

## 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	CE6865-48S8CQ-EI
Part Number	02351RFC
Description	CE6865-48S8CQ-EI Switch (48-Port 25GE SFP28, 8*100GE QSFP28, Without Fan and Power Module)
Memory	4 GB
Flash memory	2 GB
Static power consumption [W]	182 W
Static heat dissipation [BTU/hour]	621 BTU/hour

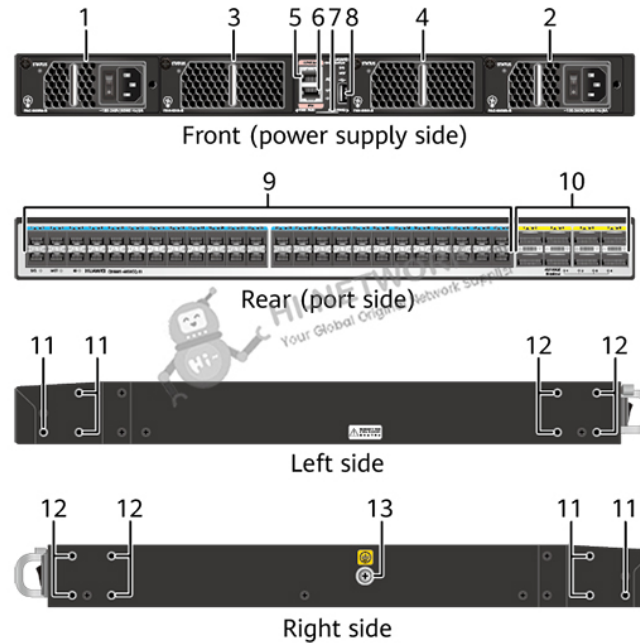
Figure 1 shows the appearance of CE6865-48S8CQ-EI.





## Product Details

Figure 2 shows the structure of CE6865-48S8CQ-EI.



Note:

(1)	Power supply slot 1	(8)	USB port
(2)	Power supply slot 2	(9)	Forty-eight 10GE/25GE SFP28 Ethernet optical ports
(3)	Fan slot 1	(10)	Eight 40GE/100GE QSFP28 Ethernet optical ports
(4)	Fan slot 2	(11)	Three port-side mounting holes for mounting brackets
(5)	Console port	(12)	Four power-supply-side mounting holes for mounting brackets
(6)	ETH management port (RJ45)	(13)	Ground screw
(7)	Barcode label		

## Get More Information

Do you have any question about the CE6865-48S8CQ-EI (02351RFC)?

Contact us now via [info@hi-network.com](mailto:info@hi-network.com).





## Specification

CE6865-48S8CQ-EI Datasheet	
Model	CE6865-48S8CQ-EI
Part Number	02351RFC
Description	CE6865-48S8CQ-EI Switch (48-Port 25GE SFP28, 8*100GE QSFP28, Without Fan and Power Module)
Dimensions without packaging (H x W x D) [mm (in.)]	43.6 mm x 442 mm x 420 mm (1.72 in. x 17.40 in. x 16.54 in.)
Weight without packaging [kg (lb)]	6.2 kg (13.67 lb)
Weight without packaging (full configuration) [kg (lb)]	8.8 kg (19.40 lb) (with two power modules and two fan modules, calculated based on the heaviest model if multiple models are supported)
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	8-core, 1.5 GHz
Memory	DRAM: 4 GB
NOR Flash	32MB
NAND Flash	2GB
USB	Supported
Power supply mode	DC pluggable, AC pluggable
Console port	RJ45
Downlink Service interface	48*25GE SFP28 Note: 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. 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.
Uplink Service interface	8*40GE/100GE QSFP28
Service port supporting the stack function	25GE and 100GE optical ports
RTC	Supported





Typical power consumption [W]	259 W (100% throughput, SFP28 cables on 48 ports and QSFP28 cables on 8 ports, double power modules)
Typical heat dissipation [BTU/hour]	884 BTU/hour (100% traffic load, SFP28 high-speed cables on 48 ports and QSFP28 high-speed cables on 8 ports, dual power modules)
Static power consumption [W]	182 W
Static heat dissipation [BTU/hour]	621 BTU/hour
Maximum power consumption [W]	420 W
Maximum heat dissipation [BTU/hour]	1433 BTU/hour
Number of power modules	2
Redundant power supply	1+1 backup
Rated input voltage [V]	350 W DC power module: -48 V DC to -60 V DC 600 W AC&240 V DC power module: 100 V AC to 240 V AC, 50/60 Hz; 240 V DC 600 W DC power module: -48 V DC to -60 V DC
Input voltage range [V]	350 W DC power module: -38.4 V DC to -72 V DC 600 W AC&240 V DC power module: 90 V AC to 290 V AC, 45 Hz to 65 Hz; 240 V DC 600 W DC power module: -38.4 V DC to -72 V DC
Maximum input current [A]	350 W DC power module: 11 A 600 W AC power module: 100 V AC to 240 V AC, 9 A 600 W DC power module: -48 V DC to -60 V DC, 20 A
Rated output power [W]	- 350 W DC power module: 350 W - 600 W AC power module: 600 W - 600 W DC power module: 600 W
Maximum output power [W]	- 350 W DC power module: 350 W - 600 W AC power module: 600 W - 600 W DC power module: 600 W
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: 2 kV in common mode and 1 kV in differential mode
Types of fans	Pluggable
Number of fans	4
Redundant fans	1+1 backup not supported
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	0.999997178
MTBF [year]	38.85 years
MTTR [hour]	1.48 hours
Noise at normal temperature (27°C, sound)	Back-to-front airflow: < 65 dB(A)





pressure) [dB(A)]	Front-to-back airflow: < 65 dB(A)
Noise at high temperature (40°C, sound pressure) [dB(A)]	Front-to-back airflow: 69 dBA in average (maximum: 73 dBA) Back-to-front airflow: 67 dBA in average (maximum: 72 dBA)
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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