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

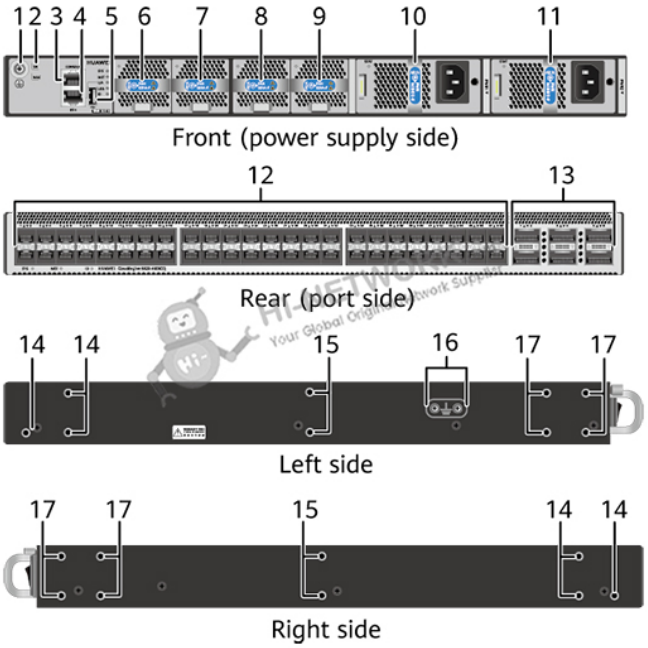
Table 1 shows the quick specification.

Model	CE6820-48S6CQ-F
Part Number	02352TLJ
Description	CE6820-48S6CQ-F switch (48*10G SFP+, 6*100GE QSFP28, 2*AC power modules, 4*fan modules, port-side exhaust)
Dimensions (H x W x D)	43.6 mm x 442.0 mm x 446.1 mm (1.72 in. x 17.40 in. x 17.56 in.)
Weight	9 kg (19.84 lb)
Maximum power consumption	282 W
Maximum heat dissipation	962 BTU/hour

Figure 1 shows the appearance of CE6820-48S6CQ-F.

Product Details

Figure 2 shows the structure of CE6820-48S6CQ-F.



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 CE6820-48S6CQ-F (02352TLJ)?

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Specification

CE6820-48S6CQ-F Datasheet	
Model	CE6820-48S6CQ-F
Part Number	02352TLJ
Description	CE6820-48S6CQ-F switch (48*10G SFP+, 6*100GE QSFP28, 2*AC power modules, 4*fan modules, port-side exhaust)
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)]	5.6 kg (excluding optical modules, power modules, and fan modules)
Weight without packaging (full configuration) [kg (lb)]	7.7 kg (17.0 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 kg (19.84 lb), excluding optical modules, power modules, and fan modules
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, HVDC pluggable
Console port	RJ45
Downlink Service interface	48*10GE SFP+ (Note: 1. 10GE interfaces are compatible with GE; 2. The interfaces do not support 10GE LRM/80KM linear optical modules)
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 1 m copper cables 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.

Service port supporting the stack function	10GE optical ports, and 100GE optical ports
RTC	Supported
Typical power consumption [W]	- 162 W (100% throughput, SFP+ high-speed cables on 48 ports and QSFP28 high-speed cables on 6 ports, dual power modules) - 196 W (100% throughput, short-distance optical modules on all ports, dual power modules)
Typical heat dissipation [BTU/hour]	- 553 BTU/hour (100% traffic load, SFP+ high-speed cables on 48 ports and QSFP28 high-speed cables on 6 ports, dual power modules) - 669 BTU/hour (100% traffic load, short-distance optical modules on all ports, dual power modules)
Static power consumption [W]	102 W
Static heat dissipation [BTU/hour]	348 BTU/hour
Maximum power consumption [W]	282 W
Maximum heat dissipation [BTU/hour]	962 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: 100 V AC to 240 V AC, 50/60 Hz; 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: 90 V AC to 290 V AC, 45 Hz to 65 Hz; 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
Maximum 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	- 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 fan modules	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	0.99999618
MTBF [year]	45.48 years
MTTR [hour]	1.52 hours
Noise at normal temperature (27°C, sound pressure) [dB(A)]	- Front-to-back airflow: < 55 dB(A) - Back-to-front airflow: < 56 dB(A)
Noise at high temperature (40°C, sound pressure) [dB(A)]	- Front-to-back airflow: < 71 dB(A) - Back-to-front airflow: < 72 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 temperature [°C (°F)]	-40°C to +70°C (-40°F to +158°F)

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