ARISTA

QUICK START GUIDE

7050 Series 1RU (Gen 3) Data Center Switches

DCS-7050QX-32S
DCS-7050TX-96
DCS-7050TX-48
DCS-7050SX2-72Q
DCS-7050QX2-32S
DCS-7050SX-96
DCS-7050SX3-24YC4C-S
DCS-7050TX-64
DCS-7050CX3-32S
DCS-7050SX-64
DCS-7050SX3-48YC12
DCS-7050TX-72
DCS-7050SX3-48YC8
DCS-7050SX3-48YC8C
DCS-7050SX-72
DCS-7050CX3M-32S
DCS-7050TX-72Q
DCS-7050TX3-48C8
DCS-7050SX-72Q
DCS-7050SX3-48C8

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Contents

Chapter 1

Overview

This section discusses the following topics:

1.1 Scope

This guide is for properly trained service personnel and technicians who need to install Arista Networks Data Center Switches.

DCS-7050QX-32S	DCS-7050TX-48	DCS-7050QX2-32S
DCS-7050TX-64	DCS-7050SX-64	DCS-7050TX-72
DCS-7050SX-72	DCS-7050TX-72Q	DCS-7050SX-72Q
DCS-7050TX-96	DCS-7050SX2-72Q	DCS-7050SX-96
DCS-7050CX3-32S	DCS-7050SX3-48YC12	DCS-7050SX3-48YC8
DCS-7050CX3M-32S	DCS-7050TX3-48C8	DCS-7050SX3-48C8
DCS-7050SX3-24YC4C-S	DCS-7050SX3-48YC8C	

Important:

Only qualified personnel should install, service, or replace this equipment.

Seul le personnel qualifié doit installer, service, ou remplacer cet équipement.

1.2 Receiving and Inspecting the Equipment

Upon receiving the switch, inspect the shipping boxes and record any external damage. Retain packing materials if you suspect that part of the shipment is damaged; the carrier may need to inspect them.

If the boxes were not damaged in transit, unpack them carefully. Ensure you do not discard any accessories packaged in the same box as the main unit.

Inspect the packing list and confirm that you received all listed items. Compare the packing list with your purchase order. The Parts List provides a list of components included with the switch.

1.3 Installation Process

The following tasks are required to install and use the switch.

1. Select and prepare the installation site (Site Selection).
2. Assemble the installation tools listed (Tools and Parts Required for Installation).
3. Attach the mounting brackets and install the switch in an equipment rack (Rack Mounting the Switch).
4. Connect the switch to the power source and network devices (Cabling the Switch).
5. Configure the switch (Configuring the Switch).

Important:

Class 1 Laser Product: This product has provisions for installing Class 1 laser transceivers, which provide optical coupling to the communication network. After a Class 1 laser product is installed, the equipment is a Class 1 Laser Product (Appareil à Laser de Classe 1). The customer is responsible for selecting and installing the Class 1 laser transceiver and for ensuring that the Class 1 AEL (Allowable Emission Limit) per EN/IEC 60825, CSA E60825-1, and Code of Federal Regulations 21 CFR 1040 is not exceeded after the laser transceiver have been installed. Do not install laser products whose class rating is greater than 1. Refer to all safety instructions that accompany the transceiver before installation. Only Class 1 laser devices, certified for use in the country of installation by the cognizant agency, are to be utilized in this product.

Produit laser de classe 1: Ce produit est prévu pour l'installation d'émetteurs-récepteurs laser de classe 1, qui assurent un couplage optique au réseau de communication. Une fois qu'un produit laser de classe 1 est installé, l'équipement est un produit laser de classe 1 (Appareil à Laser de Classe 1). Le client est responsable de la sélection et de l'installation de l'émetteur-récepteur laser de classe 1 et de s'assurer que la classe 1 AEL (limite d'émission admissible) selon EN/IEC 60825, CSA E60825-1 et Code of Federal Regulators 21 CFR 1040 n'est pas dépassée après l'installation de l'émetteur-récepteur laser de classe 1. un émetteur-récepteur laser a été installé. N'installez pas de produits laser dont la classe est supérieure à 1. Reportez-vous à toutes les instructions de sécurité qui accompagnent l'émetteur-récepteur avant l'installation. Seuls les appareils laser de classe 1, certifiés pour une utilisation dans le pays d'installation par l'agence compétente, doivent être utilisés dans ce produit.

Important:

The ultimate disposal of this product should be handled by abiding by all national laws and regulations.

L'élimination finale de ce produit doit être effectuée dans le respect de toutes les lois et réglementations nationales.

1.4 Safety Information

Refer to the Arista Networks document *Safety Information and Translated Safety Warnings* at http://www.arista.com/assets/data/pdf/AristaBSMIRoHS.pdf.

1.5 Obtaining Technical Assistance

Any customer, partner, reseller, or distributor holding a valid Arista Service Contract can obtain technical support in the following ways.

- **Email:** support@arista.com.

  This is the easiest way to create a new service request.

  Include a detailed description of the problem and the “show tech-support” output.

- **Web:** https://www.arista.com/en/support.

  You can create a support case through the support portal on our website. You may also download the most current software and documentation and view FAQs, Knowledge Base articles, Security Advisories, and Field Notices.

- **Phone:** +1 866-476-0000 or +1 408-547-5502

Important:

There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.

Il n’y a aucune pièce réparable par l’utilisateur à l’intérieur. Confiez tout entretien à un personnel de service qualifié.

1.6 Specifications

This guide covers a list of specifications of Arista Data Center modular switches and components.

Table 1: Switch Specifications (Dimensions and Weights)

Switch	Size (W x H x D)	Weight
DCS-7050QX-32S	48.3 x 4.4 x 40.6 cm (19 x 1.75 x 16 inches)	9.1 kg (20.1 lbs.)
DCS-7050TX-48	48.3 x 4.4 x 40.6 cm (19 x 1.75 x 16 inches)	7.7 kg (17.0 lbs.)
DCS-7050QX2-32S	48.3 x 4.4 x 40.6 cm (19 x 1.75 x 16 inches)	9.1 kg (20.1 lbs.)
DCS-7050TX-64	48.3 x 4.4 x 40.6 cm (19 x 1.75 x 16 inches)	8.6 kg (19.0 lbs.)
DCS-7050SX-64	48.3 x 4.4 x 40.6 cm (19 x 1.75 x 16 inches)	8.6 kg (19.0 lbs.)
DCS-7050TX-72	48.3 x 4.4 x 40.6 cm (19 x 1.75 x 20.6 inches)	10.0 kg (22.0 lbs.)
DCS-7050SX-72	48.3 x 4.4 x 40.6 cm (19 x 1.75 x 16 inches)	8.6 kg (19.0 lbs.)
DCS-7050TX-72Q	48.3 x 4.4 x 40.6 cm (19 x 1.75 x 20.6 inches)	10.2 kg (22.5 lbs.)
DCS-7050SX-72Q	48.3 x 4.4 x 40.6 cm (19 x 1.75 x 16 inches)	7.8 kg (17.2 lbs.)
DCS-7050TX-96	48.3 x 4.4 x 40.6 cm (19 x 1.75 x 20.6 inches)	10.5 kg (23.1 lbs.)
DCS-7050SX2-72Q	48.3 x 4.4 x 40.6 cm (19 x 1.75 x 16 inches)	10.1 kg (22.3 lbs.)
DCS-7050SX-96	48.3 x 4.4 x 40.6 cm (19 x 1.75 x 16 inches)	9.1 kg (20.1 lbs.)
DCS-7050CX3-32S	48.3 x 4.4 x 40.6 cm (19 x 1.75 x 16 inches)	8.8 kg (19.4 lbs.)
DCS-7050SX3-48YC12	48.3 x 4.4 x 44.4 cm (19 x 1.75 x 17.5 inches)	9.2 kg (20.3 lbs.)
DCS-7050SX3-48YC8	48.3 x 4.4 x 46.8 cm (19 x 1.75 x 18.43 inches)(1)	9.5 kg (21.0 lbs.)
DCS-7050CX3M-32S	48.3 x 4.4 x 55.9 cm (19 x 1.75 x 22.0 inches)	12.0 kg (26.5 lbs.)
DCS-7050TX3-48C8	48.3 x 4.4 x 46.7 cm (19 x 1.75 x 18.4 inches)	9.4 kg (20.6 lbs.)
DCS-7050SX3-48C8	48.3 x 4.4 x 46.8 cm (19 x 1.75 x 18.4 inches)(1)	9.4 kg (20.6 lbs.)
DCS-7050SX3-24YC4C-S	48.3 x 4.4 x 46.8 cm (19 x 1.75 x 18.4 inches)(1)	9.3 kg (21 lbs.)

Switch	Size (W x H x D)	Weight
DCS-7050SX3-48YC8C	48.3 x 4.4 x 46.8 cm (19 x 1.75 x 18.4 inches)	9.3 kg (21 lbs.)

(1): Depth 50.5 cm (19.9 inches) with PSU and fans.

Table 2: Switch Specifications (Operational and Storage)

Switch	Operating Temperature	Storage Temperature	Operating Altitude	Relative Humidity
All	0° to 40°C (32° to 104°F)	-25° to 70°C (-13° to 158°F)	0 to 3,000 meters (0 to 10,000 feet)	5 to 90% (non-condensing)

Table 3: Switch Specifications (Power Input)

Power Source	PSU Models	Ratings
Power Input (AC Power)	PWR-500AC	100 - 240 VAC, 6.5 to 3.0 A, 50/60 Hz
Power Input (DC Power)	PWR-500-DC	-48 to -60 VDC, 15 A
Power Input (AC Power)	PWR-511-AC	100 - 127 / 200 - 240 VAC, 7.1 / 3.4 A, 50/60 Hz
Power Input (DC Power)	PWR-511-DC	-48 to -60 VDC, 13 A
Power Input (AC Power)	PWR-1011-AC-RED	100 - 120 / 200 - 240 VAC, 12 / 6 A, 50/60 Hz
Power Input (DC Power)	PWR-1011-DC-RED	-48 to -60 VDC, 30 A

Note: All switches do not support all PSU models. Some switches described in this guide could use power supplies that may no longer be available. Contact your local Arista representative for more information.

Table 4: Switch Specifications (Power Draw)

Switch	Power Draw (Typical / Maximum)	Supported Power Supply
DCS-7050QX-32S	150 W / 300 W	PWR-500AC PWR-500-DC
DCS-7050TX-48	305 W / 367 W	PWR-500AC PWR-500-DC
DCS-7050QX2-32S	129 W / 283 W	PWR-500AC PWR-500-DC
DCS-7050TX-64	315 W / 387 W	PWR-500AC PWR-500-DC
DCS-7050SX-64	140 W / 220 W	PWR-500AC PWR-500-DC
DCS-7050TX-72	349 W / 440 W	PWR-500AC PWR-500-DC
DCS-7050SX-72	144 W / 276 W	PWR-500AC PWR-500-DC
DCS-7050TX-72Q	340 W / 430 W	PWR-500AC PWR-500-DC
DCS-7050SX-72Q	144 W / 261 W	PWR-500AC PWR-500-DC
DCS-7050TX-96	355 W / 455 W	PWR-500AC PWR-500-DC
DCS-7050SX2-72Q	127 W / 251 W	PWR-500AC PWR-500-DC
DCS-7050SX-96	159 W / 290 W	PWR-500AC PWR-500-DC
DCS-7050CX3-32S	206 W / 314 W	PWR-500AC PWR-500-DC
DCS-7050SX3-48YC12	170 W / 325 W	PWR-500AC PWR-500-DC
DCS-7050SX3-48YC8	165 W / 345 W	PWR-511-AC PWR-511-DC
DCS-7050CX3M-32S	398 W / 751 W	PWR-1011-AC-RED PWR-1011-DC-RED
DCS-7050TX3-48C8	212 W / 346 W	PWR-511-AC PWR-511-DC
DCS-7050SX3-48C8	133 W / 313 W	PWR-511-AC PWR-511-DC
DCS-7050SX3-24YC4C-S	122 W / 178 W	PWR-511-AC PWR-511-DC

Switch	Power Draw (Typical / Maximum)	Supported Power Supply
DCS-7050SX3-48YC8C	119 W / 290 W	PWR-511-AC PWR-511-DC

Chapter 2

Preparation

This section discusses the following topics:

2.1 Site Selection

This section describes the location specifications.

The following criteria should be considered when selecting a site to install the switch:

- **Temperature and Ventilation:** For proper ventilation, install the switch with ample airflow to the front and back of the switch. The ambient temperature should not go below 0° or exceed 40°C.

  When applying labels to any switch, avoid covering ventilation perforations in the front and rear panels. Apply labels only to solid surface areas where there are no perforations. Use the pull-out tag on the front or rear of the switches, when provided, to apply custom labels. For switches that include a plastic tag with the accessory kit, use a single ventilation hole to clip the tag.

  Important:

  To prevent the switch from overheating, do not operate it in an area where the ambient temperature exceeds 40°C (104°F).

  Pour empêcher l'interrupteur de surchauffe, ne pas utiliser il dans une zone où la température ambiante est supérieure à 40°C (104°F).

- **Airflow Orientation:** Determine the airflow direction of the four fans and two power supply modules on the rear panel. Fan and power supply module handles indicate airflow direction:
  - **Blue Handle:** Air Inlet module.
  - **Red Handle:** Air Exit module.

Figure 2-1: Airflow Direction Labels and Handles display fan and power supply module locations on the rear panel. Their red handles indicate that they are air exit modules. Verify that each module has the same airflow direction. Base the switch orientation on the airflow direction of the modules to ensure the air inlet is always oriented toward the cool aisle:

- **Air Exit modules:** orient the rear panel toward the hot aisle.
- **Air Inlet modules:** orient the rear panel toward the cool aisle.

  If the airflow direction is incompatible with the installation site, contact your sales representative to obtain modules that circulate air in the opposite direction.

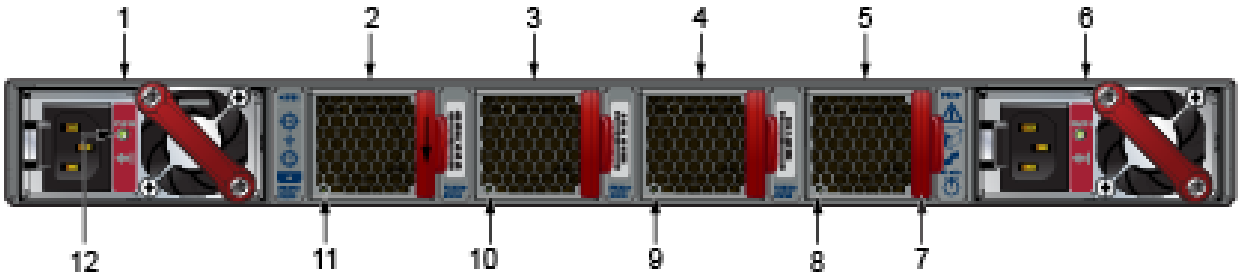
- **Rack Space:** Install the switch in a 19" rack or cabinet. The switch height is 1 RU. The accessory kit provides mounting brackets for two-post and four-post racks.

  When mounting the switch in a partially filled rack, load the rack from bottom to top, with the heaviest equipment at the bottom. Load the switch at the bottom if it is the only item in the rack.

- **Power Requirements:** Power requirements vary by switch and power supply model. Refer to Table 3: Switch Specifications (Power Input) and Table 4: Switch Specifications (Power Draw) for information regarding your specific system.

  Two circuits provide redundancy protection. Grounding the Switch describes power cable requirements.

Figure 2-1: Airflow Direction Labels and Handles



1	Power supply module 1 label	5	Fan module 4	9	Fan module 3 status LED
2	Fan module 1	6	Power supply module 2 label	10	Fan module 2 status LED
3	Fan module 2	7	Fan module handle	11	Fan module 1 status LED
4	Fan module 3	8	Fan module 4 status LED	12	PSU 1 status LED

Note: Handle or label color indicates airflow direction.

Important:

The power input plug-socket combination must be accessible at all times; it provides the primary method of disconnecting power from the system.

La combinaison de la puissance-prise d'entrée doit être accessible en tout temps ; Il fournit le principal moyen de coupure d'alimentation du système.

- **Other Requirements:** Select a site where liquids or objects cannot fall onto the equipment and foreign objects are not drawn into the ventilation holes. Verify these guidelines are met:
  - Clearance areas to the front and rear panels allow for unrestricted cabling.
  - All front and rear panel indicators can be easily read.
  - Power cords can reach from the power outlet to the connector on the rear panel.

Important:

All power connections must be removed to de-energize the unit.

Toutes les connexions d'alimentation doivent être enlevées pour hors tension l'appareil.

2.2 Tools and Parts Required for Installation

Each switch provides an accessory kit containing the parts required to install the switch.

In addition to the accessory kit, the following tools and equipment are required to install the switch:

Two-Post Rack

- Screws or rack mounting nuts and bolts.
- Screwdriver

Four-Post Rack (Tool-less)

No additional equipment is required.

Four-Post Rack (Conventional)

- Screws or rack mounting nuts and bolts.
- Screwdriver

The accessory kit does not include screws for attaching the switch to the equipment rack. When installing the switch into an equipment rack with unthreaded post holes, nuts are also required to secure the switch to the rack posts.

2.3 Electrostatic Discharge (ESD) Precautions

Observe these guidelines to avoid ESD damage when installing or servicing the switch.

- Assemble or disassemble equipment only in a static-free work area.
- A conductive work surface (such as an anti-static mat) dissipates static charge.
- Wear a conductive wrist strap to dissipate static charge accumulation.
- Minimize handling of assemblies and components.
- Keep replacement parts in their original static-free packaging.
- Remove all plastic, foam, vinyl, paper, and other static-generating materials from the work area.
- Select tools that do not create ESD.

Chapter 3

Rack Mounting the Switch

Important:

The rack mounting procedure is identical for all switches covered by this guide. Illustrations in this chapter depict the mounting of a DCS-7050QX-32S switch.

Les procédure de montage du bâti est identique pour tous les commutateurs visés par ce guide. Illustrations dans ce chapitre montrent le montage d'un interrupteur de DCS-7050QX-32S.

Note: Use the rack-mount parts included with your switch for mounting. For heavier switches, only a four-post mount is supported.

- Two-Post Rack Mount provides instructions for mounting the switch in a two-post rack.
- Four-Post Rack Mount provides instructions for mounting the switch in a four-post rack.

Note: A four-post rack mount is recommended for all switches. Use the rack-mount parts included with your switch for mounting. Rails from different kit SKUs may look similar but incompatible, leading to the inability to properly mount or remove a switch from the rack.

After completing the instructions for your rack type, proceed to Cabling the Switch.

3.1 Two-Post Rack Mount

Discusses two-post rack mounting options.

To mount the switch onto a two-post rack, assemble the mounting brackets to the chassis, then attach the brackets to the rack posts. Two-post accessory kits include the following two-post mounting parts:

2 - Three-hole Mounting Brackets

Each chassis side has attachment pins that align with bracket holes. Pin orientation is symmetric and equidistant, supporting bracket placements where the flange is flush with the front switch panel, flush with the rear panel, or not flush with either panel. Each bracket hole includes a key opening for placing the bracket flush with the chassis and then locking it into place.

Important:

Attachment pins must engage all three upper bracket holes.

Goupilles de fixation doivent être bloquer tous les trois trous de la bride supérieure.

Figure 3-1: Bracket Mount Examples for Two-Post Rack Mount displays proper bracket mount configuration examples. displays improper bracket mount configuration examples.

Figure 3-1: Bracket Mount Examples for Two-Post Rack Mount

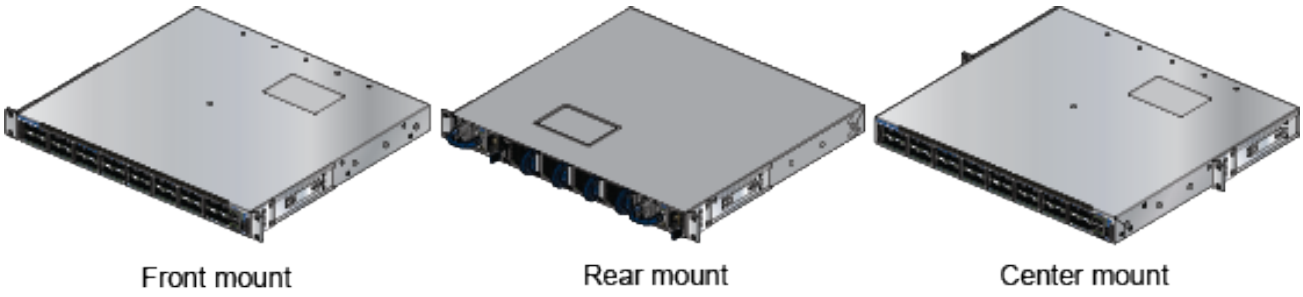
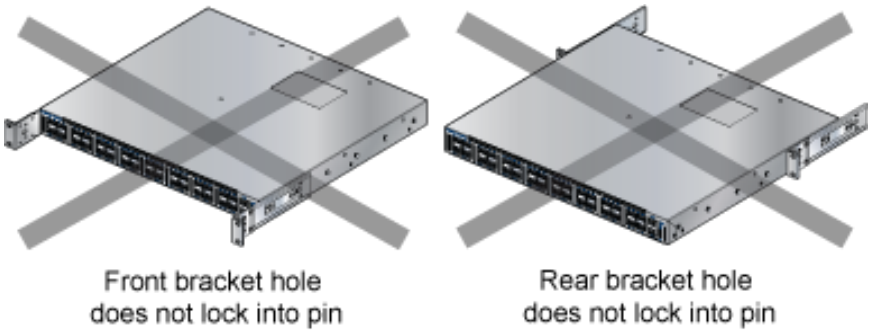


Figure 3-2: Improper Bracket Mount Examples for Two-Post Rack Mount

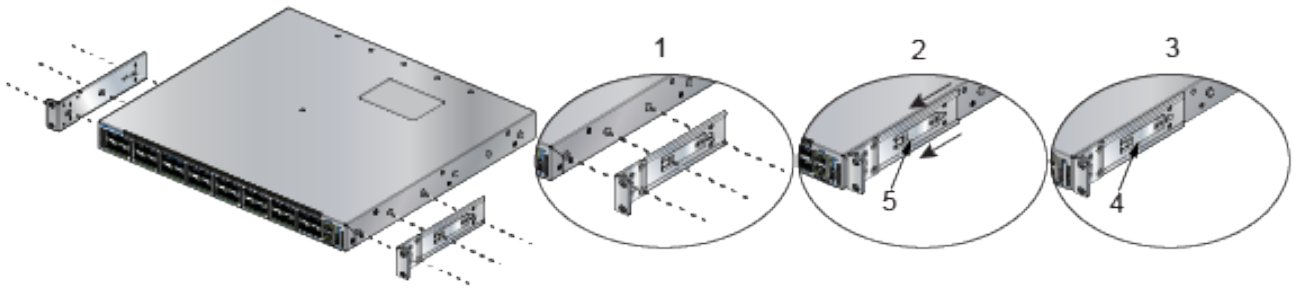
Figure 3-2: Improper Bracket Mount Examples for Two-Post Rack Mount



3.1.1 Attaching Mounting Brackets to the Two-Post Chassis

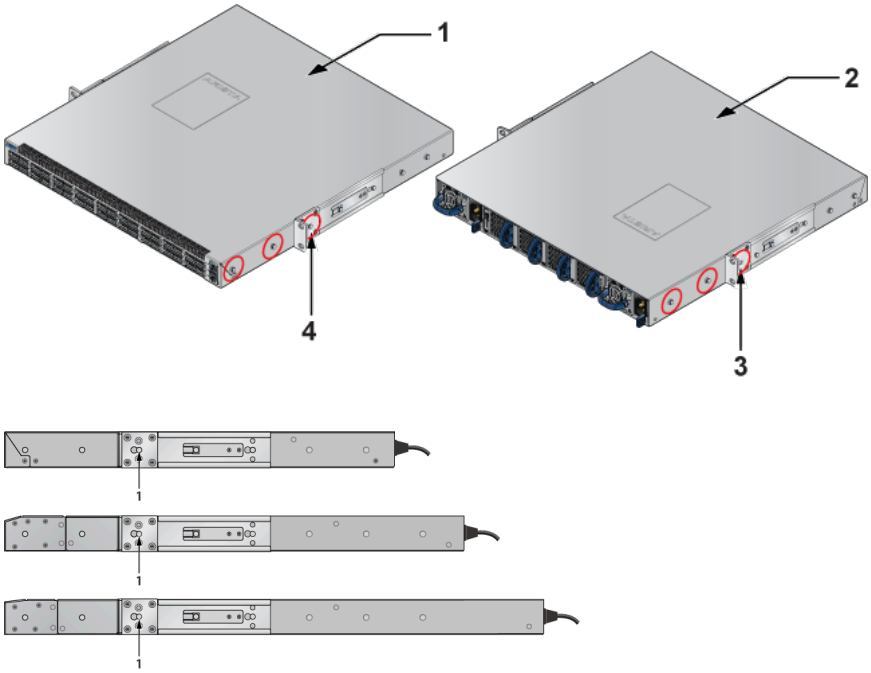
The following image displays the front bracket alignment for mounting the switch into a four-post rack.

Figure 3-3: Attaching the Mounting Brackets to the Switch Chassis (Front Mount)



Note: Deep and heavy devices could droop and cause damage to the equipment rack if front or rear-mounted. Arista recommends only center mounting for switches covered in this guide when two-post mounting is required, and the switch accessory kit includes two-post mounting ears. Four-post mounting ears differ from two-post mounting ears and should not be used for two-post mounting.

Figure 3-4: Attaching the Mounting Brackets to the Switch Chassis (Center Mount)



Note: Deep and heavy devices could droop and cause damage to the equipment rack if front or rear mounted. Arista recommends only center mounting for switches covered in this guide when two-post mounting is required, and the switch accessory kit includes two-post mounting ears. Four-post mounting ears are different from the two-post mounting ears and should not be used for two-post mounting.

This procedure attaches mounting brackets to the switch chassis as depicted by Figure 3-3: Attaching the Mounting Brackets to the Switch Chassis (Front Mount) and Figure 3-4: Attaching the Mounting Brackets to the Switch Chassis (Center Mount).

1. Align the mounting brackets with the attachment pins to obtain the desired mounting position.
2. Place the bracket flush on the chassis with attachment pins protruding through key openings.
3. Slide the bracket toward the front flange until the bracket clip locks with an audible click.

   To remove the mounting bracket from the chassis, lift the front edge of the mounting bracket clip with a flathead screwdriver and slide the bracket away from the front flange (opposite from the installation direction).

3.1.2 Inserting the Switch into the Rack

This procedure attaches the switch to the rack (Figure 3-5: Inserting the Switch into the Rack (Front Mount)).

1. Lift the chassis into the rack. Position the flanges against the rack posts.
2. Select mounting screws that fit your equipment rack.
3. Attach the bracket flanges to the rack posts.

Figure 3-5: Inserting the Switch into the Rack (Front Mount)

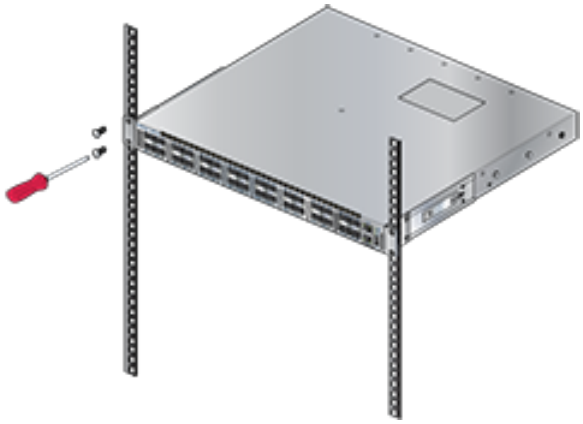
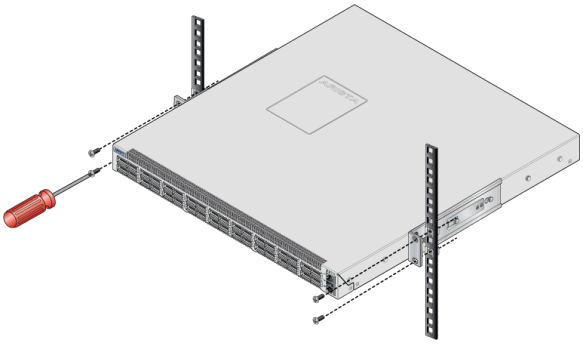


Figure 3-6: Inserting the Switch into the Rack (Center Mount - Recommended)



After completing the two-post rack mount, proceed to Cabling the Switch.

3.2 Four-Post Rack Mount

Discusses the four-post racking option.

The switch is mounted onto a four-post rack by assembling two rails onto the rear posts, sliding the switch onto the rails, and securing the switch to the front posts.

The installation kit provides the following four-post mounting parts:

- 2 six-hole mounting brackets
- 2 rail-rods
- 2 rail-slides

The rail rods and rail slides assemble into two identical slide rails.

Each chassis side has attachment pins that align with bracket holes. Pin orientation is symmetric and equidistant, supporting bracket placements where the flange is flush with the front switch panel, flush with the rear panel, or not flush with either panel. Each bracket hole includes a key opening for placing the bracket flush with the chassis and then locking it into place.

Important:

Attachment pins must engage at least five of the six bracket holes.

Goupilles de fixation doivent être lock au moins cinq des trous du six support.

Figure 3-7: Bracket Mount Examples for Four-Post Rack Mount displays proper bracket mount configuration examples. Figure 3-8: Improper Bracket Mount Example for Four-Post Rack Mount displays an improper bracket mount configuration example.

Figure 3-7: Bracket Mount Examples for Four-Post Rack Mount

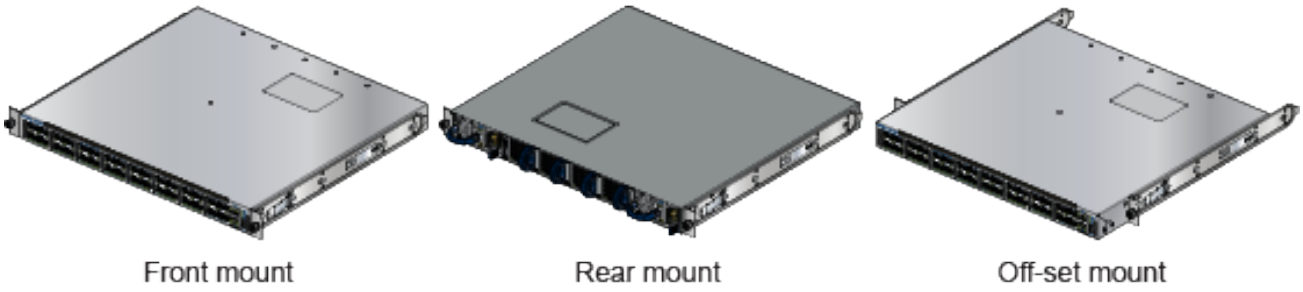
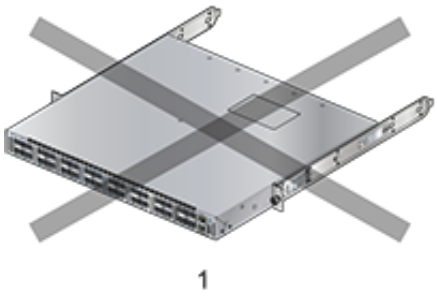


Figure 3-8: Improper Bracket Mount Example for Four-Post Rack Mount

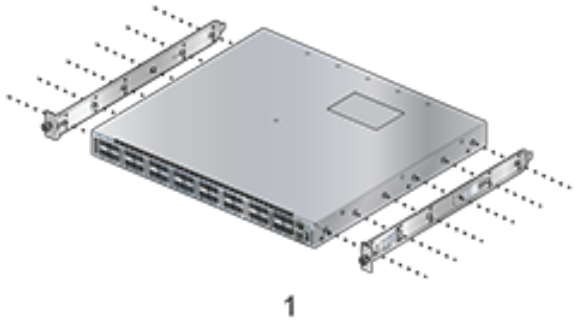


1 Bracket not attached by at least 5 pins

3.2.1 Attaching Mounting Brackets to the Four-Post Chassis

The following image displays the front bracket alignment for mounting the switch into a four-post rack.

Figure 3-9: Attaching the Mounting Brackets to the Switch Chassis



This procedure attaches mounting brackets to the switch chassis as depicted by Figure 3-9: Attaching the Mounting Brackets to the Switch Chassis.

1. Align the mounting brackets with the attachment pins to obtain the desired mounting position.
2. Place the bracket flush on the chassis with attachment pins protruding through key openings.
3. Slide the bracket toward the front flange until the bracket clip locks with an audible click.

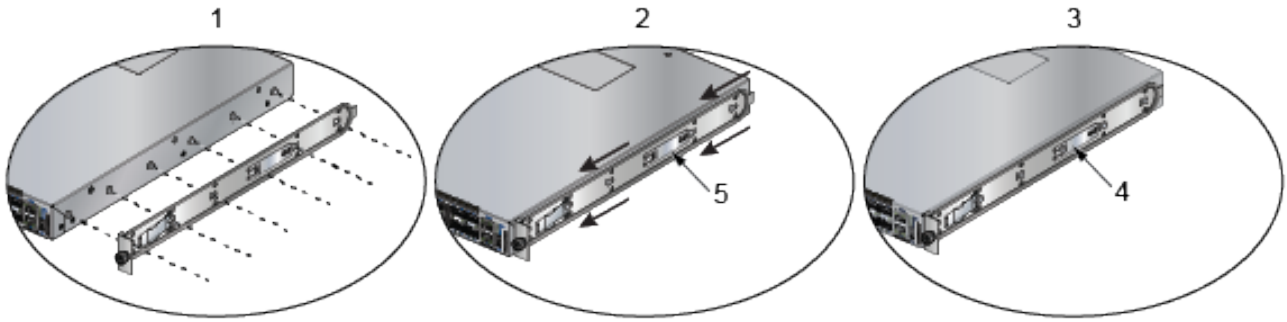
   To remove the mounting bracket from the chassis, lift the front edge of the mounting bracket clip with a flathead screwdriver and slide the bracket away from the front flange (opposite from the installation direction).

3.2.2 Assembling the Rails onto the Equipment Rack

Rail rods and rail slides assemble into two identical rails. Each rail connects a front post to a rear post. When the rails are installed, the switch slides on the rails into the rack. Each bracket includes a screw that attaches the switch to the rail.

Each end of an assembled rail contains two rack plugs (Figure 3-10: Attaching the Four-Post Mounting Brackets to the Switch Chassis). The rails are installed into a rack by inserting the plugs into rack slots. When installing rails into posts with threaded or rounded holes, remove all plugs on both sides of the assembled rails, then install the rails with bolts that fit the rack.

Figure 3-10: Attaching the Four-Post Mounting Brackets to the Switch Chassis



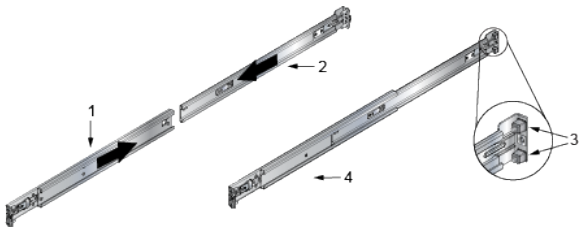
1 Step 1
2 Step 2
3 Step 3
4 Bracket clip (attached)
5 Bracket clip (aligned)

This procedure attaches the rails to a four-post rack:

1. Slide a rail rod into a rail slide (Figure 3-11: Assembling the Rails) until the rail clip makes an audible click.

   The rail clip prevents the extension of the rail beyond the maximum supported distance between the front and rear rack posts.

Figure 3-11: Assembling the Rails



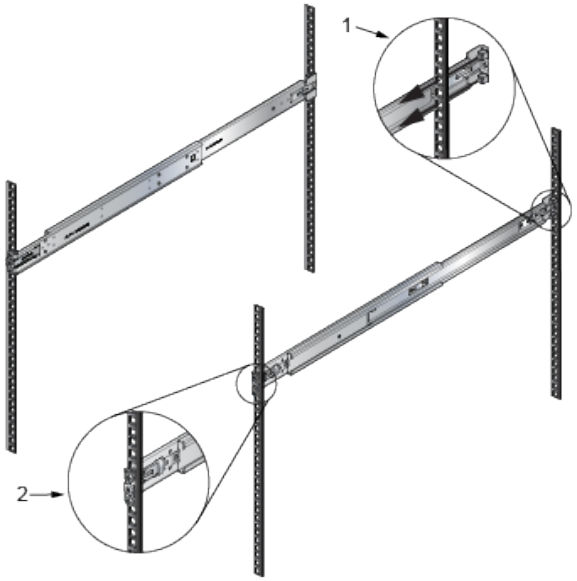
1 Rail slide	2 Rail rod
3 Rack plugs	4 Rail (assembled)

2. Attach the rail to the right rear rack post by inserting rod-end rack plugs into post slots (Attaching the Rails, Detail A). The slide assembly must be inside the right posts relative to the left rack posts.

   If the rack plugs were previously removed, use bolts to attach the rail to the rack.

3. Attach the slide end of the rail to the front post by extending the rail end past the post, then contracting the rail while guiding the rack plugs into the post (Attaching the Rails, Detail B).
4. Repeat **Step 1** through **3** for the left posts. Ensure the rails are on the same horizontal level.

Figure 3-12: Attaching the Rails



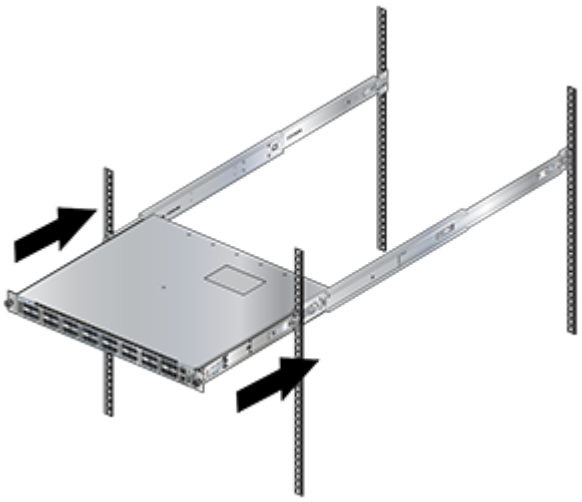
1 Detail A	2 Detail B

3.2.3 Attaching the Switch to the Rack

After the rails are installed, the switch slides on the rails into the rack. Each bracket includes a thumb screw that attaches the switch to the rail.

1. Lift the switch into the rack and insert the mounting brackets into the slide rails.

Figure 3-13: Inserting the Switch onto the Rails



2. Slide the switch on the rails toward the rear posts until the mounting bracket flanges are flush with the rail flanges attached to the rack posts.
3. Attach the bracket flanges to the rack post using the quick-release thumb screws supplied with the brackets (Figure 3-14: Attaching the Switch to the Rack Posts).

Figure 3-14: Attaching the Switch to the Rack Posts

After completing the four-post rack mount, proceed to Cabling the Switch.

Chapter 4

Cabling the Switch

This section discusses the following topics:

4.1 Grounding the Switch

After mounting the switch into the rack, this section discusses how to connect the switch to the data center ground.

Figure 4-1: Earth Grounding Pad Sockets for Models without Management Ports on the Rear Panel display the grounding pads on the rear panel's bottom corners for the models with no management ports on the rear panel.

Figure 4-2: Earth Grounding Pad Sockets for Models with Management Ports on the Rear Panel display the location of the grounding pads on the rear panel for models with management ports on the rear panel. There are threaded holes under the sticker on the right (next to PS2) that warn about “1 min”.

Figure 4-3: Earth Grounding Adapter for DCS-7050SX3-48YC8 displays the location of the grounding assembly on the rear panel for DCS-7050SX3-48YC8.

Important:

Grounding wires and grounding lugs (M4 x 0.7) are not supplied. Wire size should meet local and national installation requirements. Commercially available 6 AWG wire is recommended for installations in the U.S.

À la terre et de mise à la terre fils cosses (M4 x 0.7) ne sont pas fournis. Calibre des fils doit satisfaire des exigences de l’installation locale et nationale. Disponible dans le commerce 6 fils AWG est recommandé pour les installations aux États-Unis.

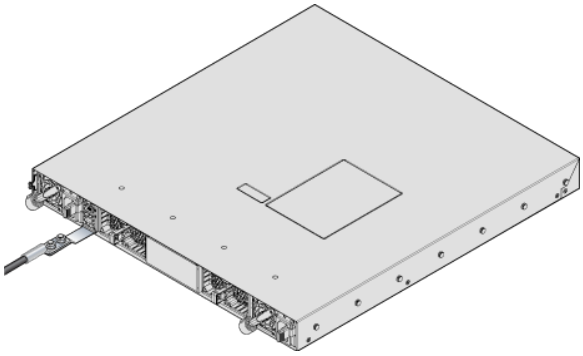
Figure 4-1: Earth Grounding Pad Sockets for Models without Management Ports on the Rear Panel

1 Earth grounding pad

Figure 4-2: Earth Grounding Pad Sockets for Models with Management Ports on the Rear Panel

1 Earth grounding pad

Figure 4-3: Earth Grounding Adapter for DCS-7050SX3-48YC8



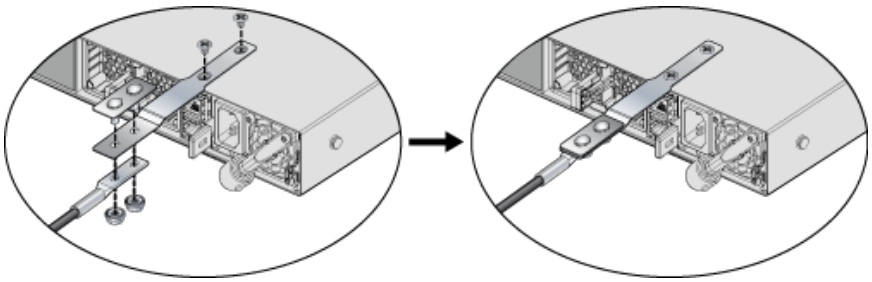
4.2 Grounding Adapter Assembly (DCS-7050SX3-48YC8)

Use the following steps to assemble and attach a grounding assembly to the chassis before mounting it into the rack.

> **Note:** NEBS-compliant deployments require chassis grounding. Use the grounding point(s) on the switch directly or with the appropriate ground adapter kit to ground the chassis. Grounding on the hot-swappable power supplies cannot ensure continuous grounding to the chassis when a power supply is removed.

Figure 4-4: Earth Grounding Adapter Assembly for DCS-7050SX3-48YC8 shows the exploded and assembled views.

Figure 4-4: Earth Grounding Adapter Assembly for DCS-7050SX3-48YC8



Note: The chassis is shown upside down in the following figure.

The following switches support external chassis grounding. Identify the location for attaching the adapter or the lug. As shown in the example, the attachment point is on the bottom of the chassis for the switches that support the KIT-GND-EXT-1RU grounding kit.

Table 5: Grounding Kit Adapter Support (1RU)

Switch	Grounding Kit Adapter
DCS-7050QX-32S	Attach ground directly to back
DCS-7050TX-64	Attach ground directly to back
DCS-7050SX-72	
DCS-7050TX-96	
DCS-7050CX3-32S	Attach ground directly to back
DCS-7050CX3M-32S	Attach ground directly to back
DCS-7050SX3-24YC4C-S	KIT-GND-EXT-1RU
DCS-7050TX-48	Attach ground directly to back
DCS-7050SX-64	Attach ground directly to back
DCS-7050TX-72Q	Attach ground directly to back
DCS-7050SX2-72Q	Attach ground directly to back
DCS-7050SX3-48YC12	Attach ground directly to back
DCS-7050TX3-48C8	KIT-GND-EXT-1RU
DCS-7050SX3-48YC8C	KIT-GND-EXT-1RU
DCS-7050QX2-32S	Attach ground directly to back
DCS-7050TX-72	Attach ground directly to back
DCS-7050SX-72Q	
DCS-7050SX-96	
DCS-7050SX3-48YC8	KIT-GND-EXT-1RU
DCS-7050SX3-48C8	KIT-GND-EXT-1RU

1. Identify all the components to be assembled:
   - 1x Grounding adapter
   - 1x Grounding bracket
   - 2x Flat-head screws (Phillips,M4 x 5.00 long, stainless steel)
   - 2x Hex nuts (#10-32, Serrated Flange, stainless steel)
   - 1x Grounding lug (Copper, 2-hole, 6 AWG, straight barrel)
2. Insert the grounding adapter through the holes in the grounding bracket.
3. Insert the ground lug onto the grounding adapter studs and fasten using the hex nuts to form the grounding assembly.
4. With the chassis on its top on a flat surface, attach the grounding assembly to the chassis using the flat head screws.
5. Turn the chassis over before mounting it into a rack and connecting cables.

4.3 Connecting Power Cables

This section discusses the correct procedure for connecting the power cables to the device.

Important:

Installation of this equipment must comply with local and national electrical codes. Consult with the appropriate regulatory agencies and inspection authorities to ensure compliance if necessary.

L'installation de cet équipement doit être conforme aux codes électriques locaux et nationaux. Consultez les agences de réglementation et les autorités d'inspection appropriées pour garantir la conformité si nécessaire.

The switch operates with two installed power supplies. At least one power supply must connect to a power source. Two circuits provide redundancy protection. The Rear Panel displays the location of the power supplies on the rear panel of the switch.

Important:

Read all installation instructions before connecting the system to the power source.

Lire toutes les instructions d’installation avant de brancher le système à la source d’alimentation.

- **Non-Redundant Configuration:** Connect power to either of the two power supplies.
- **Redundant Power Supply Configuration:** Connect power to both power supplies.
- **Power down the Switch:** Remove all power cords and wires from the power supplies.

Important:

This equipment must be grounded. Never defeat the ground conductor.

Cet équipement doit être mis à la terre. Ne jamais modifier le conducteur de terre.

Important:

This unit requires overcurrent protection.

Cet appareil requiert une protection contre les surintensités.

4.3.1 AC Power Supplies

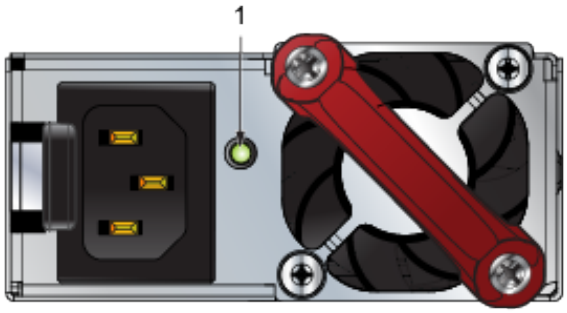
The following AC power supplies are supported.

- PWR-500AC
- PWR-511-AC
- PWR-1011-AC-RED

Note: The handle color indicates the airflow direction for all PSUs.

The Figure 4-5: PWR-500AC AC Power Supply displays the PWR-500AC AC power supply, including the power socket on the left side of the module. The AC power supply connects to a circuit providing the required power, as Table 4: Switch Specifications (Power Draw) specified.

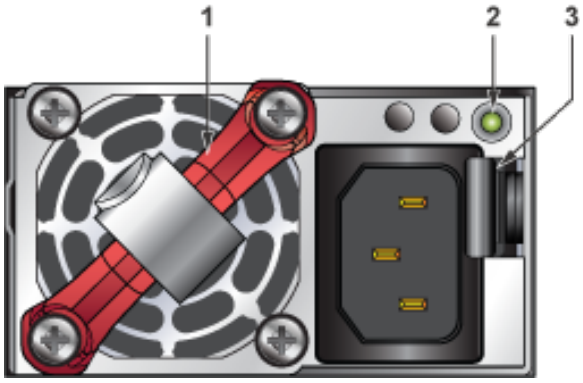
Figure 4-5: PWR-500AC AC Power Supply



1 Power supply status LED

The Figure 4-6: PWR-1011-AC-RED AC Power Supply displays the PWR-1011-AC-RED AC power supply, including the power socket on the right side of the module. The AC power supply connects to a circuit providing the required power, as Table 4: Switch Specifications (Power Draw) specified.

Figure 4-6: PWR-1011-AC-RED AC Power Supply



1 Handle 2 Power supply status LED 3 Release

The power supplies require power cables that comply with IEC-320. The accessory kit provides two IEC-320-compliant power cables with appropriate connectors for the PSUs.

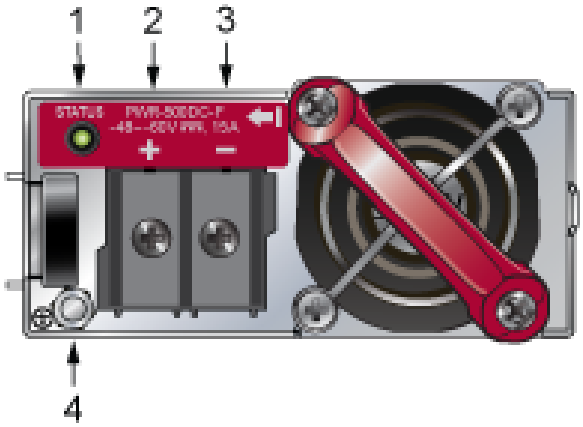
4.3.2 DC Power Supplies

The following DC power supplies are supported. Figure 4-7: PWR-500-DC DC Power Supplies displays PWR-500-DC DC power supply

- PWR-500-DC
- PWR-511-DC
- PWR-1011-DC-RED

Note: The handle color indicates the airflow direction for all PSUs.

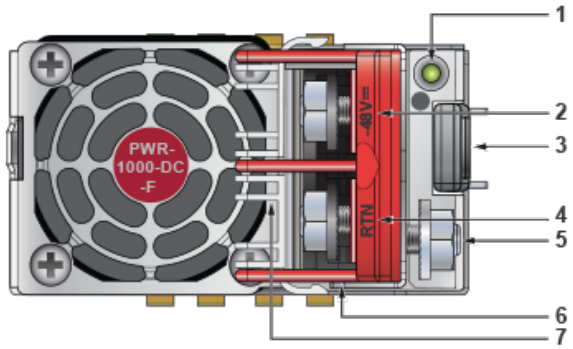
Figure 4-7: PWR-500-DC DC Power Supplies



1 Power supply status LED
2 -48V
3 Battery Return
4 Protective Earth

The Figure 4-8: PWR-1011-DC DC Power Supplies displays the PWR-1011-DC DC power supply.

Figure 4-8: PWR-1011-DC DC Power Supplies



1 Power supply status LED
2 -48V
3 Release
4 Battery Return
5 Protective Earth
6 Handle
7 Terminal cover

Important:

A disconnect device must be provided as part of the installation.

Un dispositif de sectionnement doit être fourni dans le cadre de l'installation.

Important:

Ensure power is removed from DC circuits before performing any installation actions. Locate the disconnect device, circuit breakers, or fuses on DC power lines servicing the circuits. Turn off the power line circuits or remove the fuses.

Pouvoir assurer qu'il est retiré de circuits DC avant d'effectuer des actions d'installation . Localiser les disjoncteurs ou des fusibles sur les lignes de courant continu desservant les circuits. Coupez les circuits de lignes d'alimentation ou retirer les fusibles.

Important:

Wire size must comply with local and national requirements and electrical codes. Use only copper wire.

Le calibre du fil doit être conforme aux exigences locales et nationales et les codes électriques. Utiliser du fil de cuivre.

Important:

Apply ground connection to the switch during installation and remove last when removing power.

Appliquez une connexion à la terre au commutateur pendant l'installation et retirez-la en dernier lors de la mise hors tension.

4.3.3 Connecting the DC Power Supply

4.3.3.1 Wire and Lug Preparation

Before installing, remove power from DC circuits by turning off the power line servicing the circuits. Prepare the stranded wiring before you begin a DC power installation.

Note: Stranded copper wiring is required and should meet local and national installation requirements. Wires and grounding lugs are not supplied.

1. Attach an ESD grounding strap.
2. Prepare the stranded copper wiring for the power supply to be used.
3. Table 6: Wiring, Lug, and Tightening Torques for DC PSUs provide wiring, lug, and tightening torque information for the power supplies covered in this guide.

Table 6: Wiring, Lug, and Tightening Torques for DC PSUs

PSU	Wire Size(1)		Lug Type(2)	Tightening Torque	
	(AWG)	(mm^2)		N • m	in. • lbs.
PWR-500-DC	14 or larger	2.0 or larger	ring or spade/ forkring	1.0	9.0
PWR-511-DC	10 - 12	6.0 - 4.0		1.0	9.0
PWR-1011-DC	6 - 8	16.0 - 10.0		2.7	24

1. Unless otherwise noted, wire size applies to -48V, Battery return, and Protective earth wires.

2. Unless otherwise noted, twin #10 studs spaced for dual-hole lug with 5/8" hole spacing.

4. Strip the wires to the appropriate length for the lugs to be used.
5. Use agency-approved compression (pressure) lugs for wiring terminations.
6. Slip on heat-shrink tubing on the wire ends before assembling the lugs onto the wire.
7. Crimp the lugs with the proper tool, and ensure that the tubing extends over the barrel of the lugs and the insulation on the wires.
8. Shrink the tubing with a heat gun.

4.3.3.2 Connecting a DC Power Supply to a Power Source

To connect a DC power supply to a power source:

Important:

Ensure power is removed from DC circuits before performing any installation actions. Locate circuit breakers or fuses on DC power lines servicing the circuits. Turn off the power line circuits or remove the fuses.

Assurez-vous de pouvoir retirer des circuits en courant continu avant d'effectuer toute action d'installation.Localiser les disjoncteurs ou fusibles sur les lignes électriques DC entretien des circuits. Mettez hors tension le circuit ligne ou retirer les fusibles.

Important:

Wire size must comply with local and national requirements and electrical codes. Use only copper wire.

Calibre doit respecter les exigences locales et nationales et les codes de l'électricité. Utiliser seulement du fil de cuivre.

Important:

Apply the ground connection first during installation and remove it last when removing power.

Appliquez d'abord la connexion à la terre lors de l'installation et retirez-la en dernier lors de la mise hors tension.

1. Prepare the stranded wiring (Wire and Lug Preparation).
2. Attach the appropriate lugs to the source DC wires.
3. Connect the DC-input wires to the appropriate terminals using the specified torque (Wire and Lug Preparation) in the following order.
   a. Ground wire to the Protective Earth (PE) terminal.
   b. Negative source DC cable to the negative (- / -48V) terminal.
   c. Positive (+) source DC cable to the positive (+ / Rtn) terminal.

   Note: Remove terminal covers as needed.
4. Replace the terminal covers as required.

4.4 Connecting Serial and Management Cables

This section discusses the serial and management cable requirements and connections.

The accessory kit includes the following cables:

- RJ-45 to DB-9 serial adapter cable.
- RJ-45 Ethernet cable.

The front or rear panels have the console, management, and USB ports.

Table 7: RJ-45 to DB-9 Connections lists the pin connections of the RJ-45 to DB-9 adapter cable.

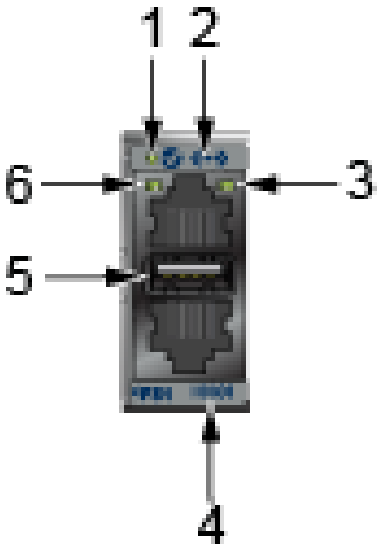
Table 7: RJ-45 to DB-9 Connections

RJ-45		DB-9			RJ-45		DB-9	
RTS	1	8	CTS		GND	5	5	GND
DTR	2	6	DSR		RXD	6	3	TXD
TXD	3	2	RXD		DSR	7	4	DTR
GND	4	5	GND		CTS	8	7	RTS

Note: RJ-45 to DB-9 connections: For models with a console management port on the rear panel, RJ-45 pin 1 (RTS) is connected to RJ-45 pin 8 (CTS); RJ-45 pin 2 (DTR) and RJ-45 pin 7 (DSR) are not electrically connected to any signal.

Figure 4-9: Console, Management, and USB Ports display the console, management, and USB ports in a representative configuration. Some earlier devices had ports where the USB port was located slightly differently.

Figure 4-9: Console, Management, and USB Ports



1 System status LED	3 Activity status LED	5 USB port
2 Ethernet management port	4 Serial console port	6 Link status LED

Connect the front or rear panel ports as follows:

- **Console (Serial) Port:** Connect to a PC with the RJ-45 to DB-9 serial adapter cable. The switch uses the following default settings:
  - 9600 baud
  - No flow control
  - 1 stop bit
  - No parity bits
  - 8 data bits
- **Ethernet Management Port:** Connect to 10/100/1000 management network with RJ-45 Ethernet cable.
- **USB Port:** The USB port may be used for software or configuration updates.

CAUTION:

Excessive bending can damage interface cables, especially optical cables.

Flexion excessive peut endommager les câbles d’interface, notamment des câbles optiques.

Chapter 5

Configuring the Switch

Arista switches ship from the factory in Zero Touch Provisioning (ZTP) mode. ZTP configures the switch without user intervention by downloading a startup configuration file or a boot script from a location specified by a DHCP server.

To manually configure a switch, ZTP is bypassed. The initial configuration provides one username (**admin**) that is accessible only through the console port because it has no password.

When bypassing ZTP, initial switch access requires logging in as **admin**, with no password, through the console port. Then, you can configure an admin password and other password-protected usernames.

This manual configuration procedure cancels ZTP mode, logs into the switch, assigns a password to the **admin**, assigns an IP address to the management port, and defines a default route to a network gateway.

1. Provide power to the switch (Connecting Power Cables).
2. Connect the console port to a PC (Connecting Serial and Management Cables).

   As the switch boots without a ***startup-config*** file, it displays the following through the console:

```
The device is in Zero Touch Provisioning mode and is attempting to
download the startup-config from a remote system. The device will not
be fully functional until either a valid startup-config is downloaded
from a remote system or Zero Touch Provisioning is cancelled. To cancel
Zero Touch Provisioning, login as admin and type 'zerotouch cancel'
at the CLI.

localhost login:
```

3. Log into the switch by typing **admin** at the login prompt.

```
localhost login: admin
```

4. Cancel ZTP mode by typing **zerotouch cancel**.

   Important: This step initiates a switch reboot.

```
localhost> zerotouch cancel
```

5. After the switch boots, log into the switch again by typing **admin** at the login prompt.

```
Arista EOS
localhost login: admin
Last login: Fri Mar 15 13:17:13 on console
```

6. Enter global configuration mode.

```
localhost> enable
localhost# config
```

7. Assign a password to the **admin** username with the **username secret** command.

```
localhost(config)# username admin secret pxq123
```

8. Configure a default route to the network gateway.

```
localhost(config)# ip route 0.0.0.0/0 192.0.2.1
```

9. Assign an IP address (***192.0.2.8/24*** in this example) to an Ethernet management port.

```
localhost(config)# interface management 1
localhost(config-if-Ma1/1)# ip address 192.0.2.8/24
```

10. Save the configuration by typing **`write memory`** or **`copy running-config startup-config`**.

```
localhost# copy running-config startup-config
```

When the management port IP address is configured, use this command to access the switch from a host using the address configured in **Step 9**:

```
ssh admin@192.0.2.8
```

Refer to the *Arista Networks User Manual* for complete switch configuration information.

Appendix A

Status Indicators

This section discusses the following topics:

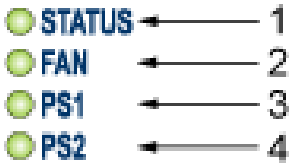
A.1 Front Indicators

Front panel LEDs are located on the right side of the chassis and display system, fan, and power supply status.

A.1.1 Switch Indicators

The front panel LEDs are labeled as shown in the Figure A-1: System Status Indicators or the Figure A-2: System Status Indicators figures. Check your device for the specific method utilized.

Figure A-1: System Status Indicators



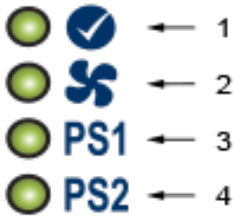
1 System status LED

2 Fan status LED

3 Power supply 1 status LED

4 Power supply 2 status LED

Figure A-2: System Status Indicators



1 System status LED

2 Fan status LED

3 Power supply 1 status LED

4 Power supply 2 status LED

Table 8: Switch Indicators LED States (Front)

LED Name	LED State	Device Status
System Status LED	Blinking Green[1]	System is powering up.
	Green	Normal operations. Due to power supply and fan redundancy, this LED will remain green if a single fan or power supply is missing or in a failed state.
	Blue / Blinking Blue	The locator function is active.
	Amber / Yellow / Orange	Two or more fans (any combination of fan modules or PSU fans) are disconnected, malfunctioning, or incompatible.
Fan Status LED	Green	All fan and power modules are operating normally.
	Amber / Yellow / Orange	Single fan module is removed or malfunctioning. It is also amber when a PSU is completely removed or has a stuck fan rotor.
	Red	Two or more fans (any combination of fan modules or PSU fans) are disconnected or malfunctioning. The switch will automatically execute a “graceful shutdown” shortly.
PSU [1:2] Status LED	Green	PSU is functioning and fully operational. AC is present, Aux output is ON, and Main output is ON.
	Red	PSU has been removed or is not operating properly due to the AC cord being unplugged, its fan rotor being stuck, or an internal fault.

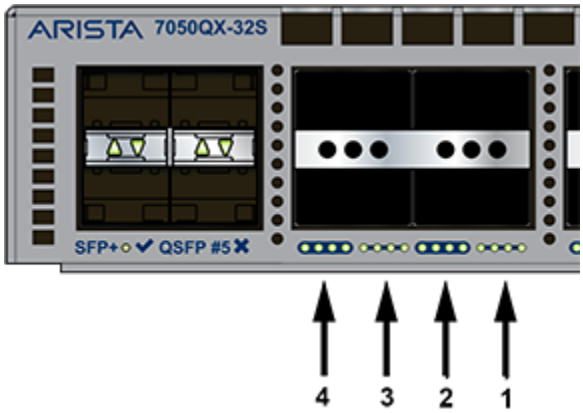
1. The system could take up to ten minutes to boot up and be ready for operation. Other LEDs could be off.

A.1.2 Port Indicators

Port LEDs near their corresponding ports provide a link and operational status.

Figure A-3: Port LEDs display the Port LED location on the DCS-7050QX-32S switch.

Figure A-3: Port LEDs



1 Port 4 LED
2 Port 3 LEDs
3 Port 2 LEDs
4 Port 1 LEDs

Table 9: Port LED States (Front) provides status conditions corresponding to port LED states. Port LED behavior for QSFP+ and SFP+ ports is consistent.

Table 9: Port LED States (Front)

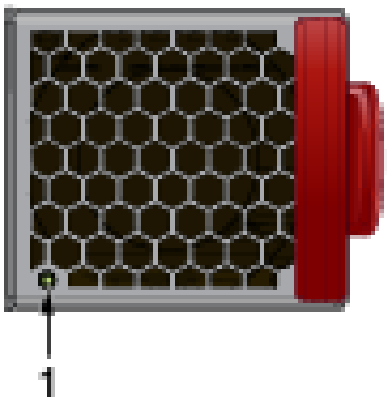
LED State	Status
Off	Port link is down.
Green	Port link is up.
Yellow / Orange / Amber	Port is software disabled.
Flashing Yellow	Software controlled.

A.2 Rear Status Indicators

You can access the fan and power supply modules from the rear panel. Each fan and power supply module contains an LED that reports the module status.

Fan module status LEDs are on the fan modules, as displayed in Figure A-4: Fan Status LED.

Figure A-4: Fan Status LED



1 Fan module status LED

Note: Handle or bezel color indicates airflow direction.

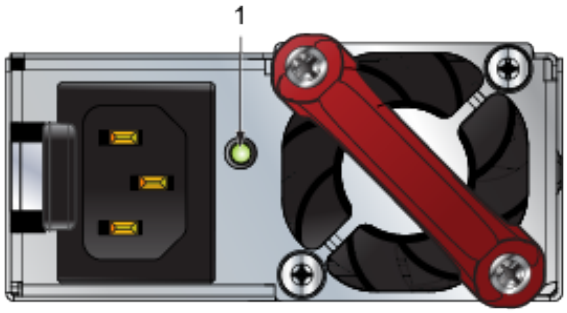
Table 10: Fan Status LED States (Rear) provide conditions corresponding to the fan status LED states.

Table 10: Fan Status LED States (Rear)

LED State	Status
Off	The fan module is not detected. If it is inserted, it may not be seated properly.
Green	The fan is operating normally. This LED state is exclusive to its fan module and independent of the states of its neighboring fans and power supplies.
Red	The fan has failed.

The AC Power Supply Status LEDs are on the power supply modules, as displayed for a representative PSU, in Figure A-5: AC Power Supply Status LED.

Figure A-5: AC Power Supply Status LED



1 Power supply status LED

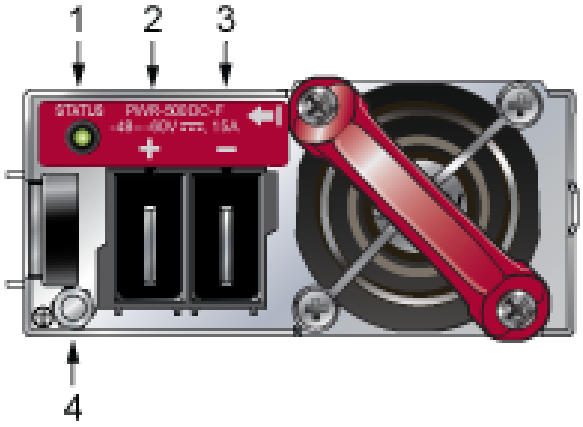
Table 11: AC Power Supply Status LED States (Rear) provides conditions corresponding to the AC power supply status LED states.

Table 11: AC Power Supply Status LED States (Rear)

Power Supply State	PWR-500AC-F PWR-500AC-R	PWR-511-AC-RED PWR-511-AC-Blue
Input power present Normal operation	Green	Green
Input power present Power Supply fault	Yellow / Amber / Orange	Yellow
No Input power Supply installed in chassis	Off	Off
Input power present Supply not installed in chassis	Green	Green

The DC Power Supply Status LEDs are on the power supply modules, as displayed for a representative PSU, in Figure A-6: DC Power Supply Status LED .

Figure A-6: DC Power Supply Status LED



1 Power supply status LED
2 -48V
3 Battery Return
4 Protective Earth

Table 12: DC Power Supply Status LED States (Rear) provides conditions corresponding to the DC power supply status LED states.

Table 12: DC Power Supply Status LED States (Rear)

Power Supply State	**PWR-500-DC-F** **PWR-500-DC-R**	**PWR-511-DC-RED** **PWR-511-DC-Blue**
Input power present Normal operation	Green	Green
Input power present Power Supply fault	Blinking Yellow	Blinking Yellow
No Input power Supply installed in chassis	Off	Off
Input power present Supply not installed in chassis	Blinking Yellow	Blinking Yellow

Note: You can narrow the error condition by logging in to the switch to view the specific device state. Refer to the *Arista User Manual's Switch Environment Control* chapter, under *Viewing Environment Status*, for further information on the **`show environment`** commands.

Appendix B

Parts List

Each switch provides an accessory kit containing the parts required to install the switch. This section lists the installation parts contained in the switch accessory kit.

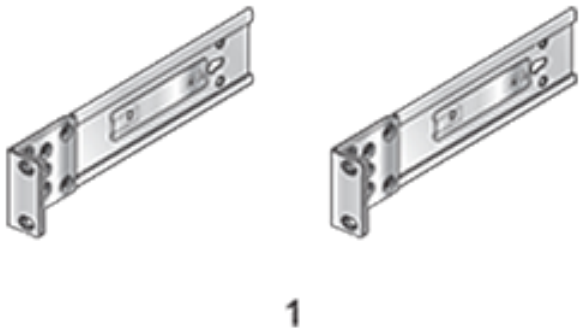
This section discusses the following topics:

B.1 Rack Mount Parts

This section discusses the parts and accessories required for the two-post and four-post installation methods.

B.1.1 Two-Post Rack Mount Parts

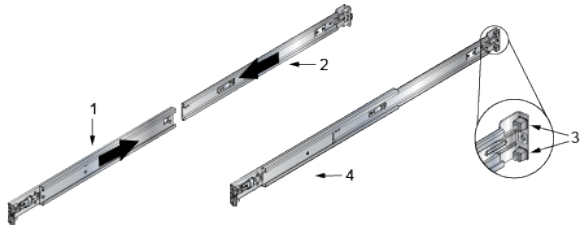
Figure B-1: Two-Post Rack Mount Parts



1 Two-post rack mount parts

B.1.2 Four-Post Rack Mount Parts

Figure B-2: Four-Post Rack Mount Parts



1 Rail-slide
2 Rail-rod
3 Rack plugs (detail)
4 Rail (assembled)

B.2 Cables

This section discusses the cables required to install the device.

Quantity	Description
2	Power cables: IEC-320/C13-C14, 13 A, 250 V
1	RJ-45 Patch Panel Cable
1	RJ-45 to DB9 Adapter Cable

Warning:

All provided power cables are for use only with Arista products.

警告
すべての電源コードは提供する製品で使用するためだけを目的としている。

電源コードの他の製品での使用の禁止
Aristaが提供するすべての電源コードは、Aristaの製品でのみ使用してください。

B.3 Ground Extender Kit (Optional)

This section discusses the optional ground extender kit for NEBS compliance.

SKU	Description
KIT-GND-EXT-1RU[1]	Ground extender kit for NEBS compliance

[1] Available only for certain devices.

Appendix C

Front Panel

This section discusses the front panel of all switches this guide covers.

- Port-Speed Groups
- Front Panels

> **Note:** All devices are designed to fit into a 19” rack. The appearance may differ from those shown based on the PSU and the fan modules used.

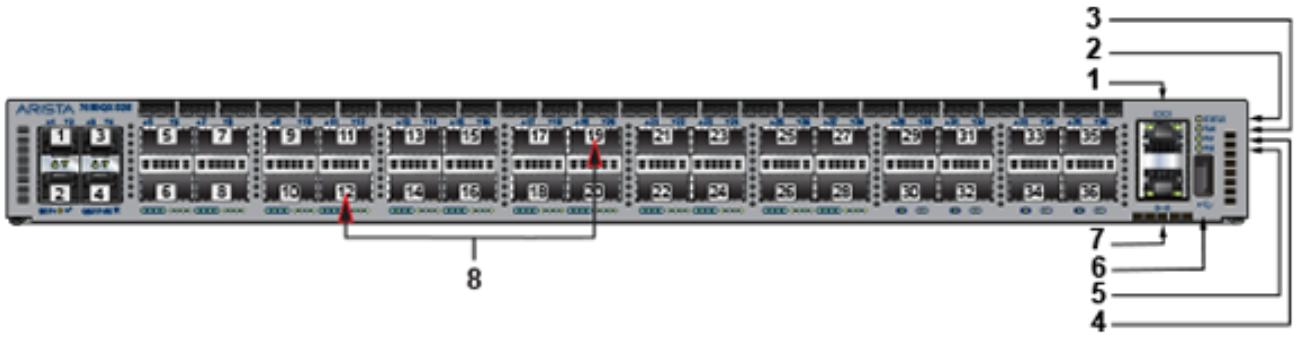
C.1 Port-Speed Groups

For devices that support the port-speed group feature, the groups are called out in the relevant illustrations with the ports in the group identified.

Some of the devices shown in this section have ports that are grouped to provide flexibility in configuring Ethernet speeds for the individual members of the group. The default configuration supports the maximum possible Ethernet speed and other lower allowable speeds by the individual members of the group. Care must be taken when inserting optics for lower-speed connectivity, as further configuration may be required for the port(s) in the group to operate as desired.

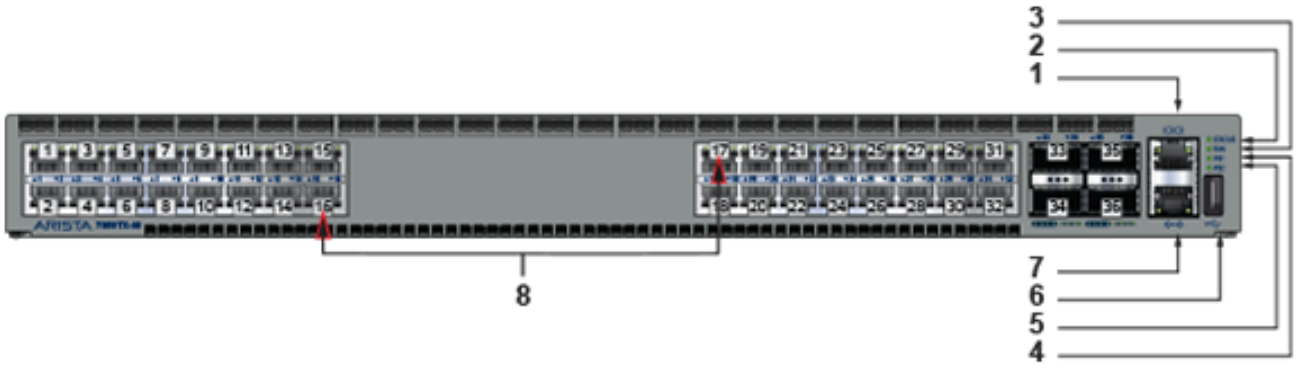
C.2 Front Panels

Figure C-1: DCS-7050QX-32S



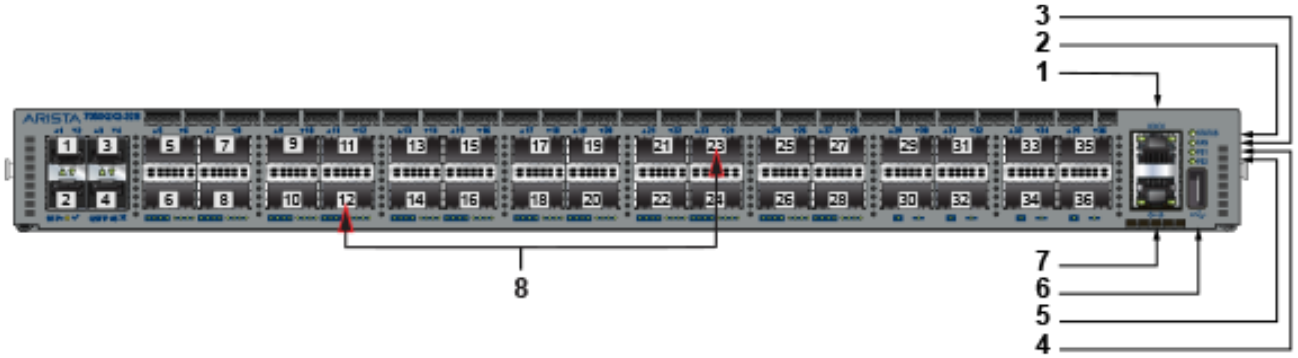
1 Console serial port
2 System status LED
3 Fan status LED
4 Power supply 1 status LED
5 Power supply 2 status LED
6 USB port
7 Ethernet management port
8 Port numbers

Figure C-2: DCS-7050TX-48



1	Console serial port	4	Power supply 1 status LED	7	Ethernet management port
2	System status LED	5	Power supply 2 status LED	8	Port numbers
3	Fan status LED	6	USB port		

Figure C-3: DCS-7050QX2-32S



1	Console serial port	4	Power supply 1 status LED	7	Ethernet management port
2	System status LED	5	Power supply 2 status LED	8	Port numbers
3	Fan status LED	6	USB port		

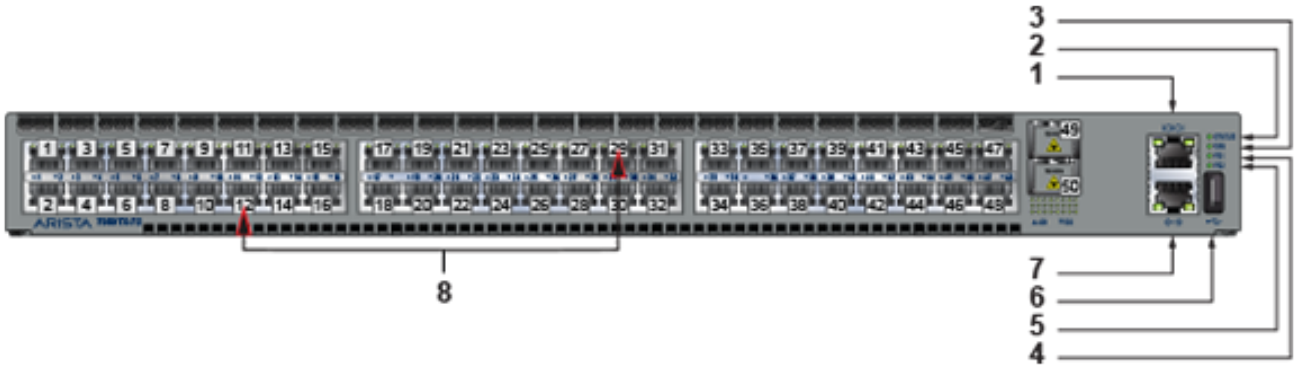
Figure C-4: DCS-7050TX-64

1 Console serial port
2 System status LED
3 Fan status LED
4 Power supply 1 status LED
5 Power supply 2 status LED
6 USB port
7 Ethernet management port
8 Port numbers

Figure C-5: DCS-7050SX-64

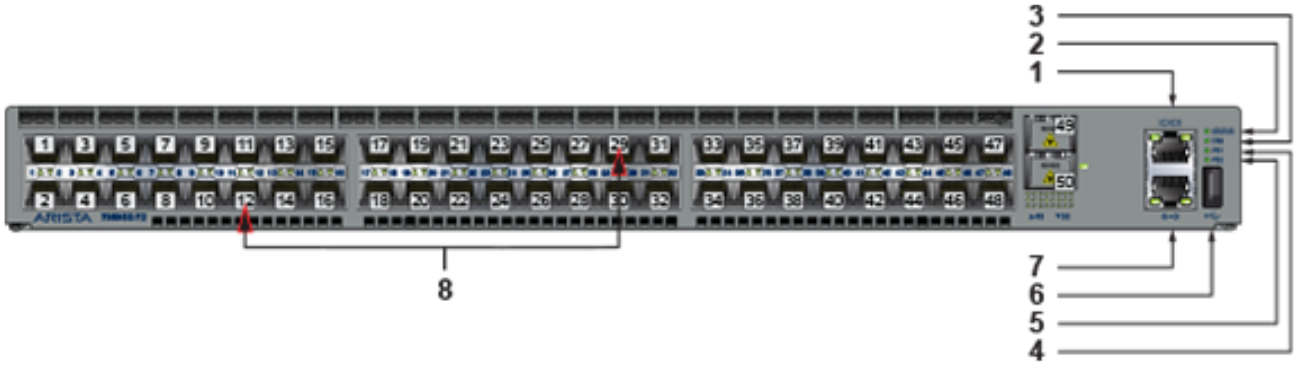
1 Console serial port
2 System status LED
3 Fan status LED
4 Power supply 1 status LED
5 Power supply 2 status LED
6 USB port
7 Ethernet management port
8 Port numbers

Figure C-6: DCS-7050TX-72



1 Console serial port
2 System status LED
3 Fan status LED
4 Power supply 1 status LED
5 Power supply 2 status LED
6 USB port
7 Ethernet management port
8 Port numbers

Figure C-7: DCS-7050SX-72



1 Console serial port	4 Power supply 1 status LED	7 Ethernet management port
2 System status LED	5 Power supply 2 status LED	8 Port numbers
3 Fan status LED	6 USB port	

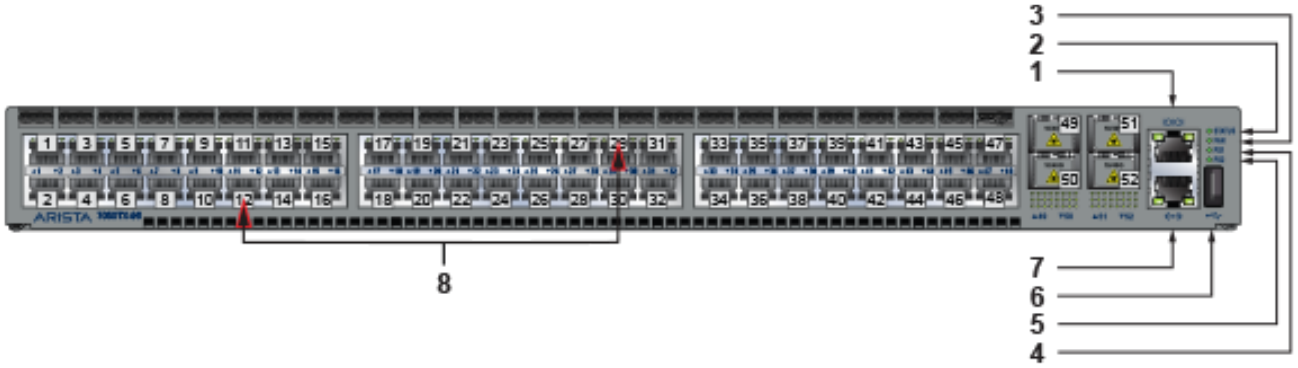
Figure C-8: DCS-7050TX-72Q

1 System status LED	3 Power supply 1 status LED	5 USB port
2 Fan status LED	4 Power supply 2 status LED	6 Port numbers

Figure C-9: DCS-7050SX-72Q

1 System status LED	3 Power supply 1 status LED	5 USB port
2 Fan status LED	4 Power supply 2 status LED	6 Port numbers

Figure C-10: DCS-7050TX-96

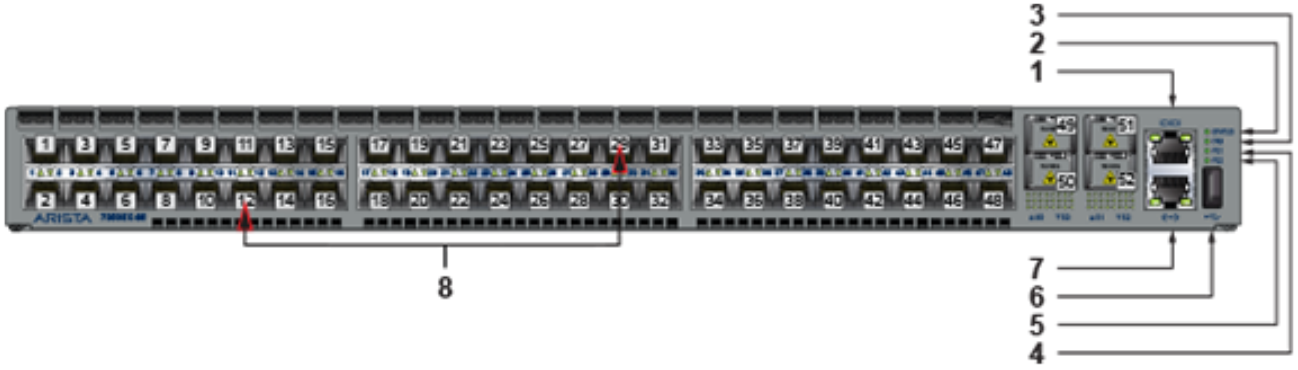


1 Console serial port
2 System status LED
3 Fan status LED
4 Power supply 1 status LED
5 Power supply 2 status LED
6 USB port
7 Ethernet management port
8 Port numbers

Figure C-11: DCS-7050SX2-72Q

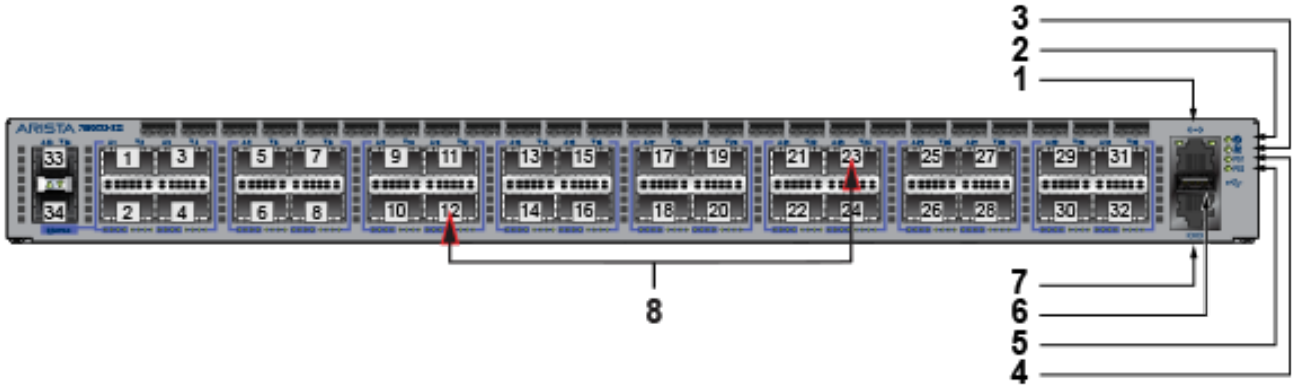
1 System status LED
2 Fan status LED
3 Power supply 1 status LED
4 Power supply 2 status LED
5 USB port
6 Port numbers

Figure C-12: DCS-7050SX-96



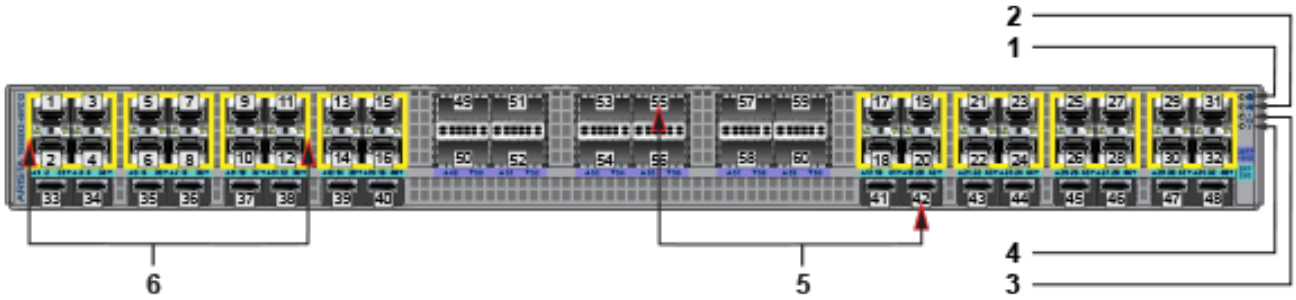
1 Console serial port
2 System status LED
3 Fan status LED
4 Power supply 1 status LED
5 Power supply 2 status LED
6 USB port
7 Ethernet management port
8 Port numbers

Figure C-13: DCS-7050CX3-32S



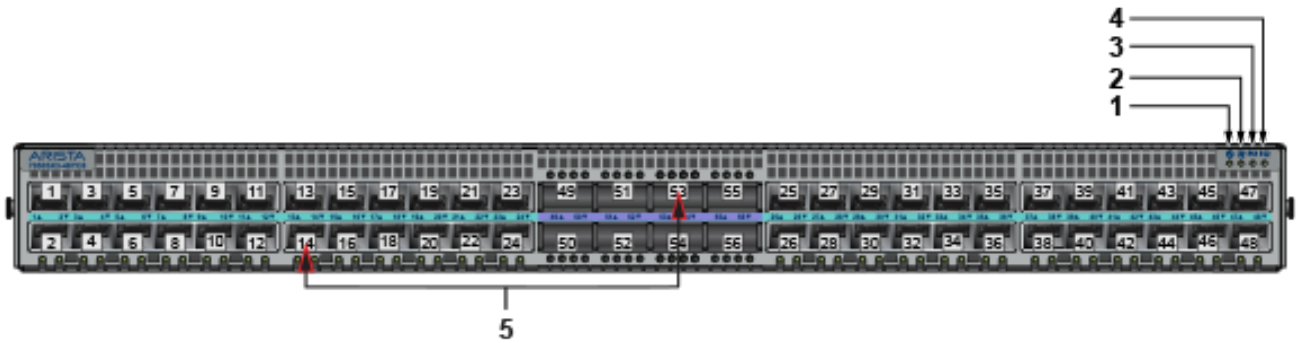
1 Ethernet management port
2 System status LED
3 Fan status LED
4 Power supply 1 status LED
5 Power supply 2 status LED
6 USB port
7 Console serial port
8 Port numbers

Figure C-14: DCS-7050SX3-48YC12



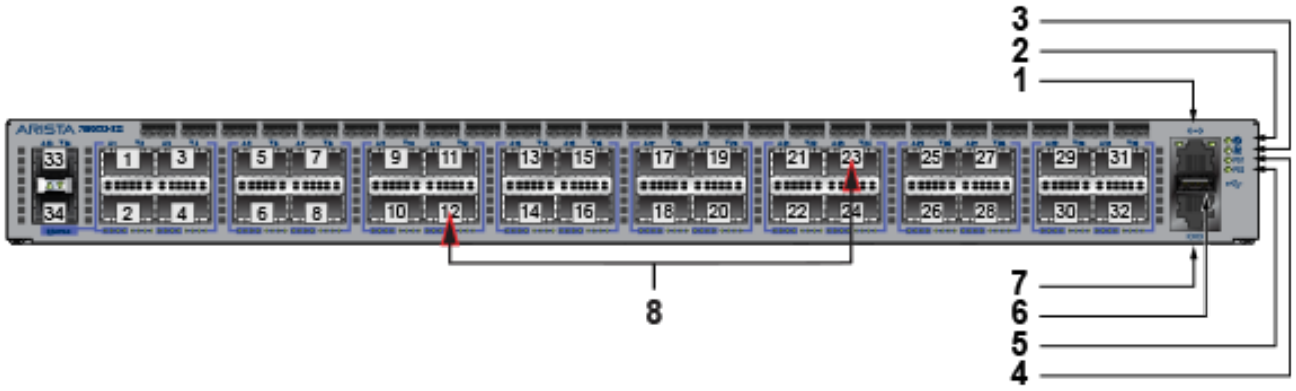
1 System status LED
2 Fan status LED
3 Power supply 1 status LED
4 Power supply 2 status LED
5 Port numbers
6 Port-speed group

Figure C-15: DCS-7050SX3-48YC8



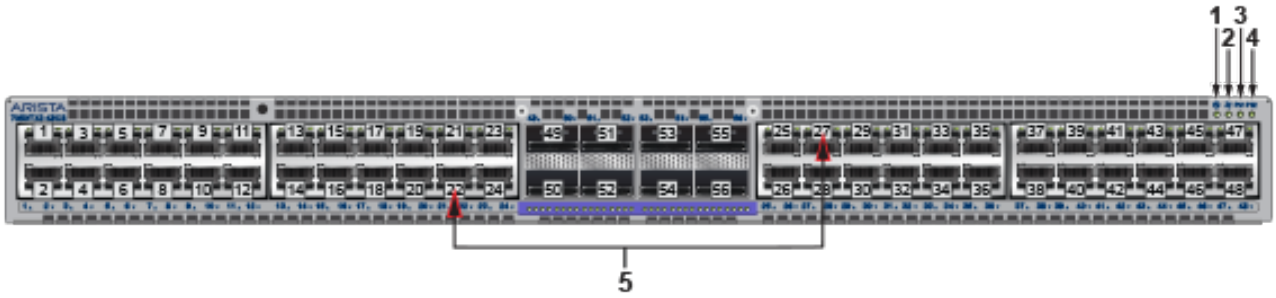
1 System status LED
2 Fan status LED
3 Power supply 1 status LED
4 Power supply 2 status LED
5 Port numbers

Figure C-16: DCS-7050CX3M-32S



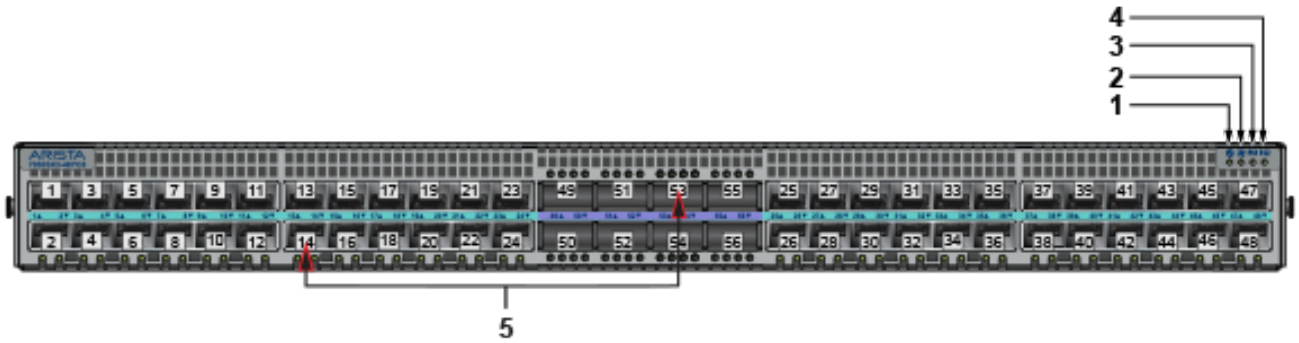
1 Ethernet management port	4 Power supply 1 status LED	7 Console serial port
2 System status LED	5 Power supply 2 status LED	8 Port numbers
3 Fan status LED	6 USB port	

Figure C-17: DCS-7050TX3-48C8



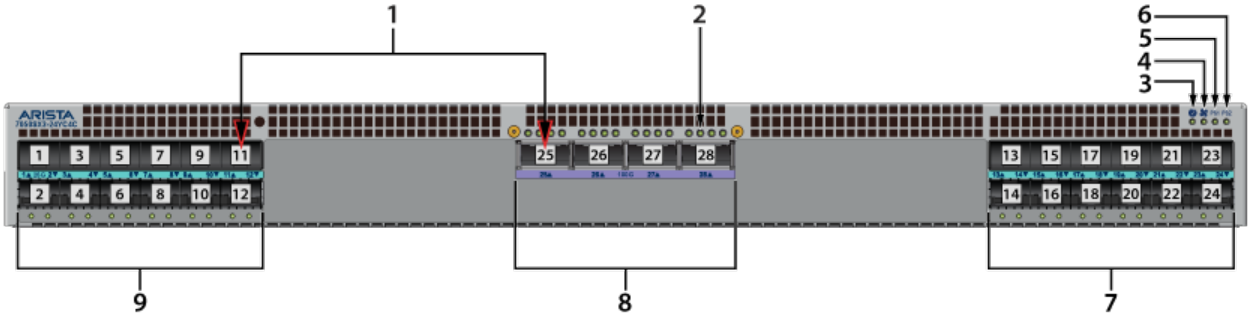
1 System status LED	3 Power supply 1 status LED	5 Port numbers
2 Fan status LED	4 Power supply 2 status LED	

Figure C-18: DCS-7050SX3-48C8



1 System status LED	3 Power supply 1 status LED	5 Port numbers
2 Fan status LED	4 Power supply 2 status LED	

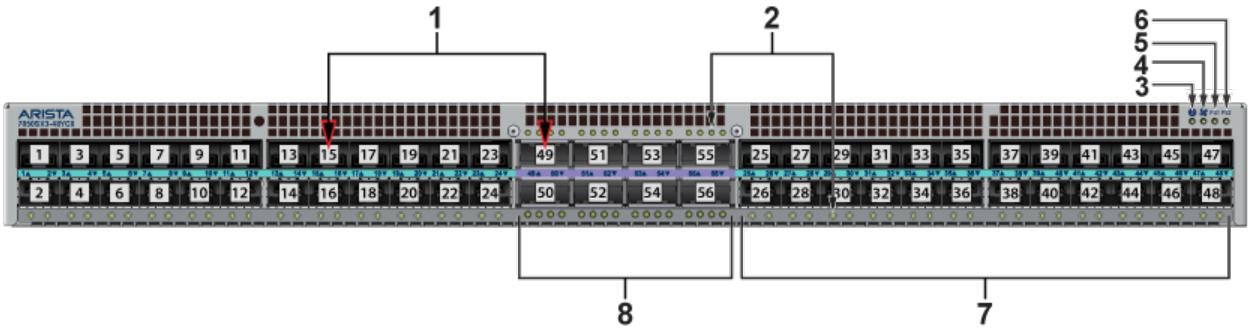
Figure C-19: DCS-7050SX3-24YC4C-S



1	Port numbers	4	Fan status LED	7	25GbE SFP ports
2	Port status LED	5	Power supply 1 status LED	8	100GbE QSFP ports
3	System status LED	6	Power supply 2 status LED	9	25GbE SFP ports

Note: The face-plate on the DCS-7050SX3-24YC4C-S switch is 7050SX3-24YC4C.

Figure C-20: DCS-7050SX3-48YC8C



1	Port numbers	4	Fan status LED	7	25GbE SFP ports
2	Port status LED	5	Power supply 1 status LED	8	100GbE QSFP ports
3	System status LED	6	Power supply 2 status LED		

Appendix D

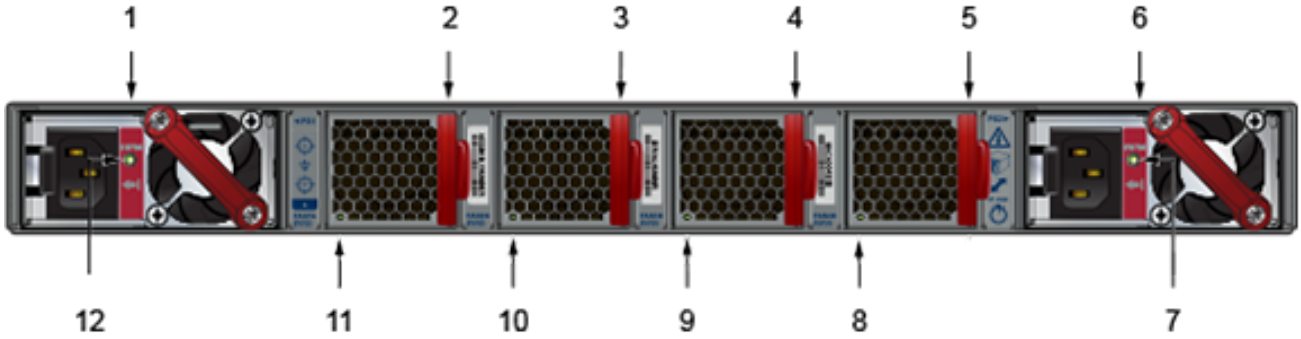
Rear Panel

All switches covered by this guide use one of the rear panels shown below. Depending on the installed power supply module, the appearance could differ from those shown.

Note: All devices are designed to fit into a 19” rack. The appearance may differ from those shown based on the PSU and the fan modules used.

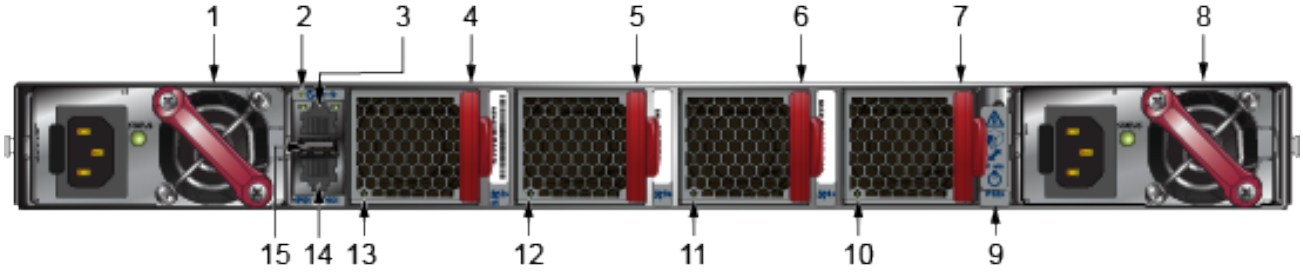
Note: Handle or label color indicates airflow direction.

Figure D-1: Rear Panel for Models with Management Ports in the Front



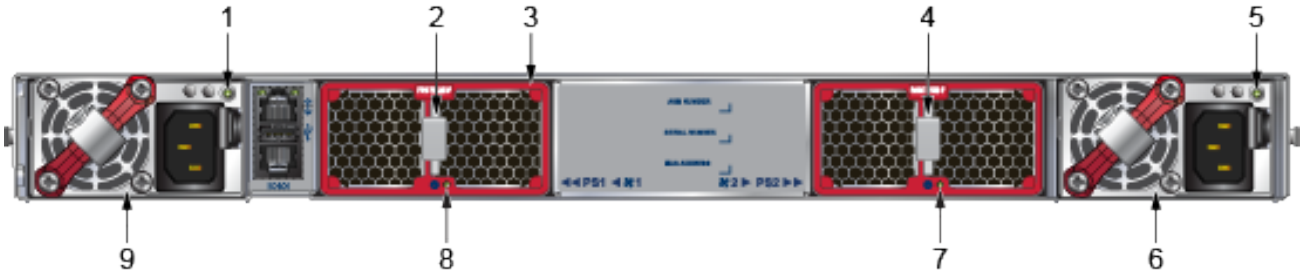
1	Power supply module 1	5	Fan module 4	9	Fan module 3 status LED
2	Fan module 1	6	Power supply module 2	10	Fan module 2 status LED
3	Fan module 2	7	PSU module 2 status LED	11	Fan module 1 status LED
4	Fan module 3	8	Fan module 4 status LED	12	PSU module 1 status LED

Figure D-2: Rear Panel for Models with Management Ports in the Rear



1 Power supply module 1
2 System status LED
3 Ethernet management port
4 Fan module 1
5 Fan module 2
6 Fan module 3
7 Fan module 4
8 Power supply module 2
9 Earth grounding pad
10 Fan module 4 status LED
11 Fan module 3 status LE
12 Fan module 2 status LED
13 Fan module 1 status LED
14 Console serial port
15 USB port

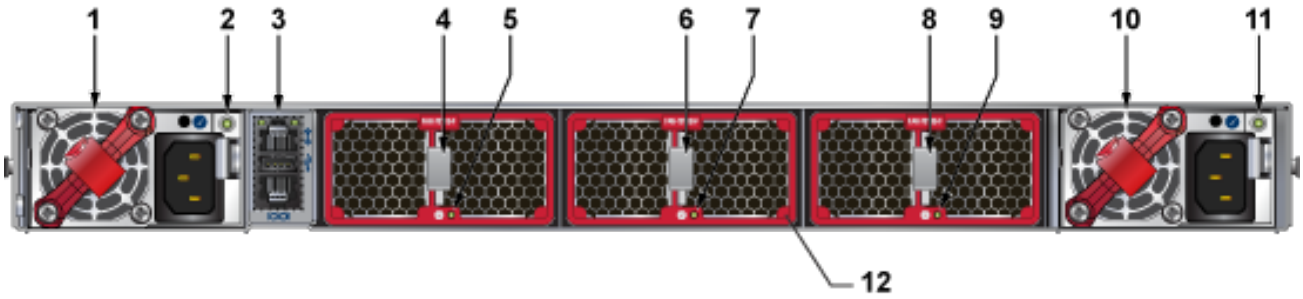
Figure D-3: Rear Panel for Models with Management Ports in the Rear and two Dual-fan Modules



1 Power supply 1 status LED
2 Fan module 1 handle
3 Fan module bezel[1]
4 Fan module 2 handle
5 Power supply 2 status LED
6 Power supply 2
7 Fan module 2 status LED
8 Fan module 1 status LED
9 Power supply 1

1. The bezel and handle color indicate airflow direction.

Figure D-4: Rear Panel for Models with Management Ports in the Rear and three Dual-fan Modules



1 Power supply module 1
2 Power supply module 1 status LED
3 Management ports
4 Fan module 1 release
5 Fan module 1 status LED
6 Fan module 2 release
7 Fan module 2 status LED
8 Fan module 3 release
9 Fan module 3 status LED
10 Power supply module 2
11 Power supply module 2 status LED
12 Fan module bezel[1]

1. Bezel and handle color indicate airflow direction.

Appendix E

Maintenance and Field Replacement

This section discusses the following topics:

E.1 Considerations

Tips and requirements for maintenance issues.

- All fans and power supplies are hot-swappable.
- The switch can be running while a power supply is being installed or removed, but the power supply being replaced must not be connected to a power source.
- All slots must be filled or covered with a blank for operation (even though the power supply or fans may not be functional).
- Before you begin, refer to the *Arista Networks document Safety Information and Translated Safety Warnings* at https://www.arista.com/en/support/product-documentation.

Note: Descriptions for removing and replacing power supplies and fans are for a representative power supply or fan. Locations of status indicator LEDs may differ. Refer to your device's front and rear panel illustrations to locate the appropriate LED.

E.2 Power Supplies

The following steps are required when removing and replacing power supplies from a switch.

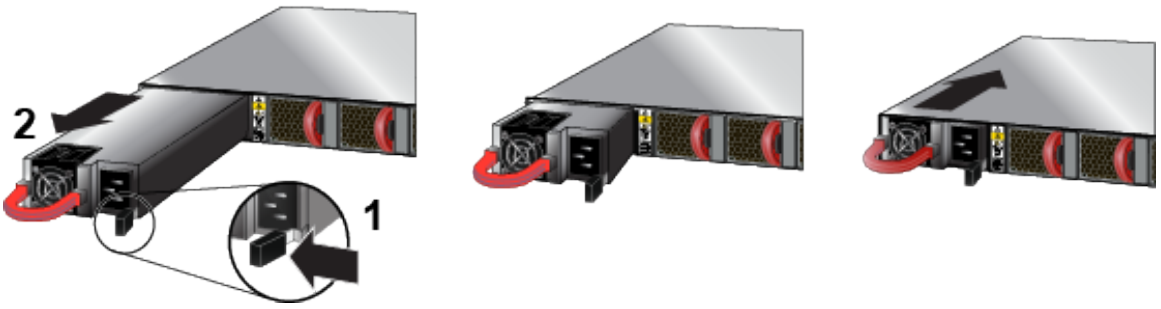
Note: Only a representative power supply module is shown in Figure E-1: Removing and Installing Power Supply. For the location of the power supply on your switch, refer to Rear Panel.

E.2.1 Removing a Power Supply

Complete the following steps to remove a power supply.

1. Ground yourself with an ESD wrist strap.
2. Power down the power supply, which will be removed by disconnecting the AC power cable.
3. Push the power supply release lever and remove the power supply.

Figure E-1: Removing and Installing Power Supply



1 Release lever

2 Remove PSU

E.2.2 Installing a Power Supply

You must make space for installing the power supply by removing an existing one (Removing a Power Supply).

To install a power supply, complete the following steps:

1. Remove the replacement power supply from its packaging.
2. Slide the new power supply into the empty slot.
3. Slide the new power supply into the switch until the power supply is fully seated and the release lever snaps into place (Removing a Power Supply).
4. Connect the power cord to the power supply.
5. Verify the LED(s) on the power supply.

> **Note:** The Power Supply status LED should be a steady green for normal operation.

6. Verify the new power supply operation by issuing the **`show environment power`** command.

```
switch# show environment power
```

The command output lists the power supplies in operation and includes the one you replaced.

E.3 Fan Modules

Fan module requirements when hot-swapping the modules.

> **Note:** Hot-swap fans within 30 seconds to prevent the switch from overheating. Ensure that the module you replace matches those already installed in the switch.

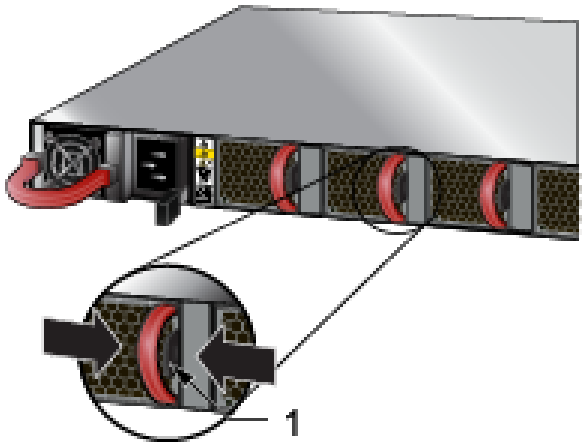
E.3.1 Removing a Fan Module

The following steps are required when removing or replacing fans from a switch.

Note: Only a representative fan module is shown in Figure E-2: Removing Fan Module. Refer to the rear panel for the location of the fan modules on your switch.

1. Ground yourself with an ESD wrist strap.
2. Push the fan module release lever and slide the fan module out of the switch (Figure E-2: Removing Fan Module).

Figure E-2: Removing Fan Module



1 Release lever

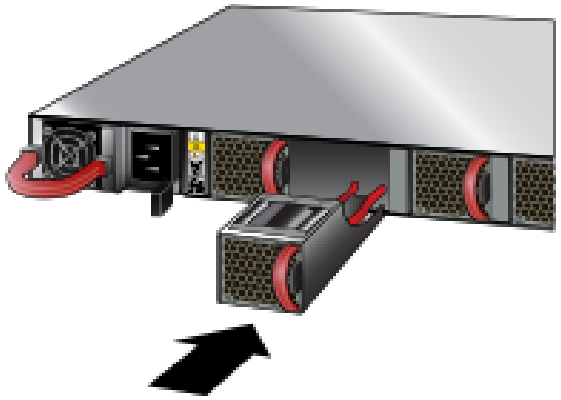
E.3.2 Installing a Fan Module

You must make space for installing the fan module by removing an existing one (Figure E-2: Removing Fan Module).

Complete the following steps to install a fan module.

1. Remove the replacement fan from its packaging.
2. Slide the new fan module into the switch until the module is fully seated and the release lever snaps into place (Figure E-3: Inserting Fan Module).

Figure E-3: Inserting Fan Module



3. Verify that the fan module is working normally.

Note: The fan module status LED should be a steady green for normal operation.

Appendix F

Regulatory Model Numbers

This section lists the Regulatory Model Numbers (RMNs), where applicable, for the product models for the switches described in this document.

Table 13: Regulatory Model Numbers and Product Numbers

Regulatory Model Number (RMN)	Product Number(s)
AN1501	DCS-7050SX-72Q
AN1502	DCS-7050SX2-72Q
AN1704	DCS-7050SX3-48YC12
AN1705	DCS-7050CX3-32S
AN1710	DCS-7050SX3-48YC8 DCS-7050SX3-48C8 DCS-7050SX3-48YC8C
AN1729	DCS-7050CX3M-32S
AN1727	DCS-7050TX3-48C8
AN2409	DCS-7050SX3-24YC4C-S

Appendix G

Taiwan RoHS Information

This section provides the Taiwan RoHS information for switches this guide covers.

台灣RoHS相關資訊請參考下列網址.

https://www.arista.com/assets/data/pdf/AristaBSMIRoHS.pdf