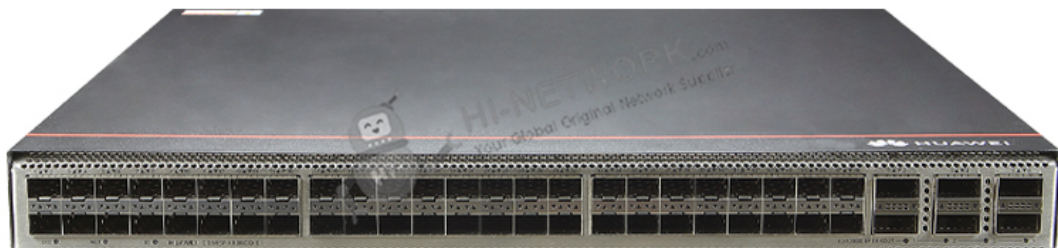# Overview

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

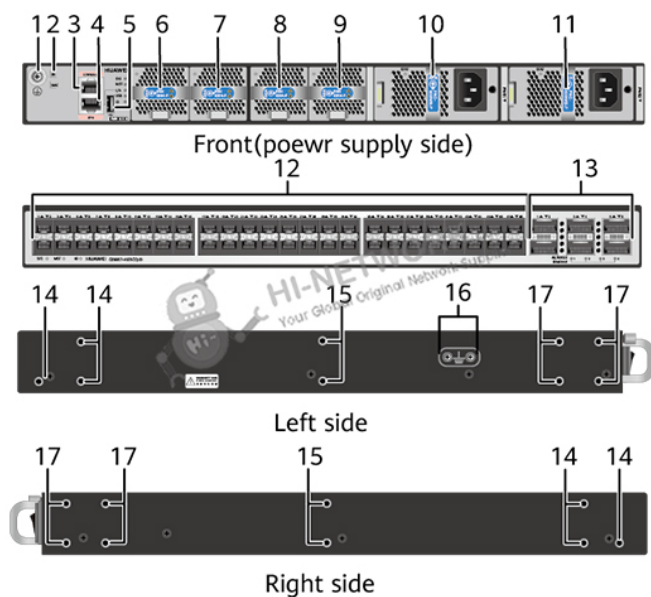**Table 1 shows the quick specification.**

Model	CE6857-EI-B-B0B
Part Number	02352CHR
Description	CE6857-48S6CQ-EI switch (48*10GE SFP+, 6*100GE QSFP28, 2*AC power modules, 4*fan modules, port-side intake)
Memory	4 GB
Flash memory	2 GB
Typical power consumption	152 W (100% traffic load, SFP+ high-speed cables on 48 ports and QSFP28 high-speed cables on 6 ports, dual power modules) 195 W (100% traffic load, short-distance optical modules on all ports, normal temperature, dual power modules)
Typical heat dissipation	519 BTU/hour (100% traffic load, SFP+ high-speed cables on 48 ports and QSFP28 high-speed cables on 6 ports, dual power modules) 665 BTU/hour (100% traffic load, short-distance optical modules on all ports, dual power modules)

Figure 1 shows the appearance of CE6857-EI-B-B0B.

Product Details

Figure 2 shows the structure of CE6857-EI-B-B0B.

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 SFP+ 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 junction	
(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 CE6857-EI-B-B0B (02352CHR)?

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Specification

CE6857-EI-B-B0B Datasheet	
Model	CE6857-EI-B-B0B
Part Number	02352CHR
Description	CE6857-48S6CQ-EI switch (48*10GE SFP+, 6*100GE QSFP28, 2*AC power modules, 4*fan modules, port-side intake)
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)]	5.3 kg (11.68 lb)
Weight without packaging (full configuration) [kg (lb)]	7.6 Kg (16.76 lb) (with two power modules and four 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	4-core, 1.4 GHz
Memory	DRAM: 4 GB
NOR Flash	64 MB
NAND Flash	2GB
USB	Supported
Power supply mode	DC pluggable, AC pluggable
Console port	RJ45
Downlink Service interface	48 x 10GE SFP+ (10GE LRM/80 km linear optical modules are not supported. In addition, 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	6*40GE/100GE QSFP28
Service port supporting the stack function	10GE optical ports, 40GE optical ports, and 100GE optical ports
RTC	Supported
Typical power consumption [W]	152 W (100% traffic load, SFP+ high-speed cables on 48 ports and QSFP28 high-speed cables on 6 ports, dual power modules) 195 W (100% traffic load, short-distance optical modules on all ports, normal temperature, dual power modules)
Typical heat dissipation [BTU/hour]	519 BTU/hour (100% traffic load, SFP+ high-speed cables on 48 ports and QSFP28 high-speed cables on 6 ports, dual power modules) 665 BTU/hour (100% traffic load, short-distance optical modules on all ports, dual power

	modules)
Static power consumption [W]	101 W
Static heat dissipation [BTU/hour]	345 BTU/hour
Maximum power consumption [W]	287 W
Maximum heat dissipation [BTU/hour]	979 BTU/hour
Number of power modules	2
Redundant power supply	1+1 backup
Rated input voltage [V]	600 W AC power module: 100 V AC to 240 V AC, 50/60 Hz 350 W DC power module: –48 V DC to –60 V DC
Input voltage range [V]	- 600 W AC&240 V DC power module: AC: 90 V AC to 290 V AC, 45 Hz to 65 Hz; - 350 W DC power module: -38.4 V DC to -72 V DC
Maximum input current [A]	- 600 W AC power module: 100 V AC to 240 V AC, 9 A - 350 W DC power module: –48 V DC to –60 V DC, 11 A
Rated output power [W]	- 600 W AC power module: 600 W - 350 W DC power module: 350 W
Maximum output power [W]	- 600 W AC power module: 600 W - 350 W DC power module: 350 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: 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	0.99999576002
MTBF [year]	45.3 years
MTTR [hour]	1.68 hours
Noise at normal temperature (27°C, sound pressure) [dB(A)]	Back-to-front airflow: < 53 dB(A) Front-to-back airflow: < 52 dB(A)
Noise at high temperature (40°C, sound pressure) [dB(A)]	Front-to-back airflow: 69 dBA on average (maximum: 76dBA) Back-to-front airflow: 67 dBA on average (maximum: 72dBA)
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	0°C to 40°C (32°F to 104°F) at an altitude of 0-1800 m (0-5906 ft.)

(°F)]	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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