



Huawei CloudEngine 5800 Switch Ordering Guide



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1 CloudEngine 5800 Product Overview

Huawei CloudEngine 5800 (CE5800) switches are next-generation, high-performance GE switches. The CE5800 switches can function as access nodes on enterprise data center networks and campus networks and provide GE, 10GE, and 40GE Ethernet interfaces. Currently, the CE5800 switches have the following models: CE5850-48T4S2Q-HI, CE5850-48T4S2Q-EI, CE5810-48T4S-EI, and CE5810-24T4S-EI.

Series	Device Model	Port Description
CE5800	CE5810-24T4S-EI	28 Twenty-four 10/100/1000BASE-T Ethernet electrical ports, four 10GE SFP+ optical ports
	CE5810-48T4S-EI	52 Forty-eight 10/100/1000BASE-T Ethernet electrical ports, four 10GE SFP+ optical ports
	CE5850-48T4S2Q-EI	54 Forty-eight 10/100/1000BASE-T Ethernet electrical ports, four 10GE SFP+ optical ports, two 40GE QSFP+ optical ports (A 40GE optical port cannot be split into four 10GE ports.)
	CE5850-48T4S2Q-HI	54 Forty-eight 10/100/1000BASE-T Ethernet electrical ports, four 10GE SFP+ optical ports, two 40GE QSFP+ optical ports (A 40GE optical port can be split into four 10GE ports.)
	CE5855-48T4S2Q-EI	54 Forty-eight 10/100/1000BASE-T Ethernet electrical ports, four 10GE SFP+ optical ports, two 40GE QSFP+ optical ports (A 40GE optical port can be split into four 10GE ports.)
	CE5855-24T4S2Q-EI	30 Twenty-four 10/100/1000BASE-T Ethernet electrical ports, four 10GE SFP+ optical ports, two 40GE QSFP+ optical ports (A 40GE optical port can be split into four 10GE ports.)

2 Basic Configurations

The CE5800 configuration procedure is as follows:

1. (Mandatory) Select the CE5800 model.
2. (Mandatory) Select the device type (bundle or host), the airflow, power modules, and power cable type.

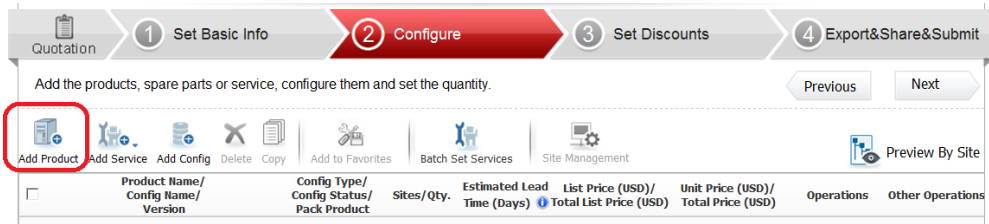


3. (Optional) Select optical modules, optical fibers, optical cable assemblies, and high-speed cables.
4. (Mandatory) Select other components.

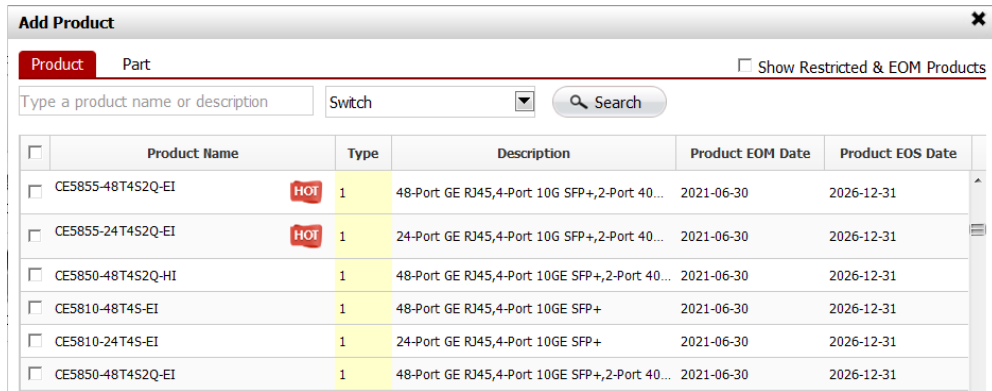
The following describes the configuration of each step.

2.1 Selecting the CE5800 Model

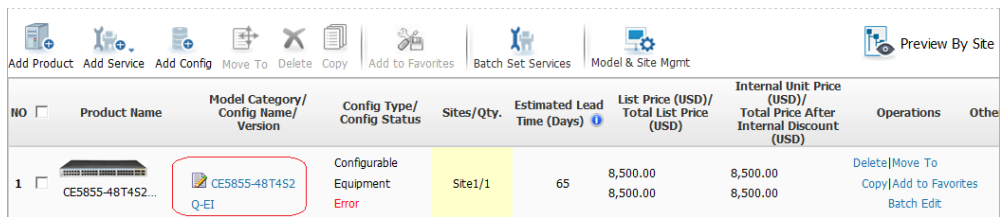
Step 1 On the SCT home page, select **My Quotations**. Create a quotation, set basic information and save it, and click **Next**.



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 or host.



Product Parameter	Service Parameter	Config Result	Attribute
Parameter	Suggestion	Setting	
The lead time (LT) for TOR switches of typical configuratio...			
New site or Expansion	New Site	New Site	
Select the type of Power Supply	AC	AC	
Quote by Bundle(Contains power module and fan) config...	Yes	Yes	
===Basic Configuration===			
▼ ===Mainframe===			
▼ ===CE5855 EI Serise (Recommend)===			
(Type)CE5855-48T4S2Q-EI Switch(48-Port GE RJ4...	1		
(Type)CE5855-48T4S2Q-EI Switch(48-Port GE RJ4...	0		
CE5855-24T4S2Q-EI Switch(24-Port GE RJ45,4-P...	0		
CE5855-24T4S2Q-EI Switch(24-Port GE RJ45,4-P...	0		
▶ ===CE5800 HI Serise===			
▶ ===CE5800 EI Serise ===			

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

▼ ===Fan Box&Power===		
150W AC Power Module(No Fan , used in CE5855EI)	0	0

- The CE5800 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.
- The CE5800 series switches support 150 W AC and 350 W DC power modules. The power modules in 1+1 backup mode are recommended.

Step 3 Select power cable types.

Select the type of C13 power cable	None	None
▼ ===Optical Transceiver&Fiber===		
▼ ===40GE-QSFP+ Optical Transceiver===		
		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 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.

- GE modules include the 100 m copper transceiver, 500 m multimode optical module, single-mode optical modules of 10 km, 40 km, 80 km, and 100 km, and two pairs of bidirectional optical modules (10 km and 40 km).
- 10GE optical modules include the multimode SFP+ optical modules of 100 m, 220 m, and 300 m, and single-mode SFP+ optical modules of 1.4 km, 10 km, 40 km, and 80 km.
- 40GE optical modules include the multimode optical modules of 150 m and 300 m, and 1.4km, 10km, 40km optical module. Only the CE5850 supports 40GE modules.

Step 2 Select optical fibers and optical cable assemblies.

Patch Cord		
Need 10G Multimode Module OM3 Optical fiber or not	Yes	Yes
Select the OM3 Client Interface of Patch Cord(the local...	None	None
Select the Client Interface of Patch Cord(the local in...	None	None
Select the type of 40G MM cable assemblies client in...	None	None
Select the type of 40G SM cable assemblies client in...	None	None

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

➤ High-speed cables:

- 10GE high-speed cables can provide transmission distances of 1 m, 3 m, 5 m, 7 m, and 10 m.
- 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

10G SFP+ AOC high-speed cable:



40G QSFP+ AOC high-speed cable:



2.4 Other Configurations

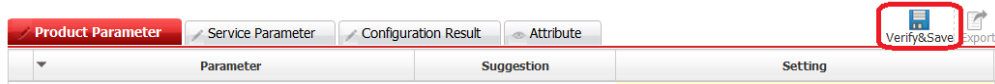
1. **Surge protection materials:** Determine whether to install surge protectors. You must install a surge protector (part number 19020034) on each device in areas where thunderstorm often occurs. The surge protector has five pluggable slots and can connect to up to five devices.
2. **USB:** The CE5800 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.
3. **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.

2.5 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.

<input type="checkbox"/>	Quotation	Customer/ Country	Price/ Estimated Lead Time (Days)	From	Operations	Other Operations	All Da
<input type="checkbox"/>	Normal BOQ test 0000Hc00139102201408140002	Armenia	151,824.00 (USD FOB C hina) Uncertain	SCT	Copy Delete Share Export Submit Offline Quote		2014