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	CE6857F-48S6CQ-B
Part Number	02354HPY, 02354HPY-001, 02355MST
Description	CE6857F-48S6CQ switch (48*10GE SFP+, 6*100GE QSFP28, 2*AC power modules, 4*fan modules, port-side intake)
Memory	4 GB
Flash memory	4 GB
Static power consumption [W]	106 W
Static heat dissipation [BTU/hour]	362 BTU/hour

Figure 1 shows the appearance of CE6857F-48S6CQ-B.

Product Details

Figure 2 shows the structure of CE6857F-48S6CQ-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 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 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 CE6857F-48S6CQ-B (02354HPY, 02354HPY-001, 02355MST)?
Contact us now via info@hi-network.com.

Specification

CE6857F-48S6CQ-B Datasheet	
Model	CE6857F-48S6CQ-B
Part Number	02354HPY, 02354HPY-001, 02355MST
Description	CE6857F-48S6CQ switch (48*10GE SFP+, 6*100GE 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.)]	- 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)]	5.5 kg (12.1 lb) (excluding optical modules, power modules, and fan modules)
Weight without packaging (full configuration) [kg (lb)]	7.75 kg (17.1 lb) (including AC power modules and fan modules, excluding optical modules)
Weight with packaging [kg (lb)]	8.75 kg (19.3 lb)
Weight with packaging (full configuration) [kg (lb)]	11 kg (24.3 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 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*100GE QSFP28 (Note: 1. Each 100GE QSFP28 port can be used as a 40GE port. 2. A 100GE QSFP28 port cannot be split into 4x25GE and 4x10GE ports.)
Service port supporting the stack function	10GE optical ports and 100GE optical ports
RTC	Supported
Typical power consumption [W]	- 148 W (50% throughput, SFP+ high-speed cables on 48 ports and QSFP28 high-speed cables on 6 ports, dual power modules) - 185 W (50% throughput, short-distance optical modules on all optical ports, dual power modules)
Typical heat dissipation [BTU/hour]	- 505 BTU/hour (50% throughput, SFP+ high-speed cables on 48 ports and QSFP28 high-speed cables on 6 ports, dual power modules) - 631 BTU/hour (50% throughput, short-distance optical modules on all optical ports, dual power modules)
Static power consumption [W]	106 W
Static heat dissipation [BTU/hour]	362 BTU/hour
Maximum power consumption [W]	318 W
Maximum heat dissipation [BTU/hour]	1085 BTU/hour
Number of power modules	2
Redundant power supply	1+1 backup
Rated input voltage [V]	- 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]	- 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]	- 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]	- 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	- Safety standards compliance - EMC standards compliance - Environmental standards compliance
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	Port-side air intake or port-side air exhaust, depending on the fan modules and power modules that are used. The fan modules and power modules must have the same airflow direction.
Availability	0.9999961836
MTBF [year]	49.35 years
MTTR [hour]	1.65 hours
Noise at normal temperature (27°C, sound pressure) [dB(A)]	- Front-to-back airflow: average 50 dBA (maximum: 54 dBA) - Back-to-front airflow: average 53 dBA (maximum: 57 dBA)
Noise at high temperature (40°C, sound pressure) [dB(A)]	- Front-to-back airflow: average 69 dBA (maximum: 73 dBA) - Back-to-front airflow: average 72 dBA (maximum: 77 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 to 1800 m (0 to 5906 ft.) Note: When the altitude is between 1800 m and 5000 m (5906 ft. and 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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