Overview

Offering high-performance, high port density, and low latency, CloudEngine 6800 series switches enable enterprises and carriers alike to build cloud-oriented data center networks. The series features an advanced hardware design combined with either 10 GE, 25 GE, or 50 GE access ports, and 40 GE, 100 GE, or 200 GE uplink ports. Advanced data center features, high-performance stacking technologies, and flexible airflow capabilities complete the series. CloudEngine 6800 is well-suited to both the core and aggregation layers, and is fully compatible with CloudEngine 16800 and 12800 series switches, enabling enterprises to build scalable, simplified, open, and secure networks.

Quick Specification

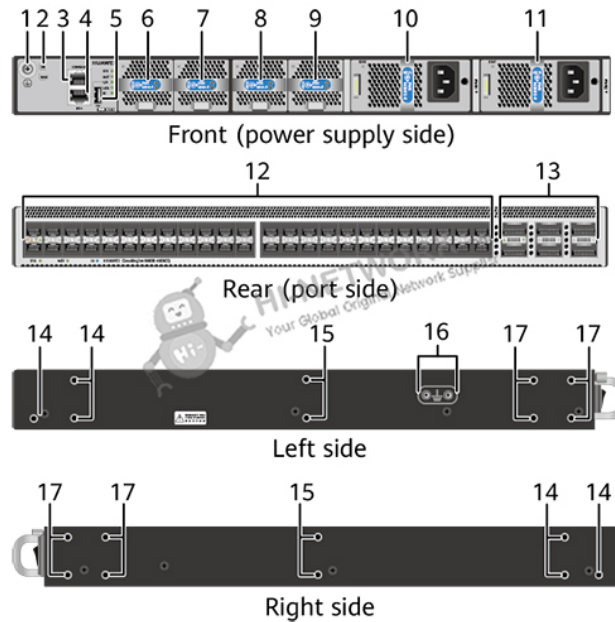**Table 1 shows the quick specification.**

Model	CE6863E-48S6CQ
Part Number	02354GCT, 02354GCT-001, 02354GCT-002, 02354GCT-004
Description	CE6863E-48S6CQ Switch (48*25GE SFP28, 6*100GE QSFP28, without fan and power modules)
Memory	4 GB
Flash memory	4 GB
Static power consumption [W]	167 W
Static heat dissipation [BTU/hour]	570 BTU/hour

Figure 1 shows the appearance of CE6863E-48S6CQ.

Product Details

Figure 2 shows the structure of CE6863E-48S6CQ.

(1)	Ground screw	(10)	Power supply slot 1
(2)	Equipment serial number (ESN)	(11)	Power supply slot 2
(3)	Console port	(12)	Forty-eight 10GE/25GE SFP28 Ethernet optical ports
(4)	ETH management port (RJ45)	(13)	Six 40GE/100GE QSFP28 Ethernet optical ports
(5)	USB port	(14)	Three port-side mounting holes for mounting brackets
(6)	Fan slot 1	(15)	Two middle mounting holes for mounting brackets
(7)	Fan slot 2	(16)	Equipotential bonding
(8)	Fan slot 3	(17)	Four power-supply-side mounting holes for mounting brackets
(9)	Fan slot 4		

Note:

Get More Information

Do you have any question about the CE6863E-48S6CQ (02354GCT, 02354GCT-001, 02354GCT-002, 02354GCT-004)?

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

Specification

CE6863E-48S6CQ Datasheet	
Model	CE6863E-48S6CQ
Part Number	02354GCT, 02354GCT-001, 02354GCT-002, 02354GCT-004
Description	CE6863E-48S6CQ Switch (48*25GE SFP28, 6*100GE QSFP28, without fan and power modules)
Dimensions with packaging (H x W x D) [mm (in.)]	175 mm x 650 mm x 550 mm (6.89 in. x 25.59 in. x 21.65 in.)
Dimensions without packaging (H x W x D) [mm (in.)]	- Basic dimensions (the depth excludes 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 446.1 mm (1.72 in. x 17.40 in. x 17.56 in.)
Weight without packaging [kg (lb)]	5.7 kg (excluding optical modules, power modules, and fan modules)
Weight without packaging (full configuration) [kg (lb)]	7.8 kg (17.2 lb) (including AC power modules and fan modules, excluding optical modules, calculated based on the heaviest model if multiple models are supported)
Weight with packaging [kg (lb)]	8.95 kg (19.73 lb)
Weight with packaging (full configuration) [kg (lb)]	11.05 kg (24.36 lb)
Chassis height [U]	1
Installation Type	Cabinet Installation
Switching capacity	To obtain data of this specification item, see the corresponding datasheet or contact the product sales personnel.
CPU	4-core, 1.4 GHz
Memory	DRAM: 4 GB
NOR Flash	64 MB
NAND Flash	4 GB
USB	Supported
Power supply mode	DC pluggable,AC pluggable,HVDC pluggable
Console port	RJ45
Downlink Service interface	48*25GE SFP28 (Note: 1. 25GE ports can be configured to work at 10 Gbit/s or 1 Gbit/s. Every four downlink 25GE ports form a group, and can be configured to work at 10 Gbit/s or 1 Gbit/s through the command; 2. 10GE LRM/80KM linear optical modules are not supported; 3. 1 m 25GE copper cables and 1 m/3 m/5 m 10GE copper cables are supported, and auto-negotiation of copper cables is not supported; 4. 25GE copper cables can only be used on stack ports and M-LAG peer-link ports.)
Uplink Service interface	6*100GE QSFP28 Note:

	1. Each 100GE QSFP28 port can be configured to work at 40 Gbit/s. 2. A 100GE QSFP28 port cannot be split into 4 x 25GE or 4 x 10GE ports. 3. 100GE and 40GE 1/3/5 m copper cables are supported, but auto-negotiation of copper cables is not supported. 100GE and 40GE copper cables can only be used on stack ports and M-LAG peer-link ports. 100G 3/5 m copper cables support only RS FEC. After the non-RS FEC mode is configured, the port enters the error-down state.
Service port supporting the stack function	25GE optical ports, and 100GE optical ports
RTC	Supported
Typical power consumption [W]	226 W (100% throughput, SFP28 high-speed cables on 48 ports and QSFP28 high-speed cables on 6 ports, dual power modules) 261 W (100% throughput, short-distance optical modules on all ports, dual power modules)
Typical heat dissipation [BTU/hour]	771 BTU/hour (100% throughput, SFP28 high-speed cables on 48 ports and QSFP28 high-speed cables on 6 ports, dual power modules) 891 BTU/hour (100% throughput, short-distance optical modules on all ports, dual power modules)
Static power consumption [W]	167 W
Static heat dissipation [BTU/hour]	570 BTU/hour
Maximum power consumption [W]	384 W
Maximum heat dissipation [BTU/hour]	1310 BTU/hour
Number of power modules	2
Redundant power supply	1+1 backup
Rated input voltage [V]	Rated AC input voltage range: 100 V AC to 240 V AC; 50/60 Hz Rated –48 V DC input voltage range: –48 V DC to –60 V DC Rated input voltage range for 600 W AC & 240 V DC: 240 V DC Rated input voltage range for 1200 W HVDC: 240 V DC to 380 V DC
Input voltage range [V]	Maximum AC input voltage range: 90 V AC to 290 V AC; 45 Hz to 65 Hz Maximum –48 V DC input voltage range: –38.4 V DC to –72 V DC Maximum input voltage range for 600 W AC & 240 V DC: 190 V DC to 290 V DC Maximum input voltage range for 1200 W HVDC: 190 V DC to 400 V DC
Maximum input current [A]	600 W AC&240 V DC power module (PAC600S12 series): - 8 A (100 V AC to 240 V AC) - 4 A (240 V DC) 1000 W DC power module (PDC1000S12 series): 30 A (–48 V DC to –60 V DC) 1200 W high-voltage DC power module (PHD1K2S12 series): 8 A
Rated output power [W]	600 W (AC&240 V HVDC) 1000 W (–48 V DC) 1200 W (380 V HVDC)
Certification	- Compliance with safety standards - Compliance with EMC standards - Compliance with environment and environmental protection standards
Power supply surge protection [kV]	AC: 6 kV in common mode and 6 kV in differential mode DC: 4 kV in common mode and 2 kV in differential mode

	HVDC: 4 kV in common mode and 2 kV in differential mode
Types of fans	Pluggable
Number of fans	4
Redundant fans	The device supports 3+1 backup of fan modules that work in hot standby mode. The system can operate properly for a short period of time after a single fan module fails. You are advised to replace the faulty fan module immediately.
Heat dissipation mode	Air cooling
Airflow direction	Front-to-back or back-to-front airflow, depending on the selected fan modules and power modules
Availability	0.9999962836
MTBF [year]	47.81 years
MTTR [hour]	1.95 hours
Noise at normal temperature (27°C, sound pressure) [dB(A)]	- Front-to-back airflow: < 58 dB(A) - Back-to-front airflow: < 57 dB(A)
Noise at high temperature (40°C, sound pressure) [dB(A)]	- Front-to-back airflow: < 75 dB(A) - Back-to-front airflow: < 74 dB(A)
Long-term operating altitude [m (ft.)]	≤ 5000 m (16404 ft.)
Long-term operating relative humidity [RH]	5% RH to 95% RH, noncondensing
Long-term operating temperature [°C (°F)]	0°C to 40°C (32°F to 104°F) at an altitude of 0–1800 m (0–5906 ft.) Note: When the altitude is 1800–5000 m (5096–16404 ft.), the highest operating temperature reduces by 1°C (1.8°F) every time the altitude increases by 220 m (722 ft.).
Storage altitude [m (ft.)]	≤ 5000 m (16404 ft.)
Storage relative humidity [RH]	5% RH to 95% RH, noncondensing
Storage temperature [°C (°F)]	–40°C to +70°C (–40°F to +158°F)

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