






# Quick Start Guide


## 54-Port 10G Top-of-Rack Switch

DG-CS4554F

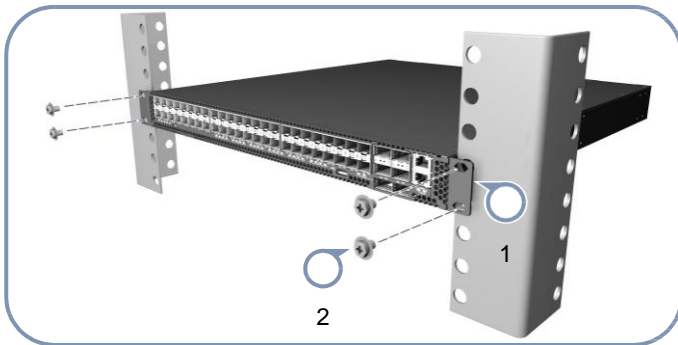


### 1. Unpack the Switch and Check Contents


-  Rack Mounting Kit—contains two brackets and eight screws
-  Power Cord - included with AC PSUs only
-  Grounding Wire (included with DC PSUs only)
-  Console Cable—RJ-45 to DB-9
-  Documentation—*Quick Start Guide* (this document)

 **Caution:** The switch includes two plug-in AC or DC PSUs and five fan tray modules that are installed into its chassis. All installed modules must have a matching airflow direction. That is, all modules must have a front-to-back (F2B) airflow direction, or all modules must have a back-to-front (B2F) airflow direction. The airflow direction of PSU and fan tray modules is indicated by labels on the modules.

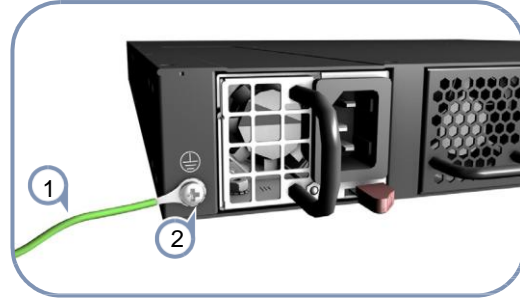
### 2. Mount the Switch




- 1 Attach the brackets to the switch.
- 2 Use the screws supplied with the rack to secure the switch in the rack. (The switch can also be installed a 21 inch Open Rack using an Open Rack Switch Adapter.)

 **Caution:** Installing the switch in a rack requires two people. One person should position the switch in the rack, while the other secures it using the rack screws.

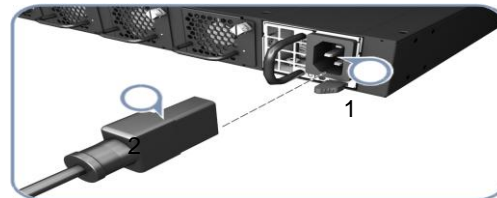
### 3. Ground the Switch



- 1 Ensure the rack is properly grounded and in compliance with ETSI ETS 300 253. Verify that there is a good electrical connection to the grounding point on the rack (no paint or isolating surface treatment).
- 2 Attach a lug (not provided with AC PSUs) to an 18 AWG minimum grounding wire (not provided with AC PSUs), and connect it to the grounding point on the switch rear panel. Then connect the other end of the wire to rack ground.

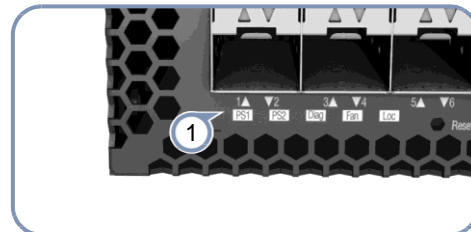
 **Caution:** The earth connection must not be removed unless all supply connections have been disconnected.

### 4. Connect Power



- 1 Install one or two AC or DC power modules in the switch. The switch supports up to two PSUs that must have the same matching airflow direction as the installed fan tray.
- 2 Connect an external AC or DC power source to the modules.

### 5. Verify Switch Operation

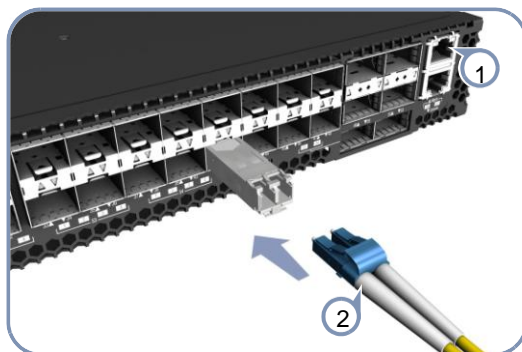


- 1 Verify basic switch operation by checking the system LEDs. When operating normally, the PSU1/PSU2, Diag, and Fan LEDs should all be on green.

## 6. Perform System Boot

- Power ON the Switch

## 7. Connect Network Cables



- ① For the RJ-45 Management port, connect 100-ohm Category 5, 5e or better twisted-pair cable.
- ② Connect DAC cables to the SFP+/QSFP+ slots. Or first install SFP+/QSFP+ transceivers and then connect fiber optic cabling to the transceiver ports.  
The following transceivers are supported:
  - ◆ 40GBASE-CR4
  - ◆ 40GBASE-SR4
  - ◆ 10GBASE-CR
  - ◆ 10GBASE-SR
  - ◆ 1000BASE-SX
  - ◆ 1000BASE-LX

**i** **Note:** As connections are made, check the port status LEDs to be sure the links are valid.

## Hardware Specifications

### Switch Chassis

Size (WxDxH) 438.4 x 473 x 43.4 mm (17.26 x 18.62 x 1.71 inches) Weight 8.87 kg (19.56 lb), with two installed PSUs

Temperature Operating: 0° C to 40° C (32° F to 104° F)  
Storage: -40° C to 70° C (-40° F to 158° F)

Humidity Operating: 5% to 95% (non-condensing)

Power Consumption 282 Watts maximum

### AC PSU

Power Rating 100–240 VAC, 50-60 Hz, 400 Watts, hot  
pluggable AC Input 100–240 VAC, 50-60 Hz, 6–3 A

DC Output 5 VDC @ 3 A  
12 VDC @ 33 A

### DC PSU

Power Rating 48 VDC, 400 Watts, hot  
pluggable DC Input 36–75 VDC, 16 A

maximum

DC Output 5 VDC @ 0.5 A  
12 VDC @ 33 A