



# **Huawei CloudEngine 8800 Switch Ordering Guide**



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# 1 CloudEngine 8800 Product Overview

The CE8800 is the next-generation data center TOR switch designed for enterprise data centers and campus networks. It can be used by various network operators, institutions, and enterprises, such as China Telecom, CNC, China Mobile, China Unicom, SARFT, China TieTong, banks, police stations, tax stations, schools, and global data communications markets. The CE8800 can be sold with Huawei broadband products, routers, and transport products.

The CE8800 uses the integrated chassis design and provides one device model in V100R006: CE8860-4C-EI.

The following table lists the CE8860-4C-EI configuration.

Description	Specifications	
Service port	The CE8860-4C-EI does not provide fixed ports and provides four card slots supporting the following types of cards: <ol style="list-style-type: none"><li>1. 8x100G QSFP28: The 100GE ports are downward compatible with 40GE ports. Each 100GE port can be split into four 25GE or 10GE ports.</li><li>2. 16x40G QSFP+: Each 40GE QSFP+ port can be split into two 10GE ports.</li><li>3. 24x10G RJ45 + 2x100G QSFP28: The 100GE ports are downward compatible with 40GE ports. Each 100GE port can be split into four 25GE or 10GE ports.</li><li>4. 24x25G SFP28 + 2x100G QSFP28: The 25GE ports are downward compatible with 10GE ports. The 100GE ports are downward compatible with 40GE ports. Each 100GE port can be split into four 25GE or 10GE ports.</li></ol>	
Management port	Two 10/100/1000M RJ45 management network ports, one RS-232 serial port, one MiniUSB port (multiplexed with the RS-232 serial port), and one USB port	
Power supply	Two power modules working in 1+1 backup mode and supporting hot swapping	
Power consumption	Static power consumption	Configured with four CE88-D24S2CQ cards: 335 W Configured with four CE88-D24T2CQ cards: 327 W Configured with four CE88-D16Q cards: 272 W Configured with four CE88-D8CQ cards: 341 W
	Typical power consumption	Configured with four CE88-D24S2CQ cards: 399 W Configured with four CE88-D24T2CQ cards: 522 W

Description	Specifications	
		Configured with four CE88-D16Q cards: 340 W Configured with four CE88-D8CQ cards: 355 W (100% traffic load, all copper cables inserted into the ports, normal temperature, double power modules) Configured with four CE88-D24S2CQ cards: 410 W Configured with four CE88-D24T2CQ cards: 528 W Configured with four CE88-D16Q cards: 421 W Configured with four CE88-D8CQ cards: 459 W (100% traffic load, all short-distance optical modules inserted into the ports, normal temperature, double power modules)
	Maximum power consumption	Configured with four CE88-D24S2CQ cards: 602 W Configured with four CE88-D24T2CQ cards: 750 W Configured with four CE88-D16Q cards: 585 W Configured with four CE88-D8CQ cards: 625 W
Fan assembly	Two fan assemblies supporting hot swapping Heat dissipation: front-to-back or back-to-front airflow Front-to-back airflow: Air flows from the fan side to the port side. Back-to-front airflow: Air flows from the port side to the fan side. The device heat dissipation system is selected depending on the airflow direction of used power modules and fan modules.  <b>NOTE</b> The power modules and fan modules must have the same airflow direction. That is, on the same device, the models of the two fan modules must be consistent and the models of the two power modules must be consistent.	
Others	ID indicator	

## 2 Basic Configurations

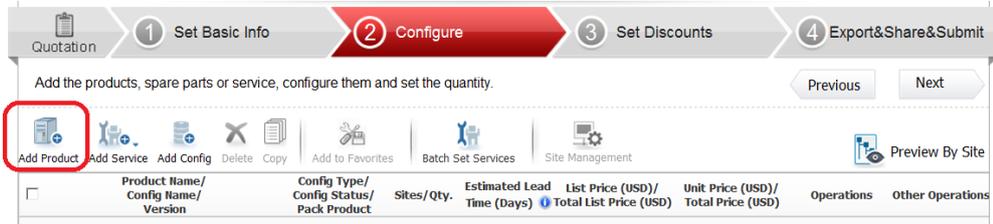
The CE8800 configuration procedure is as follows:

1. Select the CE8800 model.
2. Select the bundle, and power cable type.
3. Select the interface card.
4. Select function license.
5. Select optical modules, optical fibers, optical cable assemblies, and high-speed cables.
6. Select other components.

The following describes the configuration of each step.

## 2.1 Selecting the CE8800 Model

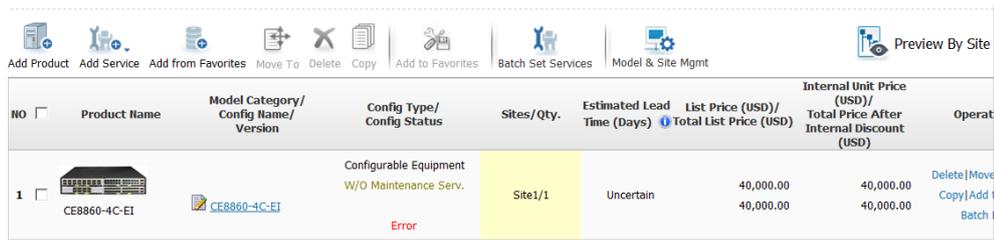
**Step 1** On the SCT home page, select **My Quotations**. Create a quotation, set basic information and save it, and click **Next**.



**Step 2** Click **Add Product**. In the check box that is displayed, select the desired model.

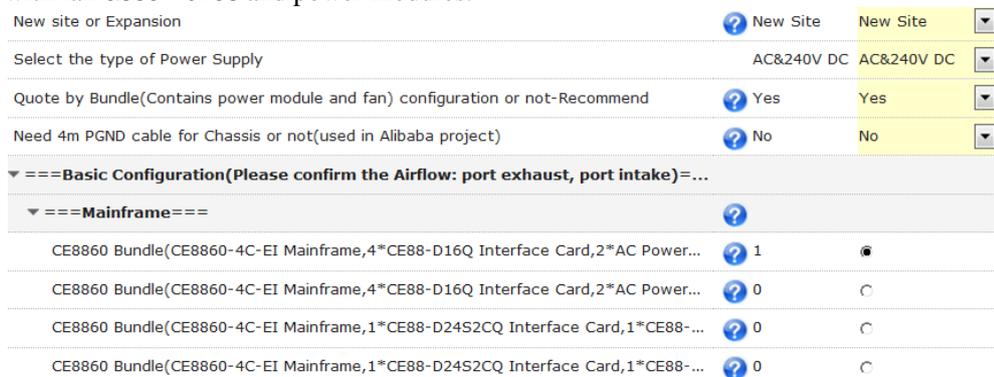


**Step 3** Click the configuration name of the model. The **Product Parameter** tab page is displayed.



## 2.2 Performing Basic Configuration

**Step 1** On the **Product Parameter** tab page, select a bundle, Recommended selecting bundle with fan assemblies and power modules.



**Step 2** Select proper power modules based on the customer equipment room requirements. **Skip this step when configuring the bundle.**

▼ ===Mainframe===		
CE8860-4C-EI Mainframe(With 4 Subcard Slots,Without FAN Box,Without Power Mod...	?	0
▼ ===Fan Box&Power===		
Fan box(F,FAN panel side intake )	?	0
Fan box(B,FAN panel side exhaust)	?	0
1200W AC&240V DC Power Module(Power panel side intake)	?	0
1200W AC&240V DC Power Module(Power panel side exhaust)	?	0

- The CE8800 series switches use Port-side exhaust or Port-side intake airflow design. Power modules (with fans) and fan boxes on a switch must have the same airflow direction.
- Power module types:  
The CE8860-4C-EI supports 1200W AC&240V DC and 1200W HVDC.  
The power modules in 1+1 backup mode are recommended.

**Step 3** Select power cable types.

Select the type of C13 power cable ? None

▼ ===Optical Transceiver&Fiber===

▼ ===40GE-QSFP+ Optical Transceiver===

None

ordinarily C13

C13 PDU

None

Currently, the CE series switches provide two types of power cables: PDU power cables and standard-compliant power cables. The two types of power cables apply to different cabinet sockets. Select proper C13 power cables based on the cabinet socket type.

Figure 2-1 shows the sockets used for PDU power cables.

**Figure 2-1** Sockets for PDU power cables



Figure 2-2 shows a PDU power cable.

**Figure 2-2** PDU power cable



## 2.3 Selecting the CE8800 Interface Card

- Step 1** Select the interface card type as required. Currently, the CE8800 switches support 10GE, 25G, 40GE, and 100GE interface cards.



**Step 2** Select the required interface cards according to the number of required ports.

**Step 3** Enter the number of required interface cards.

▼ ===Interface Card===		
CE8860:8 Port 100GE QSFP28 Interface Card	0	0
CE8860:16 Port 40GE QSFP+ Interface Card	0	0
CE8860:24 Port 10GE Base-T and 2 Port 100GE QSFP28 Interface Card	0	0
CE8860:24 Port 25GE SFP28 and 2 Port 100GE QSFP28 Interface Card	0	0

## 2.4 Selecting the CE8800 License

If functions, including VXLAN, NPV, and FCF are required, configure the corresponding licenses.

▼ ===Software===		
Select need License or not	None	YES
Select need CE88-LIC-BUN01 or not	No	No
Select need VXLAN function or not	No	No
Select need FCOE NPV function or not	No	No
CE8800 FCF 16 Ports license	0	0
Select need FCF ALL Ports function or not	No	No

## 2.5 Selecting Optical Modules, Optical Fibers, Optical Cable Assemblies, and High-Speed Cables

**Step 1** Select the type and number of optical modules based on the configured card type.

- 100G optical modules include the 100 m QSFP28 multimode optical modules.
- 40GE optical modules include the 150 m and 300 m multimode optical module, 1.4km, 10 km, 40km QSFP+ optical module.
- 10GE optical modules include the multimode SFP+ optical modules of 100 m, 220 m, and 300 m, and single-mode SFP+ optical modules of 1.4km, 10 km, 40 km, and 80 km. 10GE optical interfaces on the CE12800 can work as GE optical interfaces.

**Step 2** Select optical cable assemblies.

▼ ===Patch Cord===		
Select the Client Interface of Patch Cord(the local in...	None	None
Select the type of cable assemblies client interface(t...	None	None

**Step 3** Use high-speed cables or AOC high-speed cable if the transmission distance is short.

➤ High-speed cables:

- 40GE high-speed cables include two types. One type is used to connect two 40GE interfaces. The other type is used to connect one 40GE interface and four 10GE interfaces. The two types of cables provide transmission distances of 1 m, 3 m, and 5 m. There are a total of six types of high-speed cables.



### NOTE

When configuring high-speed cables, you do not need to configure optical modules.

The following figures show some high-speed cables.



10GBASE-CR SFP+ direct copper cable



40GBASE-CR4 QSFP direct copper cable



QSFP to 4\*10G SFP+ copper cable

- AOC high-speed cable
- 40G QSFP+ AOC high-speed cable:

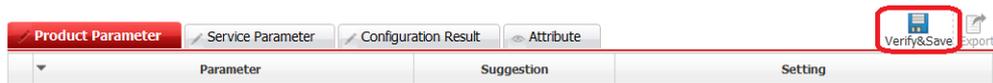


## 2.6 Other Configurations

1. **USB:** The CE8800 provides USB interfaces and USB flash drive (USB2.0, 4.0 GB, part number 06010171, and model NUSBDSK01). These USB components can be configured as required.
2. **Network cables:** Each network cable has two RJ45 connectors (part number 14080082). The length of network cables is determined according to user requirements. A network cable (part number 25050014) for a GE interface is sold on a per-meter basis and must be sold with RJ45 connectors (part number 14080082). A network cable (part number 04050612) for a 10GE interface is sold on a 3-meter basis and already has connectors installed.

## 2.7 Exporting the Quotation

**Step 1** After the preceding configurations are complete, click **Verify&Save**.



**Step 2** Verify the configurations, and click **My Quotations**. On the **My Quotations** page, click **Export**. The quotation is exported. For details about how to perform operations on the SCT, see the help on the SCT website.



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