



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	CE6865E-48S8CQ-B
Part Number	02354CPN, 02354CPN-001, 02354CPN-003
Description	CE6865E-48S8CQ switch (48*25G SFP28, 8*100G QSFP28, 2*AC power modules, 4*fan modules, port-side intake)
Memory	4 GB
Flash memory	4 GB
Static power consumption [W]	133 W
Static heat dissipation [BTU/hour]	453 BTU/hour

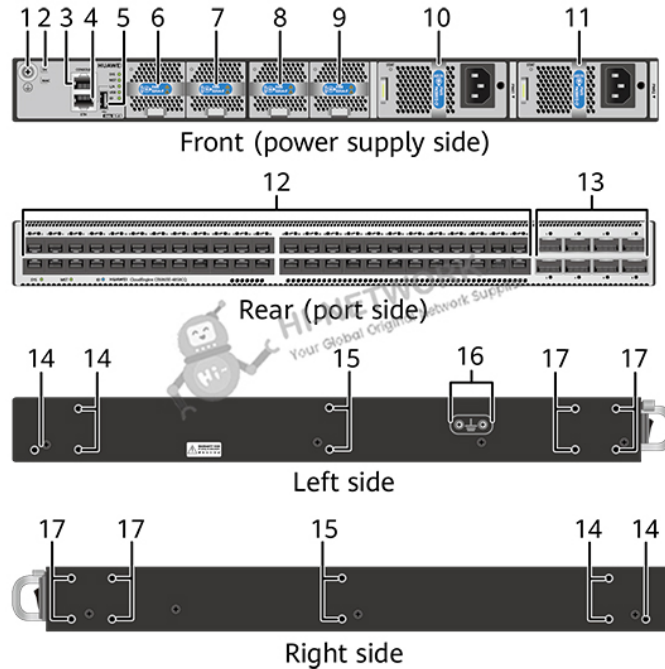
Figure 1 shows the appearance of CE6865E-48S8CQ-B.





Product Details

Figure 2 shows the structure of CE6865E-48S8CQ-B.



Note:

(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)	Eight 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		

Get More Information

Do you have any question about the CE6865E-48S8CQ-B (02354CPN, 02354CPN-001, 02354CPN-003)?

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





Specification

CE6865E-48S8CQ-B Datasheet	
Model	CE6865E-48S8CQ-B
Part Number	02354CPN, 02354CPN-001, 02354CPN-003
Description	CE6865E-48S8CQ switch (48*25G SFP28, 8*100G QSFP28, 2*AC power modules, 4*fan modules, port-side intake)
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.)]	<p>- 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.)</p> <p>- 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 446.5 mm (1.72 in. x 17.40 in. x 17.58 in.)</p>
Weight without packaging [kg (lb)]	6.2 kg (13.67 lb), excluding optical modules, power modules, and fan modules
Weight without packaging (full configuration) [kg (lb)]	8.8 kg (19.40 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)]	9.45 kg (20.83 lb)
Weight with packaging (full configuration) [kg (lb)]	11.75 kg (25.9 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	<p>48*25GE SFP28</p> <p>Note:</p> <ol style="list-style-type: none"> 1. A 25GE port works at 25 Gbit/s by default and cannot work at 1 Gbit/s or 10 Gbit/s through auto-sensing, but can be configured to work at 10 Gbit/s or 1 Gbit/s through commands. When a 25GE port is configured to work at 10 Gbit/s or 1 Gbit/s, the rate of the other three ports in the same group also needs to be switched. The rate of a single port cannot be switched independently. 2. 10GE LRM/80 km linear optical modules are not supported.





	<p>3. The 1000BASE-X auto-negotiation function is not supported. To connect the two interfaces at both ends of a link, disable the auto-negotiation function of the peer interface. After the connection, in some port failure scenarios, the interface on one end may be Up and the interface on the other end may be Down.</p> <p>4. GE copper modules cannot be installed in ports directly above or below another GE copper module.</p>
Uplink Service interface	8*100GE QSFP28 (Note: Each 100G QSFP28 port can be configured to work at 40 Gbit/s, and can be split into four 10GE or 25GE ports. After split, they cannot be used as GE ports.)
Service port supporting the stack function	25GE optical ports, and 100GE optical ports
RTC	Supported
Typical power consumption [W]	<ul style="list-style-type: none"> - 179 W (50% throughput, SFP28 high-speed cables on 48 ports and QSFP28 high-speed cables on 6 ports, dual power modules) - 232 W (50% throughput, short-distance optical modules on all ports, dual power modules)
Typical heat dissipation [BTU/hour]	<p>610 BTU/hour (100% traffic load, SFP28 high-speed cables on 48 ports and QSFP28 high-speed cables on 6 ports, dual power modules)</p> <p>791 BTU/hour (100% traffic load, short-distance optical modules on all ports, dual power modules)</p>
Static power consumption [W]	133 W
Static heat dissipation [BTU/hour]	453 BTU/hour
Maximum power consumption [W]	378 W
Maximum heat dissipation [BTU/hour]	1290 BTU/hour
Number of power modules	2
Redundant power supply	1+1 backup
Rated input voltage [V]	<ul style="list-style-type: none"> - 600 W AC&240 V DC power module: AC: 100 V AC to 240 V AC, 50/60 Hz; DC: 240 V DC - 1000 W DC power module: -48 V DC to -60 V DC - 1200 W high-voltage DC power module: 240 V DC to 380 V DC
Input voltage range [V]	<ul style="list-style-type: none"> - 600 W AC&240 V DC power module: AC: 90 V AC to 290 V AC, 45 Hz to 65 Hz; DC: 190 V DC to 290 V DC - 1000 W DC power module: -38.4 V DC to -72 V DC - 1200 W high-voltage DC power module: 190 V DC to 400 V DC
Maximum input current [A]	<ul style="list-style-type: none"> - 600 W AC&240 V DC power module: 8 A (100 V AC to 240 V AC); 4 A (240 V DC) - 1000 W DC power module: 30 A (-48 V DC to -60 V DC) - 1200 W high-voltage DC power module: 8 A
Rated output power [W]	<ul style="list-style-type: none"> - 600 W AC&240 V DC power module: 600 W - 1000 W DC power module: 1000 W - 1200 W high-voltage DC power module: 1200 W
Certification	<ul style="list-style-type: none"> - 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	0.9999966836
MTBF [year]	36.9 years
MTTR [hour]	1.85 hours
Noise at normal temperature (27°C, sound pressure) [dB(A)]	Front-to-back airflow: 49.8 dB(A) on average (maximum: 53.6 dB(A)) Back-to-front airflow: 47.8 dB(A) on average (maximum: 51.2 dB(A))
Noise at high temperature (40°C, sound pressure) [dB(A)]	Front-to-back airflow: 67.6 dB(A) on average (maximum: 73.4 dB(A)) Back-to-front airflow: 68 dB(A) on average (maximum: 75.4 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% to 95% RH, non-condensing
Storage temperature [°C (°F)]	-40°C to +70°C (-40°F to +158°F)

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Datasheet

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