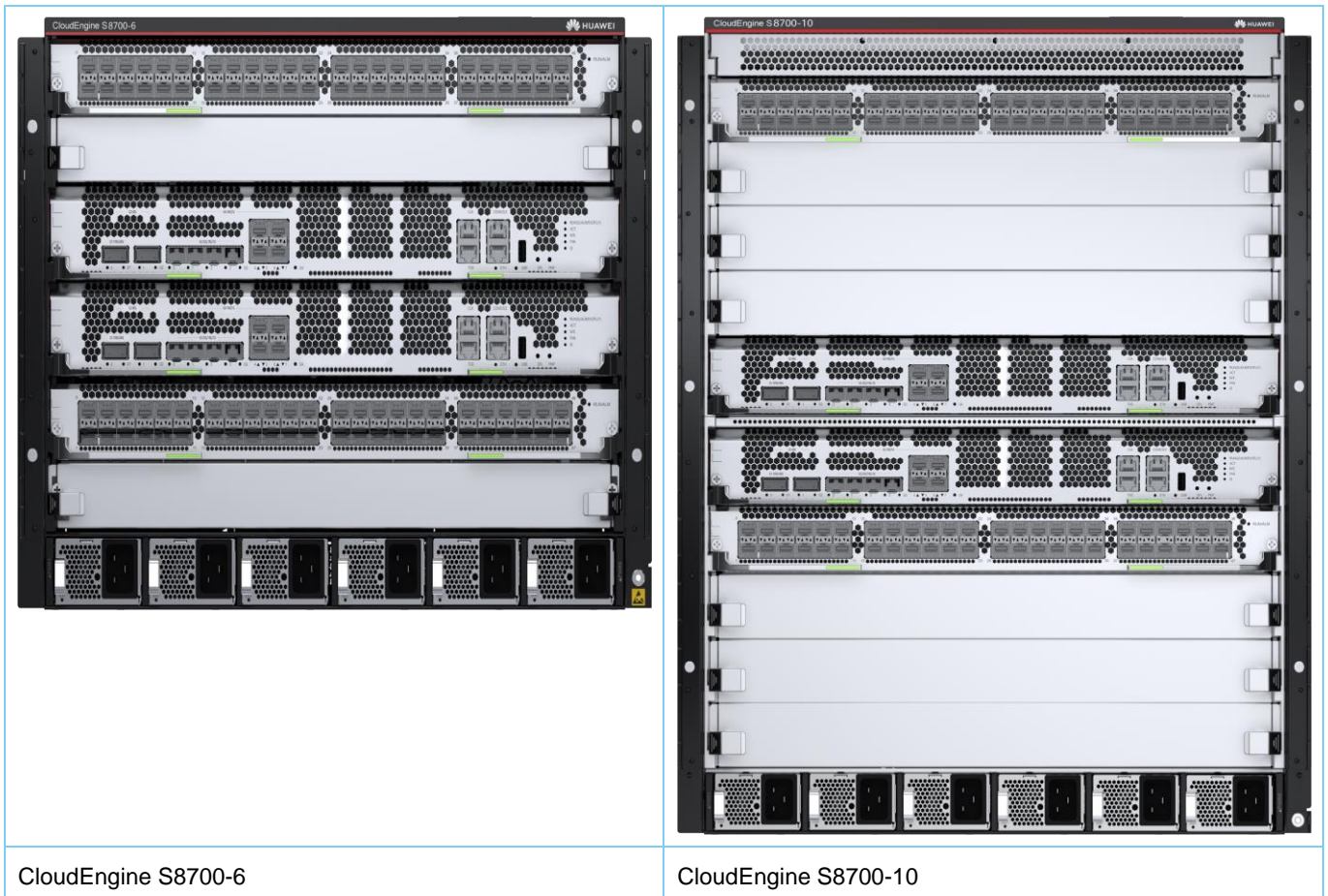
CloudEngine S8700 offers customers a trusted system and secure data access. All key components of CloudEngine S8700, including the main control boards, power modules, and fan modules, adopt a redundancy design for carrier-grade reliability.

With all these traits, CloudEngine S8700 is an ideal choice of aggregation/access nodes needed to build future-proof cloud campus networks, helping customers achieve their digital transformation goals.

Highlights of CloudEngine S8700 include:

- **High-density access:** Up to 48 multi-GE ports per board and 384 multi-GE ports per chassis — which are 10GE capable — facilitate unified access for high densities of terminals.
- **Ultra-high reliability:** Redundancy design for key components ensures carrier-grade reliability. The dual-active detection (DAD) mechanism for the two main control boards automatically switches over services upon detecting a fault in any main control board, ensuring service continuity.
- **Super power over Ethernet (PoE):** Innovative optical-electrical synergy technology supports PoE power supply at ultra-long distances. Up to 90 W PoE++ on a single port supplies power to APs, IP phones, and other high-power terminals.
- **Energy saving:** Innovative "Y + Psi (ψ)"-type front-to-rear air duct design for heat dissipation and mixed-flow fan technology deliver low power consumption, low noise, strong heat dissipation, and energy saving.

Models and Appearances



Features and Highlights

Switch Highlights

Leading Architecture Built for Next-Generation Networks

- CloudEngine S8700 uses fully programmable chips that adapt to the changing service forwarding processes driven by protocol evolution and technology advances. It enables fast and flexible provisioning of new services simply by upgrading software, without having to replace hardware, thereby protecting customers' investments. In contrast, traditional Application Specific Integrated Circuit (ASIC) chips use a fixed forwarding architecture and follow a fixed forwarding process. For this reason, new services cannot be provisioned until new hardware is developed to support the services, which can take one to three years.
- In addition to having capabilities of traditional switches, CloudEngine S8700 offers fully programmable open interfaces and supports user-defined forwarding processes to meet service customization requirements of enterprises. Enterprises can use the multi-layered open interfaces to develop new protocols and functions independently or jointly with equipment vendors to build campus networks meeting their own needs.

Powerful Service Processing Capability and Flexible Network Scalability

- CloudEngine S8700 is highly scalable to seamlessly evolve to higher bandwidth and easily upgrade port speeds, and is also compatible with currently used cards, protecting investments.
- Ultra-high densities of GE, 10GE, and multi-GE ports help to build an all-10GE core in enterprise campuses and data centers.
- With a multi-service routing and switching platform, CloudEngine S8700 meets service transmission requirements at the access, aggregation, and core layers of enterprise networks, and provides wireless, voice, video, and data services, helping to build an all-service network with high availability and low latency.

- CloudEngine S8700 supports a broad set of Layer 2 and Layer 3 multicast protocols, such as Protocol-Independent Multicast (PIM) Sparse Mode (SM), PIM Dense Mode (DM), PIM Source-Specific Multicast (SSM), and Internet Group Management Protocol (IGMP) snooping. This capability greatly facilitates high-definition video surveillance and videoconferencing access for multiple terminals.

Carrier-Grade Reliability for Worry-free Service Running

- CloudEngine S8700 provides redundant backup for key components, including main control boards, power modules, and fan modules, all of which are hot swappable.
- The main control boards work in 1:1 forwarding backup mode and offer dual data forwarding planes to implement fast service switchover. This design ensures hitless performance of the entire system when a single main control board is faulty, maximizing user experience.
- Innovative high-density miniaturized power modules adopt the pooling design and support N+N backup, N+1 backup, and N+0 non backup. With such designs, a power failure does not affect the running of the entire system.
- The modular dual-fan box is designed. When one fan in the module is faulty, other fans can adjust the speed intelligently to ensure heat dissipation of the system.

Innovative Energy-Saving Design for Intelligent Power Consumption Control

- CloudEngine S8700 uses innovative energy-saving chips capable of dynamically adjusting power on all ports based on traffic volume, with idle ports entering sleep mode to reduce power consumption.
- CloudEngine S8700 supports intelligent Power over Ethernet (PoE) and uses different energy management modes depending on the powered device (PD) type, providing flexible energy management.
- CloudEngine S8700 also supports Energy Efficient Ethernet (IEEE 802.3az), whereby transceivers on line cards can quickly transition to the lower power idle state to reduce power consumption when no traffic is being transmitted.
- The fan module automatically adjusts the fan speed based on the ambient temperature to reduce power consumption.
- The front-to-back airflow meets the airflow requirements of the equipment room to avoid cascading heating.

Super PoE Capability Ideal for Connectivity of Everything on a Next-Generation Campus

- CloudEngine S8700 is also equipped with a high-density multi-GE line card (10GE capable), which supports up to 90 W PoE++ on a single port, supplying power to Wi-Fi 6 access points (APs), HD cameras, and videoconferencing endpoints.
- CloudEngine S8700 also provides the perpetual PoE capability. When CloudEngine S8700 reboots (for example, when the software version is upgraded), the power supply to PDs connected to CloudEngine S8700 is not interrupted. This ensures uninterrupted power supply to PDs during the switch restart.

Innovative hybrid optical-electrical access drives campus network media transformation and accelerates enterprise green and low-carbon transformation.

- The S8700 provides 48 x 10GE combo ports, meeting requirements for 10GE optical port interconnection and PoE++ power supply. For example, the ports can be connected to downstream switches, Wi-Fi 6 APs, or other wired terminals.
- Using hybrid cables 2.0, the switch can provide PoE++ for devices (such as Wi-Fi 6 APs) over a distance of up to 300 m, far exceeding the PoE limitation of 100 m.
- With optical data transmission, the switch can provide up to 10 Gbit/s access for connected devices, reaching ultra-fast upstream transmission.
- The switch can be easily upgraded through optical module replacement to provide higher bandwidth (for example, from 10 Gbit/s to 25 Gbit/s, 40 Gbit/s, or even 100 Gbit/s) without additional cabling, maximizing customers' return on investment (ROI).

Comprehensive Security Protection to Fend Off Security Threats In and Outside of Enterprises

- The S8700 supports MACsec that provides hop-by-hop secure data transmission. MACsec is suitable for meeting high requirements on data confidentiality in scenarios such as governments and financial institutions.
- Comprehensive Network Admission Control (NAC) solutions for enterprise networks: The S8700 supports MAC address authentication, 802.1X authentication, policy association, and free mobility to ensure the security of various access modes, such as dumb terminal access, mobile access, and centralized IP address allocation.
- Two-level CPU protection mechanism: The S8700 supports CPU hardware queues and separates the data plane from the control plane, which helps to defend against DoS attacks and unauthorized access while preventing control plane overloading.

Virtualization for a Multi-Purpose Network

- CloudEngine S8700 is designed with abundant Virtual Extensible LAN (VXLAN) features. Specifically, it supports centralized and distributed VXLAN gateway deployment modes, dynamically establishes VXLAN tunnels through Border Gateway Protocol Ethernet Virtual Private Network (BGP EVPN), and allows configuration through NETCONF/YANG.
- By using VXLAN, CloudEngine S8700 constructs a Unified Virtual Fabric (UVF). As such, multiple service networks or tenant networks can be deployed on the same physical network while being isolated from each other. This capability truly achieves 'one network for multiple purposes'. The resulting benefits include enabling data transmission of different services or customers, reducing network construction costs, and improving network resource utilization.

High Performance IPv6 Service Processing Allows Seamless Transition from IPv4 to IPv6

- The S8700 software and hardware platforms support the IPv4/IPv6 dual stack, various tunneling technologies, IPv6 static routing, RIPng, OSPFv3, BGP+, and IPv6 IS-IS, allowing for pure IPv6 networking and combined IPv4 and IPv6 networking.

Fine-Grained Network Management and Visualized Fault Diagnosis

- In-situ Flow Information Telemetry (IFIT) is an in-band Operations, Administration, and Maintenance (OAM) measurement technology that uses service packets to measure real performance indicators of an IP network, such as the packet loss rate and delay. IFIT can significantly improve the timeliness and effectiveness of network O&M, thereby promoting the development of intelligent O&M.
- IFIT supports application-level quality measurement, tunnel-level quality measurement, and native-IP IFIT measurement. Currently, the device supports only native-IP IFIT measurement. Unless otherwise specified, IFIT in the following sections refers to native-IP IFIT measurement.
- IFIT provides in-band measurement capabilities to monitor indicators such as the delay and packet loss rate of service flows in real time.
- IFIT provides visualized O&M capabilities to centrally manage and control networks and graphically display performance data.
- IFIT has high measurement precision and is easy to deploy. It helps construct an intelligent O&M system and has future-oriented scalability.

Openness and Programmability

- CloudEngine S8700 supports the Open Programmability System (OPS), an open programmable system based on the Python language. IT administrators can program the O&M functions of CloudEngine S8700 through Python scripts to quickly innovate functions and implement intelligent O&M.

Solution Benefits

Simplified Management

- Deployment automation: CloudEngine S8700 supports VXLAN and BGP EVPN, and builds a Unified Virtual Fabric (UVF) to automate deployment of up to 512 Virtual Networks (VNs). In this way, multiple service networks or tenant networks can be deployed and isolated from each other on the same physical network, truly achieving one network for multiple purposes.
- Policy automation: CloudEngine S8700 uses SDN to automate deployment of wired and wireless user policies and implement refined management and control, achieving free mobility.

Intelligent O&M

- CloudEngine S8700 provides telemetry technology to collect device data in real time and send the data to Huawei campus network analyzer CampusInsight. The CampusInsight then analyzes network data based on the intelligent fault identification algorithm, accurately displays the real-time network status, effectively demarcates and locates faults in a timely manner, and identifies network problems that affect user experience, accurately guaranteeing user experiences.
- CloudEngine S8700 supports NetStream for real-time collection and analysis of network traffic statistics. It supports NetStream V5, V8, and V9 packet formats and reduces loads on the network collector. NetStream supports real-time traffic sampling, traffic attribute analysis, and traffic exception traps. This function help you monitor real-time traffic information and analyze device throughput, so as to make decisions on network structure optimization and capacity expansion.

Licensing

CloudEngine S8700 supports both the traditional feature-based licensing mode and the latest Huawei IDN One Software (N1 mode for short) licensing mode. The N1 mode is ideal for on-premises deployment modes for enterprise campus networks, and greatly enhances the customer experiences in purchasing and upgrading software services with simplicity.

The following table describes software package features in N1 mode.

Switch Functions	N1 Basic Software	N1 Foundation Software Package	N1 Advanced Software Package
Basic network functions: Layer 2 functions, IPv4, IPv6, and others Note: For details, see the Functions and Features	√	√	√
Basic network automation based on the Agile Controller: <ul style="list-style-type: none"> Basic automation: Plug-and-play Basic monitoring: Application visualization NE management: Image and topology management and discovery 	×	√	√
Advanced network automation and intelligent O&M: VXLAN, user access authentication, free mobility, and CampusInsight basic functions	×	×	√

Product Specifications

Functions and Features

Category	Service Features	CloudEngine S8700-6	CloudEngine S8700-10
User management	Unified user management	Yes	Yes
	PPPoE, 802.1X, MAC, authentication	Yes	Yes
	Traffic- and duration-based accounting	Yes	Yes
	User authorization based on user groups, domains, and time ranges	Yes	Yes
MAC address	Maximum number of MAC entries	384K(MAX)	384K(MAX)
	Automatic MAC address learning and aging	Yes	Yes
	Static, dynamic, and blackhole MAC address entries	Yes	Yes
	Source MAC address filtering	Yes	Yes
	MAC address learning limiting based on ports and VLANs	Yes	Yes
VLAN	4K VLANs	Yes	Yes
	Access, trunk, and hybrid interface types; auto-negotiation of LNP link types	Yes	Yes
	Default VLAN	Yes	Yes

Category	Service Features	CloudEngine S8700-6	CloudEngine S8700-10
	VLAN switching	Yes	Yes
	QinQ and enhanced selective QinQ	Yes	Yes
	Dynamic VLAN assignment based on MAC addresses	Yes	Yes
ARP	ARP Snooping	Yes	Yes
IP routing	IPv4 dynamic routing protocols such as RIP, OSPF, IS-IS, and BGP	Yes	Yes
	IPv6 dynamic routing protocols such as RIPng, OSPFv3, ISISv6, and BGP4+	Yes	Yes
Multicast	IGMPv1/v2/v3 and IGMP v1/v2/v3 Snooping	Yes	Yes
	PIM-DM, PIM-SM, and PIM-SSM	Yes	Yes
	Fast-leave mechanism	Yes	Yes
	Multicast traffic control	Yes	Yes
	Multicast querier	Yes	Yes
	Multicast protocol packet suppression	Yes	Yes
VXLAN	Centralized gateway	Yes	Yes
	Distributed gateway	Yes	Yes
	BGP-EVPN	Yes	Yes
	Configures VXLANs through NETCONF	Yes	Yes
QoS	Traffic classification based on Layer 2 headers, Layer 3 protocols, Layer 4 protocols, and 802.1p priority	Yes	Yes
	Actions such as ACL, Committed Access Rate (CAR), re-marking, and scheduling	Yes	Yes
	Queuing algorithms, such as PQ, WRR, DRR, PQ+WRR, and PQ+DRR	Yes	Yes
	Congestion avoidance mechanisms such as WRED and tail drop	Yes	Yes
	Traffic shaping	Yes	Yes
Native-IP IFIT	Marks the real service packets to obtain real-time count of dropped packets and packet loss ratio	Yes	Yes
	The statistical period can be modified	Yes	Yes
	Two-way frame delay measurement	Yes	Yes
Ring network protection	STP (IEEE 802.1d), RSTP (IEEE 802.1w), and MSTP (IEEE 802.1s).	Yes	Yes
	BPDU protection, root protection, and loop protection	Yes	Yes
	G.8032 Ethernet Ring Protection Switching (ERPS)	Yes	Yes
Reliability	Link Aggregation Control Protocol (LACP) and E-Trunk	Yes	Yes
	Virtual Router Redundancy Protocol (VRRP) and	Yes	Yes

Category	Service Features	CloudEngine S8700-6	CloudEngine S8700-10
	Bidirectional Forwarding Detection (BFD) for VRRP		
	BFD for BGP/IS-IS/OSPF/static routes	Yes	Yes
	Eth-OAM 802.3ah and 802.1ag	Yes	Yes
	Smart Link	Yes	Yes
System Management	Terminal access services such as console port login, Telnet, and SSH	Yes	Yes
	Network management protocols, such as SNMPv1/v2/v3	Yes	Yes
	File uploading and downloading through FTP, TFTP and SFTP	Yes	Yes
	BootROM upgrade and remote in-service upgrade	Yes	Yes
	Hot patches	Yes	Yes
	User operation logs	Yes	Yes
	Open Programmability System (OPS)	Yes	Yes
	Streaming Telemetry	Yes	Yes
Security and management	MACsec	Yes	Yes
	NAC	Yes	Yes
	RADIUS and HWTACACS authentication for login users	Yes	Yes
	Command line authority control based on user levels, preventing unauthorized users from using command configurations	Yes	Yes
	Defense against DoS attacks, Transmission Control Protocol (TCP) SYN Flood attacks, User Datagram Protocol (UDP) Flood attacks, broadcast storms, and heavy traffic attacks	Yes	Yes
	CPU hardware queues to implement hierarchical scheduling and protection for protocol packets on the control plane	Yes	Yes
	Remote Network Monitoring (RMON)	Yes	Yes
	Secure boot (need to use MPU that supports secure boot)	Yes	Yes

Hardware Specifications

Item	CloudEngine S8700-6	CloudEngine S8700-10
Dimensions without packaging (H x W x D) [mm(in.)]	352.8 mm x 442 mm x 515.5 mm (13.89 in. x 17.40 in. x 20.30 in.)	575 mm x 442 mm x 515.5 mm (22.64 in. x 17.40 in. x 20.30 in.)
Chassis height [U]	8 U	13 U
Weight without packaging (base configuration) [kg(lb)]	27.04 kg (59.62 lb)	39.84 kg (87.85 lb)
Weight without packaging (full configuration) [kg(lb)]	64.24 kg (141.65 lb)	97.35 kg (214.66 lb)

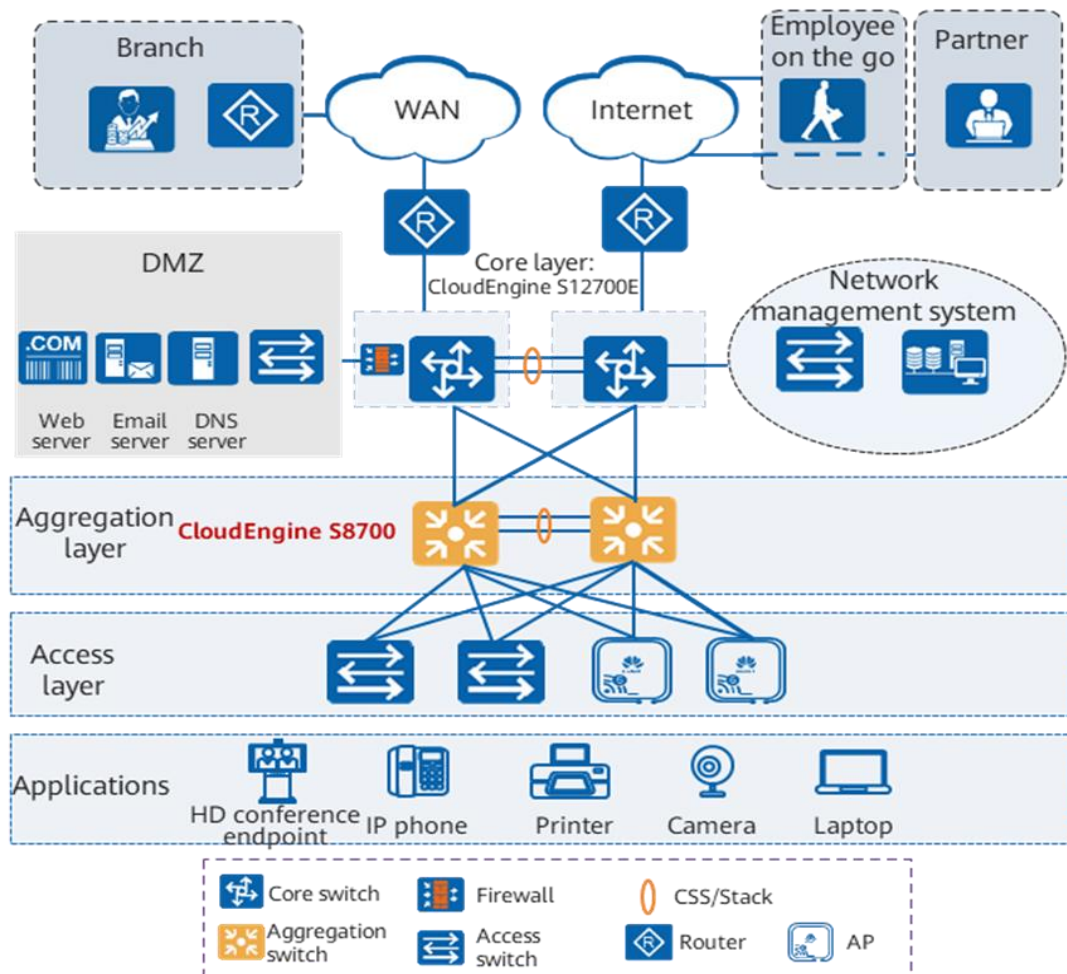
Item	CloudEngine S8700-6	CloudEngine S8700-10
Switching capacity	2.4Tbps	3.2Tbps
Main Control Board Slots	2	2
Service Card Slots	4	8
Fan Slots	2	2
System Power Supplies	6	6
Redundant MPUs	The control unit and switching unit work in hot standby (1:1) mode.	The control unit and switching unit work in hot standby (1:1) mode.
Redundant power supply	<ul style="list-style-type: none"> 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. 	<ul style="list-style-type: none"> 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.	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.
Rated input voltage [V]	<ul style="list-style-type: none"> 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 	<ul style="list-style-type: none"> 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
Input voltage range [V]	<ul style="list-style-type: none"> DC input: -38.4 V DC to -72 V DC AC input: 90–290 V AC; 45–65 Hz High-voltage DC input: 190 V DC to 290 V DC 	<ul style="list-style-type: none"> DC input: -38.4 V DC to -72 V DC AC input: 90–290 V AC; 45–65 Hz High-voltage DC input: 190 V DC to 290 V DC
Maximum power consumption [W]	1560 W (full configuration, without PoE)	2914 W (full configuration, without PoE)
Maximum power output capability (including the system power output and PoE power output) [W]	<ul style="list-style-type: none"> Configured with six 2500 W/3000 W AC&240 V DC power modules: 15000 W (220 V AC input or 240 V DC input; the output power of a single power module is 2500 W) Configured with six 2200 W DC power modules: 13200 W Intermixing of N 2500 W/3000 W AC&240 V DC power modules and M 2200 W DC power modules: (N+M) x 2200 W <p>NOTE</p> <ul style="list-style-type: none"> In V600R021C10 and later versions, the 3000 W output capability of the AC power module (2500 W/3000 W AC&240 V DC power module) can be enabled using a command. 	<ul style="list-style-type: none"> Configured with six 2500 W/3000 W AC&240 V DC power modules: 15000 W (220 V AC input or 240 V DC input; the output power of a single power module is 2500 W) Configured with six 2200 W DC power modules: 13200 W Intermixing of N 2500 W/3000 W AC&240 V DC power modules and M 2200 W DC power modules: (N+M) x 2200 W <p>NOTE</p> <ul style="list-style-type: none"> In V600R021C10 and later versions, the 3000 W output capability of the AC power module (2500 W/3000 W AC&240 V DC power module) can be enabled using a command.
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.)	-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	55°C (131°F) at an altitude of -60 m to 1800 m	55°C (131°F) at an altitude of -60 m to 1800 m

Item	CloudEngine S8700-6	CloudEngine S8700-10
temperature [°C(°F)]	(-197 ft. to 5906 ft.) NOTE When the PAC3KS54-DF (2500 W/3000 W AC&240 V DC power module) is used, the device can work at 55°C (131°F) for a short period only when the system works in the N+1 power supply mode (the output power of a single power module is less than 2100 W).	m (-197 ft. to 5906 ft.) NOTE When the PAC3KS54-DF (2500 W/3000 W AC&240 V DC power module) is used, the device can work at 55°C (131°F) for a short period only when the system works in the N+1 power supply mode (the output power of a single power module is less than 2100 W).
Relative humidity	5% to 95% (non-condensing)	
Heat dissipation mode	Air intake from the front and exhaust from the rear; Air extraction and heat dissipation, intelligent speed adjustment	

Networking and Applications

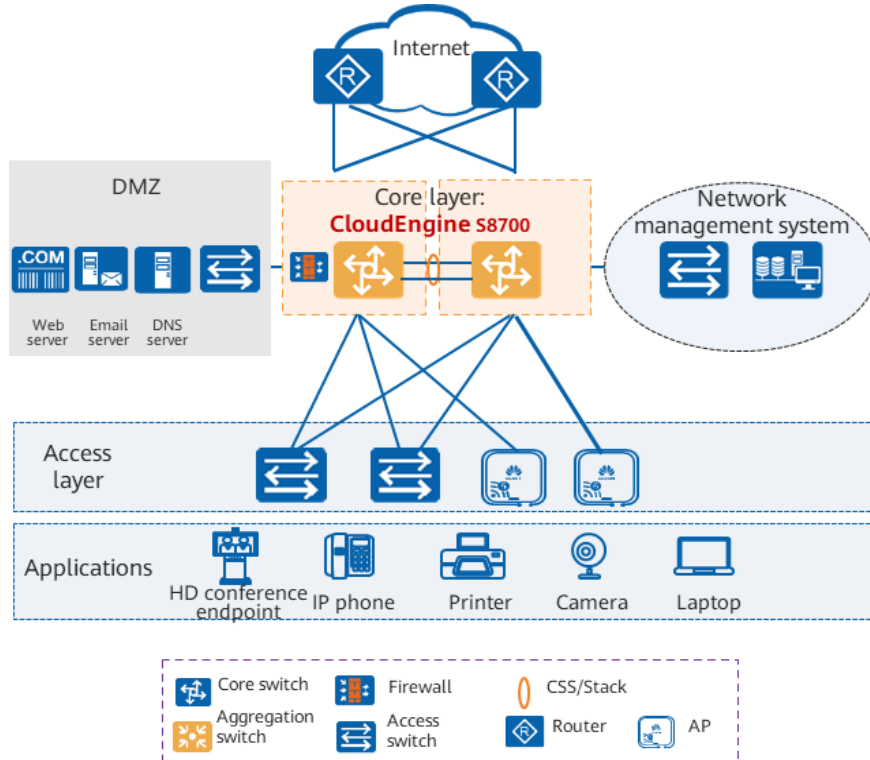
Large Enterprise Campus Networks

- As shown in the figure above, the large enterprise campus network uses three-layer networking architecture, where CloudEngine S8700 functions as the aggregation switch. With abundant GE, 10GE, and multi-GE interface cards, as well as powerful PoE capabilities, CloudEngine S8700 can also be used as access switches, providing large-bandwidth access and power supply for APs.
- With CloudEngine S8700, enterprises can build a future-proof campus network featuring strong reliability, high-density access, and high energy efficiency



Small/Midsize Enterprise Campus Networks

- On a simplified small or midsize enterprise campus network shown in the figure above, CloudEngine S8700 functions as the core switch. With 10GE optical interface cards, CloudEngine S8700 can also be used as the central switch to work with remote desktop switches.
- In addition, CloudEngine S8700 is equipped with abundant GE, 10GE, and multi-GE interface cards and offers powerful PoE capabilities, making it an ideal access switch that provides large-bandwidth access and power supply for APs.
- With CloudEngine S8700, enterprises can embrace a future-proof campus network with stand-out features such as strong reliability, high-density access, and high energy efficiency



Ordering Information

Hardware ordering

CloudEngine S8700 Basic Configuration	
ES1BA66E0000	Assembly cabinet (600 mm x 600 mm x 2200 mm)
ES1BS8706SP0	S8700-6 assembly chassis
ES1BS8710SP0	S8700-10 assembly chassis
FAN-240SM-B	S8700-6 fan module with two fans
FAN-480SM-B	S8700-10 fan module with four fans
Bundles	
S8700-06-B01	S8700-6 basic engine bundle (including one assembly chassis, two SRUEs)
S8700-10-B01	S8700-10 basic engine bundle (including one assembly chassis, two SRUFs)

SRU	
LSG7SRUEX1T0	S8700-6 main control unit E, supporting 1*100G QSFP28, 2*40G QSFP+, 4*25G SFP28, or 8*10G

SRU	
	SFP+ ports (HTM)
LSG7SRUFX1T0	S8700-10 main control unit F, supporting 1*100G QSFP28, 2*40G QSFP+, 4*25G SFP28, or 8*10G SFP+ ports (HTM)

Power Module	
PAC3KS54-DF	2500 W/3000 W AC & 240 V DC power module (front-to-back, power panel side intake)
PDC2K2S54-DF	2200 W DC Power Module (Front to Back, Power panel side intake)

10GE Hybrid optical-electrical interface card		Version
LSG7X48PX1E0	48-port 100M/1G/10GBASE-X PoE++ hybrid interface card (SFP+, PoE++)	V200R021C10 or later versions

10GE Optical Interface Card		Version
LSG7X48SX1E0	48-port 100M/1G/10GBASE-X interface card (SFP+)	V200R021C00 or later versions
LSG7X24SX1E0	24-port 100M/1G/10GBASE-X interface card (SFP+)	V200R021C00 or later versions

100M/1G/2.5G/5G/10G Multi-GE Interface Card		Version
LSG7M48VX1E0	48-port 100M/1G/2.5G/5G/10G multi-GE PoE++ interface card (RJ45, PoE++)	V200R021C00 or later versions

GE/10GE Hybrid Interface Card		Version
LSG7X52BX1E0	16-port 100M/1GBASE-X, 12-port 100M/1G/10GBASE-X, and 24-port 10/100/1000BASE-T interface card (SFP, SFP+,RJ45)	V200R021C00 or later versions
LSG7X24BX1E0	20-port 100/1000BASE-X and 4-port 100M/1G/10GBASE-X interface card (SFP, SFP+)	V200R021C10 or later versions

GE Optical Interface Card		Version
LSG7G48SX1E0	48-port 100/1000BASE-X interface card (SFP)	V200R021C00 or later versions

GE Electrical Interface Card		Version
LSG7G48TX1E0	48-port 10/100/1000BASE-T interface card (RJ45)	V200R021C00 or later versions
LSG7G48VX1E0	48-port 10/100/1000BASE-T PoE++ interface card (RJ45, PoE++)	V200R021C10 or

GE Electrical Interface Card		Version
		later versions
LSG7G24TX1E0	24-port 10/100/1000BASE-T interface card (RJ45)	V200R021C10 or later versions

Software ordering

Software	
L-MLIC-S87	S87 Series Basic SW,Per Device
L-1GUPG2.5G-MODULAR	Modular switch, 1G to 2.5G Electronic RTU License, 12-port
L-1GUPG5G-MODULAR	Modular switch, 1G to 5G Electronic RTU License, 12-port
L-1GUPG10G-MODULAR	Modular switch, 1G to 10G Electronic RTU License, 12-port
L-2.5GUPG5G-MODULAR	Modular switch, 2.5G to 5G Electronic RTU License, 12-port
L-2.5GUPG10G-MODULAR	Modular switch, 2.5G to 10G Electronic RTU License, 12-port
L-5GUPG10G-MODULAR	Modular switch, 5G to 10G Electronic RTU License, 12-port
N1 License	
N1-S87-M-Lic	S87 Series Basic SW,Per Device
N1-S87-M-SnS	S87 Series Basic SW,SnS,Per Device
N1-S87-F-Lic	N1-CloudCampus,Foundation,S87 Series,Per Device
N1-S87-F-SnS	N1-CloudCampus,Foundation,S87 Series,SnS,Per Device
N1-S87-A-Lic	N1-CloudCampus,Advanced,S87 Series,Per Device
N1-S87-A-SnS	N1-CloudCampus,Advanced,S87 Series,SnS,Per Device
N1-S87-FToA-Lic	N1-Upgrade-Foundation to Advanced,S87 Series,Per Device
N1-S87-FToA-SnS	N1-Upgrade-Foundation to Advanced,S87 Series,SnS,Per Device

More Information


For more information about Huawei Campus Switches, visit <http://e.huawei.com> or contact us in the following ways:

- Global service hotline: <http://e.huawei.com/en/service-hotline>
- Logging in to the Huawei Enterprise technical support website: <http://support.huawei.com/enterprise/>
- Sending an email to the customer service mailbox: support_e@huawei.com

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