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Overview

A series of high port density switches, CloudEngine 8800 brings a combination of both high performance and low latency to cloud-oriented data center networks and high-end campus networks alike. Additionally, the series supports an extensive range of data center features, Software-Defined Networking (SDN) capabilities, and high performance stacking technologies. With 10, 25, 40, 100, 200, and 400 GE ports, as well as flexible plug-in cards, CloudEngine 8800 is well suited for both the core and aggregation layers. The series is also compatible with CloudEngine 16800, 12800, 6800, and 5800 series switches, helping enterprises build networks that are scalable, simplified, open — and secure.

Quick Specification

Table 1 shows the quick specification.

Model	CE8850E-32CQ-EI-B	
Part Number	02354LHX, 02354LHX-001	
Description	CE8850E-32CQ-EI Switch (32*100GE QSFP28, 1*10GE SFP+, 2*AC power module, 4*fan	
	module, port-side intake)	
Memory	4 GB	
Flash memory	4 GB	
Static power consumption [W]	165 W	
Static heat dissipation [BTU/hour]	563 BTU/hour	

Figure 1 shows the appearance of CE8850E-32CQ-EI-B.

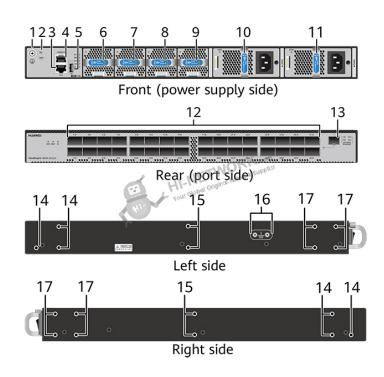






Product Details

Figure 2 shows the structure of CE8850E-32CQ-EI-B.



Note:

Note.			
(1)	Ground screw	(10)	Power supply slot 1
(2)	Equipment serial number (ESN)	(11)	Power supply slot 2
(3)	ETH management port (RJ45)	(12)	Thirty-two 40GE/100GE SFP28 Ethernet optical ports
(4)	Console port	(13)	One 10GE SFP+ 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 CE8850E-32CQ-EI-B (02354LHX, 02354LHX-001)? Contact us now via info@hi-network.com.



Datasheet

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Specification

CE8850E-32CQ-EI-B Datasheet				
Model	CE8850E-32CQ-EI-B			
Part Number	02354LHX, 02354LHX-001			
Description	CE8850E-32CQ-EI Switch (32*100GE QSFP28, 1*10GE SFP+, 2*AC power module,			
Description	4*fan module, 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.)			
	- Basic dimensions (the depth excludes the parts protruding from the body): 43.6 mm x			
Dimensions without packaging (H x W x	442.0 mm x 420.0 mm (1.72 in. x 17.40 in. x 16.54 in.)			
D) [mm (in.)]	- Maximum dimensions (the depth is the distance from ports on the front panel to the			
71 ()1	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.)			
Weight without packaging [kg (lb)]	6.0 kg (13.23 lb) (excluding optical modules, power modules, and fan modules)			
Weight without packaging (full	8.6 kg (18.96 lb) (including AC power modules and fan modules, excluding optical			
configuration) [kg (lb)]	modules, calculated based on the heaviest model if multiple models are supported)			
Weight with packaging [kg (lb)]	9.3 kg (20.50 lb)			
Weight with packaging (full	11 (1 (25.57.11)			
configuration) [kg (lb)]	11.6 kg (25.57 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			
	32 x 100GE QSFP28 ports and 1 x 10GE SFP+ port, regardless of the direction (uplink			
	or downlink)			
	Note:			
Downlink Comics interfess	1. 100GE ports except port 23 can be split into 4 x 25GE or 4 x 10GE ports. After the			
Downlink Service interface	split, they cannot be used as GE ports.			
	2. Splitting 100GE port 23, using 10GE port 1, and configuring IOAM are mutually			
	exclusive. 100GE port 23 supports only static split, and the device needs to be restarted			
	for the split to take effect.			



CE8850E-32CQ-EI-B (02354LHX/-001)

Datasheet

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4. Supported optical modules: (1) In the case of port-side air intiake, 100CE ports support 100G- ACC/SR4/DR/LR44WDM optical modules. (2) In the case of port-side air exhaust, 100GE ports support 100G-AOC/SR4/DR/LR4 optical modules. Service port supporting the stack function RTC Supported 203 W (100% traffic load, copper cables on half of ports, normal temperature, dual AC power modules) 244 W (100% traffic load, short-distance optical modules on half of ports, normal temperature, dual AC power modules) 693 BTU/hour (100% traffic load, short-distance optical modules on half of ports, normal temperature, dual AC power modules) 833 BTU/hour (100% traffic load, short-distance optical modules on half of ports, normal temperature, dual AC power modules) 833 BTU/hour (100% traffic load, short-distance optical modules on half of ports, normal temperature, dual AC power modules) 833 BTU/hour (100% traffic load, short-distance optical modules on half of ports, normal temperature, dual AC power modules) 833 BTU/hour (100% traffic load, long-distance optical modules on all ports, normal temperature, dual AC power modules) 845 W (100% traffic load, long-distance optical modules on all ports, normal temperature, dual AC power modules) 1155 BTU/hour (100% traffic load, long-distance optical modules on all ports, normal temperature, dual AC power modules) 1155 BTU/hour (100% traffic load, long-distance optical modules on all ports, normal temperature, dual AC power modules) 1155 BTU/hour (100% traffic load, long-distance optical modules on all ports, normal temperature, dual AC power modules) 1155 BTU/hour (100% traffic load, long-distance optical modules on all ports, normal temperature, dual AC power modules) 125 BTU/hour (100% traffic load, long-distance optical modules on all ports, normal temperature, dual AC power modules) 126 W (100% traffic load, long-distance optical modules on all ports, normal temperature, dual AC power modules) 127 BTU/hour (100% traffic load, long-distance optical modules on all		3. The 10GE SFP+ port can function as a GE SFP optical/electrical port.	
AOC/SR4/DR/LR4/4WDM optical modules. (2) In the case of port-side air exhaust, 100GE ports support 10MG-AOC/SR4/DR/LR4 optical modules. Service port supporting the stack function RTC Supported 203 W (100% traffic load, copper cables on half of ports, normal temperature, dual AC power modules) 244 W (100% traffic load, short-distance optical modules on half of ports, normal temperature, dual AC power modules) 693 BTU/hour (100% traffic load, short-distance optical modules on half of ports, normal temperature, dual AC power modules) Static power consumption [W] Static power consumption [W] Static heat dissipation [BTU/hour] Maximum power consumption [W] Maximum power consumption [W] Maximum power consumption [W] Maximum heat dissipation [BTU/hour] Maximum heat dissipation [BTU/hour] Maximum power consumption [W] Maximum heat dissipation [BTU/hour] Maximum heat dissipation		4. Supported optical modules:	
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Service port supporting the stack function RTC Supported 203 W (100% traffic load, copper cables on half of ports, normal temperature, dual AC power modules) Power modules 424 W (100% traffic load, short-distance optical modules on half of ports, normal temperature, dual AC power modules) 428 BTU/hour (100% traffic load, short-distance optical modules on half of ports, normal temperature, dual AC power modules) 823 BTU/hour (100% traffic load, short-distance optical modules on half of ports, normal temperature, dual AC power modules) Static power consumption [W] 545 W (100% traffic load, short-distance optical modules on half of ports, normal temperature, dual AC power modules) Static heat dissipation [BTU/hour] 563 BTU/hour (100% traffic load, short-distance optical modules on all ports, normal temperature, dual AC power modules) 450 W (100% traffic load, short-distance optical modules on all ports, normal temperature, dual AC power modules) 1157 BTU/hour (100% traffic load, short-distance optical modules on all ports, normal temperature, dual AC power modules) 1158 BTU/hour (100% traffic load, short-distance optical modules on all ports, normal temperature, dual AC power modules) 1157 BTU/hour (100% traffic load, short-distance optical modules on all ports, normal temperature, dual AC power modules) 1157 BTU/hour (100% traffic load, short-distance optical modules on all ports, normal temperature, dual AC power modules) 1158 BTU/hour (100% traffic load, short-distance optical modules on all ports, normal temperature, dual AC power modules) 1158 BTU/hour (100% traffic load, short-distance optical modules on all ports, normal temperature, dual AC power modules) 1158 BTU/hour (100% traffic load, short-distance optical modules on all ports, normal temperature, dual AC power modules) 1159 BTU/hour (100% traffic load, short-distance optical modules on all ports, normal temperature, dual AC power modules) 1159 BTU/hour (100% traffic load, short-distance optical modules on all ports, normal temper		AOC/SR4/DR/LR4/4WDM optical modules.	
Service port supporting the stack function 100GE optical port		(2) In the case of port-side air exhaust, 100GE ports support 100G-AOC/SR4/DR/LR4	
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Static power consumption [W] Static heat dissipation [BTU/hour] Maximum power consumption [W] Maximum heat dissipation [BTU/hour] Maximum input voltage [V] Maximum input current [A] Maximum input current [A] Static heat dissipation [BTU/hour] Static heat dissipation [BTU/hour] Static heat dissipation [BTU/hour] Static heat dissipation [BTU/hour] Maximum input current [A] Static heat dissipation [BTU/hour] Static	T : 11 (1: : : : : : : : : : : : : : : :	dual AC power modules)	
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Maximum power consumption [W] 450 W (100% traffic load, long-distance optical modules on all ports, 40°C or 104°F, dual AC power modules) 1157 BTU/hour (100% traffic load, short-distance optical modules on all ports, normal temperature, dual AC power modules) 1535 BTU/hour (100% traffic load, long-distance optical modules on all ports, 40°C or 104°F, dual AC power modules) Number of power modules 2 Redundant power supply 1+1 backup - 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 - 600 W AC&240 V DC power module: AC: 90 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 - 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 - 600 W AC&240 V DC power module: 600 W		339 W (100% traffic load, short-distance optical modules on all ports, normal	
450 W (100% traffic load, long-distance optical modules on all ports, 40°C or 104°F, dual AC power modules) 1157 BTU/hour (100% traffic load, short-distance optical modules on all ports, normal temperature, dual AC power modules) 1535 BTU/hour (100% traffic load, long-distance optical modules on all ports, 40°C or 104°F, dual AC power modules) Number of power modules 2 Redundant power supply 1+1 backup - 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 - 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: 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 - 600 W AC&240 V DC power module: 8 A		temperature, dual AC power modules)	
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1535 BTU/hour (100% traffic load, long-distance optical modules on all ports, 40°C or 104°F, dual AC power modules) Redundant power supply 1+1 backup - 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 - 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 - 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 - 600 W AC&240 V DC power module: 600 W	Maria de la companya della companya della companya della companya de la companya della companya	temperature, dual AC power modules)	
Number of power modules 2	Maximum heat dissipation [BTU/hour]	1535 BTU/hour (100% traffic load, long-distance optical modules on all ports, 40°C or	
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V DC	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	
- 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 - 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 - 600 W AC&240 V DC power module: 8 A (100 V AC to 240 V AC); 4 A (240 V DC) Maximum input current [A] - 600 W AC&240 V DC power module: 8 A - 600 W AC&240 V DC power module: 8 A	D . 1	V DC	
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Maximum input current [A] - 1000 W DC power module: 30 A (-48 V DC to -60 V DC) - 1200 W high-voltage DC power module: 8 A - 600 W AC&240 V DC power module: 600 W		- 1200 W high-voltage DC power module: 190 V DC to 400 V DC	
- 1200 W high-voltage DC power module: 8 A - 600 W AC&240 V DC power module: 600 W		- 600 W AC&240 V DC power module: 8 A (100 V AC to 240 V AC); 4 A (240 V DC)	
- 600 W AC&240 V DC power module: 600 W	Maximum input current [A]	- 1000 W DC power module: 30 A (–48 V DC to –60 V DC)	
		- 1200 W high-voltage DC power module: 8 A	
Poted output nowar IWI		- 600 W AC&240 V DC power module: 600 W	
Rated output power [w] - 1000 w DC power module: 1000 w	Rated output power [W]	- 1000 W DC power module: 1000 W	
- 1200 W high-voltage DC power module: 1200 W		- 1200 W high-voltage DC power module: 1200 W	
- Compliance with safety standards	C vic vi	- Compliance with safety standards	
Certification - Compliance with EMC standards	Сегинсаноп	- Compliance with EMC standards	



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	- Compliance with environment and environmental protection standards	
	AC: 6 kV in common mode and 6 kV in differential mode	
Power supply surge protection [kV]	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	
	The device supports 3+1 backup of fan modules that work in hot standby mode. The	
Redundant fans	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	
At G P C	Front-to-back or back-to-front airflow, depending on the selected fan modules and power	
Airflow direction	modules	
Availability	0.999993932	
MTBF [year]	35.88 years	
MTTR [hour]	1.89 hours	
Noise at normal temperature (27°C, sound	Front-to-back airflow: 49.8 dB(A) on average (maximum: 53.6 dB(A))	
pressure) [dB(A)]	Back-to-front airflow: 47.8 dB(A) on average (maximum: 51.2 dB(A))	
Noise at high temperature (40°C, sound	Front-to-back airflow: 67.6 dB(A) on average (maximum: 73.4 dB(A))	
pressure) [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	5% RH to 95% RH, noncondensing	
[RH]		
Long-term operating temperature [°C	$0^{\circ}C$ to $40^{\circ}C$ (32°F to $104^{\circ}F)$ 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	
(F)]	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 relative number [KII]	,	

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