QUICK START GUIDE

720D Series Ethernet Switch
Cognitive Campus Switches

CCS-720DP-48S-2F
CCS-720DT-24S-2F
CCS-720DP-24ZS-2F
CCS-720DT-48S-2R
CCS-720DF-48Y-DC-2F
CCS-720DP-24S-2F
CCS-720DT-24S-2R
CCS-720DP-48S-M-S-2F
CCS-720DT-24S-M-S-2F
CCS-720DP-48ZS-2F
CCS-720DT-48S-2F
CCS-720DF-48Y-M-S-2F
CCS-720DP-24S-M-S-2F
CCS-720DF-48Y-2F

Headquarters	Support	Sales
5453 Great America Parkway Santa Clara, CA 95054 USA +1-408-547-5500	+1-408-547-5502 +1-866-476-0000	+1-408-547-5501 +1-866-497-0000
www.arista.com/en/	support@arista.com	sales@arista.com

Contents

Chapter 1

Overview

This guide is for network or security professionals and technicians who need to install the required Arista 720D Series Ethernet Switch.

This section discusses the following topics:

1.1 Scope

This section lists the devices this guide covers.

Important:

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

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

CCS-720DP-48S-2F	CCS-720DP-48S-M-S-2F
CCS-720DP-24S-2F	CCS-720DP-24S-M-S-2F
CCS-720DT-48S-2F	CCS-720DT-48S-2R
CCS-720DT-24S-2F	CCS-720DT-24S-M-S-2F
CCS-720DT-24S-2R	CCS-720DF-48Y-2F
CCS-720DF-48Y-M-S-2F	CCS-720DF-48Y-DC-2F
CCS-720DP-24ZS-2F	CCS-720DP-48ZS-2F

1.2 Receiving and Inspecting the Equipment

Upon receiving the device, inspect the shipping boxes and record if there is any external damage. Retain the packing equipment if you suspect any part of the shipment is damaged; the carrier might need it inspected.

If the boxes were not damaged during transit, unpack them carefully. Do not discard any accessories that have been packed in the same box as the switch.

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

1.3 Installation Process

This section discusses the steps required to install the switch:

Important:

Class 1 Laser Product: This product has provisions for installing Class 1 laser transceivers that provide optical coupling to the communication network. Once a Class 1 1 laser product is installed, the equipment is a Class 1 Laser Product. 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 a des dispositions pour installer des émetteursrécepteurs de laser de classe 1 qui offre de couplage au réseau de communication optique.Une fois 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 pour sélectionner et installer l'émetteur/récepteur de laser de classe 1 et pour assurer que la classe 1 AEL (limite d'émission admissible) par EN/IEC 60825, CSA E60825-1, et Code des règlements fédéraux 21 CFR 1040 ne soit pas dépassée après avoir installé l'émetteur/récepteur de laser. Ne pas installer des appareils à laser dont la cote de classe est supérieure à 1.Voir toutes les consignes de sécurité qui ont accompagné l'émetteur-récepteur avant l'installation. Seuls appareils laser de classe 1 certifiés pour une utilisation dans le pays d'installation par l'organisme compétent doivent être utilisées dans ce produit.

Important:

Ultimate disposal of this product should be in accordance with national laws and regulations.

Aucune pièce réparable par l'utilisateur à l'intérieur. Confiez toute réparation à un technicien qualifié.

The following steps are to be followed to install the switch:

1. Select 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)

1.4 Safety Information

Refer to the Arista Networks document *Safety Information and Translated Safety Warnings* at https://www.arista.com/en/support/product-documentation.

1.5 Obtaining Technical Assistance

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

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

  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 recent software and documentation, and view FAQs, Knowledge Base articles, Security Advisories, and Field Notices.

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

1.6 Product and Documentation Updates

To receive important news on product updates, visit our website at https://www.arista.com/en/support/product-documentation.

1.7 Specifications

This section lists the specifications of the Arista Ethernet Switches described in this guide.

Table 1: Ethernet Switch Specifications (Dimensions and Weights)

Device	Size (W x H x D)	Weight
CCS-720DP-48S-2F	440 x 43.5 x 430 mm (17.32 x 1.71 x 16.92 inches)	6.73 kg (14.83 lbs)
CCS-720DP-24S-2F	440 x 43.5 x 330 mm (17.32 x 1.71 x 12.99 inches)	5.81 kg (12.80 lbs)
CCS-720DT-48S-2F	440 x 43.5 x 330 mm (17.32 x 1.71 x 12.99 inches)	4.638 kg (10.22 lbs)
CCS-720DT-48S-2R	440 x 43.5 x 330 mm (17.32 x 1.71 x 12.99 inches)	4.638 kg (10.22 lbs)
CCS-720DT-24S-2F	440 x 43.5 x 330 mm (17.32 x 1.71 x 12.99 inches)	4.356 kg (9.60 lbs)
CCS-720DT-24S-2R	440 x 43.5 x 330 mm (17.32 x 1.71 x 12.99 inches)	4.356 kg (9.60 lbs)
CCS-720DF-48Y-2F	440 x 43.5 x 330 mm (17.32 x 1.71 x 12.99 inches)	4.8 kg (10.58 lbs)
CCS-720DF-48Y-DC-2F	440 x 43.5 x 330 mm (17.32 x 1.71 x 12.99 inches)	4.77 kg (10.51 lbs)
CCS-720DP-24ZS-2F	440 x 43.5 x 430 mm (17.32 x 1.71 x 16.92 inches)	6.6 kg (14.55 lbs)
CCS-720DP-48ZS-2F	440 x 43.5 x 430 mm (17.32 x 1.71 x 16.92 inches)	8 kg (17.63 lbs)
CCS-720DF-48Y-M-S-2F	440 x 43.5 x 330 mm (17.32 x 1.71 x 12.99 inches)	4.5 kg (9.92 lbs)
CCS-720DP-48S-M-S-2F	440 x 43.5 x 430 mm (17.32 x 1.71 x 16.92 inches)	6.73 kg (14.83 lbs)
CCS-720DP-24S-M-S-2F	440 x 43.5 x 330 mm (17.32 x 1.71 x 12.99 inches)	5.81 kg (12.80 lbs)
CCS-720DT-24S-M-S-2F	440 x 43.5 x 330 mm (17.32 x 1.71 x 12.99 inches)	4.356 kg (9.60 lbs)

Table 2: Ethernet Switch Specifications (Operational and Storage)

Device	Operating Temperature	Storage Temperature	Operating Altitude	Relative Humidity
CCS-720DP-48S	0 to 40°C (32° to 104°F)	-25 to 70°C (-13 to 158F)	0 to 3,000 meters (0 to 10,000 feet)	5 to 90% (non-condensing)
CCS-720DT-48S	0 to 40°C (32° to 104°F)	-25 to 70°C (-13 to 158F)	0 to 3,000 meters (0 to 10,000 feet)	5 to 90% (non-condensing)
CCS-720DP-24S	0 to 40°C (32° to 104°F)	-25 to 70°C (-13 to 158F)	0 to 3,000 meters (0 to 10,000 feet)	5 to 90% (non-condensing)
CCS-720DT-24S	0 to 40°C (32° to 104°F)	-25 to 70°C (-13 to 158F)	0 to 3,000 meters (0 to 10,000 feet)	5 to 90% (non-condensing)
CCS-720DF-48Y	0 to 40°C (32° to 104°F)	-25 to 70°C (-13 to 158F)	0 to 3,000 meters (0 to 10,000 feet)	5 to 90% (non-condensing)
CCS-720DF-48Y-DC	0 to 40°C (32° to 104°F)	-25 to 70°C (-13 to 158F)	0 to 3,000 meters (0 to 10,000 feet)	5 to 90% (non-condensing)
CCS-720DP-24ZS	0 to 40°C (32° to 104°F)	-25 to 70°C (-13 to 158F)	0 to 3,000 meters (0 to 10,000 feet)	5 to 90% (non-condensing)
CCS-720DP-48ZS	0 to 40°C (32° to 104°F)	-25 to 70°C (-13 to 158F)	0 to 3,000 meters (0 to 10,000 feet)	5 to 90% (non-condensing)

Table 3: Ethernet Switch Specifications (Power Ratings)

Device	Input Power Rating
CCS-720DP-48S-2F	100 - 240V~, 10 - 5A, 50/60 Hz
CCS-720DP-48S-M-S-2F	100 - 240V~, 10 - 5A, 50/60 Hz
CCS-720DP-24S-2F	100 - 240V~, 6 - 3A, 50/60 Hz
CCS-720DP-24S-M-S-2F	100 - 240V~, 6 - 3A, 50/60 Hz
CCS-720DT-48S-2F	100 - 240V~, 1.2-0.6A, 50/60 Hz
CCS-720DT-48S-2R	100 - 240V~, 1.2-0.6A, 50/60 Hz
CCS-720DT-24S-2F	100 - 240V~, 1-0.5A, 50/60 Hz
CCS-720DT-24S-M-S-2F	100 - 240V~, 1-0.5A, 50/60 Hz
CCS-720DT-24S-2R	100 - 240V~, 1-0.5A, 50/60 Hz
CCS-720DF-48Y-2F	100 - 240V~, 2.2-1.1A, 50/60 Hz
CCS-720DF-48Y-M-S-2F	100 - 240V~, 2.2-1.1A, 50/60 Hz
CCS-720DF-48Y-DC-2F	-48 to -60VDC, 4.5-3.6A
CCS-720DP-24ZS-2F	100 - 240V~, 10-5A, 50/60 Hz
CCS-720DP-48ZS-2F	100 - 240V~, 10A, 50/60 Hz

Table 4: Ethernet Switch Specifications (PoE Power Budget)

Device	PoE Power Budget
CCS-720DP-48S	745W
CCS-720DT-48S	N/A
CCS-720DP-24S	380W
CCS-720DT-24S	N/A
CCS-720DF-48Y	N/A
CCS-720DF-48Y-DC	N/A
CCS-720DP-24ZS	730W
CCS-720DP-48ZS	120V: 2x700W 240V: 2x1440W
CCS-720DP-48ZS	120V: 700W 240V: 1500W

Table 5: Ethernet Switch Specifications (System Configurations)

Device	PoE Ports	Downlink Ports	Uplink Ports	Airflow	Power Supply	Fan
CCS-720DP-48S-2F	30W	48x1G RJ45	4x10G SFP+	Front to rear	2	4
CCS-720DP-48S-M-S-2F	30W	48x1G RJ45	4x10G SFP+	Front to rear	2	4
CCS-720DP-24S-2F	30W	24x1G RJ45	4x10G SFP+	Front to rear	2	3
CCS-720DP-24S-M-S-2F	30W	24x1G RJ45	4x10G SFP+	Front to rear	2	3
CCS-720DT-48S-2F	N/A	48x1G RJ45	4x10G SFP+	Front to rear	2	2
CCS-720DT-48S-2R	N/A	48x1G RJ45	4x10G SFP+	Rear to Front	2	2
CCS-720DT-24S-2F	N/A	24x1G RJ45	4x10G SFP+	Front to rear	2	2
CCS-720DT-24S-M-S-2F	N/A	24x1G RJ45	4x10G SFP+	Front to rear	2	2
CCS-720DT-24S-2R	N/A	24x1G RJ45	4x10G SFP+	Rear to front	2	2
CCS-720DF-48Y-2F	N/A	48x1G SFP	4x25G SFP28	Front to rear	2	3
CCS-720DF-48Y-M-S-2F	N/A	48x1G SFP	4x25G SFP28	Front to rear	2	3
CCS-720DF-48Y-DC-2F	N/A	48x1G SFP	4x25G SFP28	Front to rear	2	3
CCS-720DP-24ZS-2F	60W	24x2.5G RJ45	4x10G SFP+	Front to rear	2	4
CCS-720DP-48ZS-2F	60W	48x2.5G RJ45	4x10G SFP+	Front to rear	2	4

Chapter 2

Preparation

This section discusses the initial set up and preparation for installing the switch.

2.1 Site Selection

Consider the following criteria 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.

  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:** The fans and PSUs determine the airflow direction through the switch. The color of the visible handles or labels indicates the airflow direction.

  Orient the switch so that airflow flows from the cooler to the hotter aisle. If the airflow direction is not compatible with the installation site, reorient the fan modules to 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 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 Specifications for information regarding your specific device.

  Important:

  The power input plug-socket combination must be always accessible; 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.

  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.

- **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 that the following guidelines are met:
  - Clearance areas to the front and rear panels allow for unrestricted cabling.
  - All front and rear panel indicators are visualizable.
  - Power cords can reach from the power outlet to the connector on the rear panel.

2.2 Tools and Parts Required for Installation

Each device has 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

- #1 and #3 Phillips head screwdrivers (this may differ based on supplied accessories).
- Screws or rack mounting nuts and bolts.

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

This section provides instructions on how to rack mount the switch.

This section discusses the following topic:

- Two-Post Rack Mount

3.1 Two-Post Rack Mount

This section provides instructions for mounting the switch in a two-post rack.

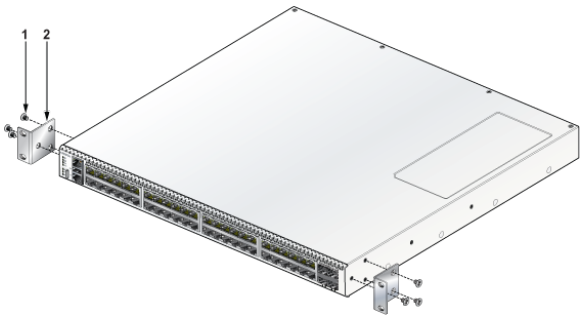
To mount the switch onto a two-post rack, assemble the mounting brackets to the chassis, then attach the brackets to the rack posts. It includes:

- Attaching Mounting Brackets to the Chassis
- Inserting the Switch into the Rack

3.1.1 Attaching Mounting Brackets to the Chassis

This section describes the steps to attach mounting brackets to the switch chassis.

Figure 3-1: Attaching the Mounting Brackets

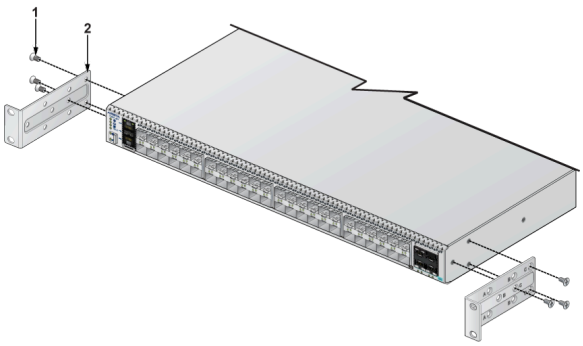


1 Flat head screw M4x6mm

2 L-bracket (MTL-01066)

Figure 3-2: Attaching the Mounting Brackets (CCS-720DF-48Y-DC)

Note: The Extended L-bracket shown in the following image is provided only for the CCS-720DF-48Y-DC model. If required, it can be ordered separately.



1 Flat head screw M4x6mm

2 Extended L-bracket (MTL-05776)

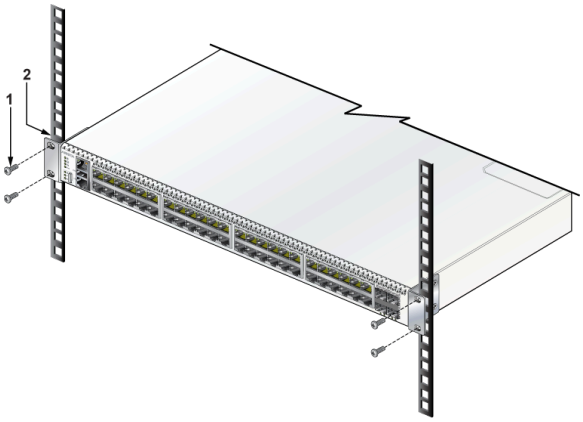
Note: For more information regarding the screw size, refer to Screw Size Details.

1. Position the L-bracket or Extended L-bracket (flush, 1.5" offset, or 2.5" offset) by aligning with the chassis holes on both sides of the switch and fixing it with M4x6mm flat head screws.
2. Secure the mounting brackets firmly to the switch.

3.1.2 Inserting the Switch into the Rack

This section describes the steps to insert the switch into the rack.

Figure 3-3: Inserting the Switch into the Rack

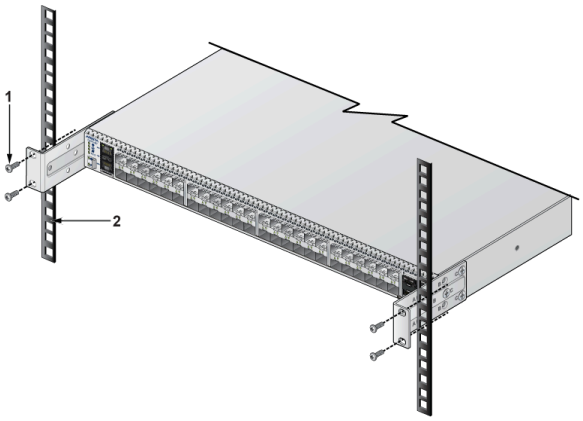


1 Screw M4x25mm (not included in the kit)

2 Two-post rack

Figure 3-4: Inserting the Switch into the Rack (CCS-720DF-48Y-DC)

Note: The Extended L-bracket shown in the following image is provided only for the CCS-720DF-48Y-DC model. If required, it can also be ordered separately.



1 Screw M4x25mm (not included in the kit)

2 Two-post rack

Note: For more information regarding the screw size, refer to Screw Size Details.

Note:

- Lift the chassis, attached with L-brackets, into the rack.
- Place the switch into the rack by aligning it with the mounting bracket.
- Position the flanges against the rack posts, as shown in the earlier figure.
- Attach the bracket flanges to the rack posts.

Chapter 4

Cabling the Switch

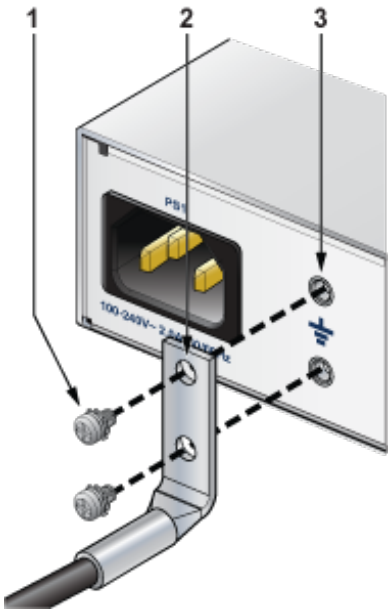
The Cabling the Switch section discusses the following topics:

4.1 Grounding the Switch

This section discusses the importance of grounding the device to the data center ground.

Normally, the functional grounding of the switch is achieved through the input connection. If you would like to do additional grounding, proceed to the following instructions:

Figure 4-1: Grounding the Switch



1 Screw M4 (with washer) 2 Solder terminal lug 3 Grounding point

Note: Grounding wires and grounding lugs are not supplied with the product. The wire size should meet local and national installation requirements.

CAUTION: The grounding connection must only be removed if all supply connections are disconnected.

1. Ensure the rack is properly grounded and complies with ETSI ETS 300 253.

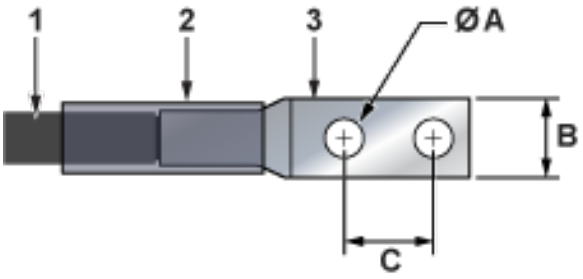
2. Verify a good electrical connection to the grounding point on the rack (no paint or isolating surface treatment).
3. Attach the solder terminal lug to an 18 AWG minimum grounding wire and connect it to the grounding point on the rear panel of the switch.
4. Tighten the M4 screw to secure the lug to the grounding point.
5. Connect the other end of the wire to the nearby grounded surface.

4.1.1 Grounding Lug Preparation

The following procedure connects the chassis to the data center ground:

1. Prepare the (stranded) copper wiring for the ground wire.
2. Use agency-approved compression (pressure) lugs for wiring terminations.
3. Slip on heat-shrink tubing on the wire end before assembling the lugs on to the wire.
4. Crimp the lugs with the proper tool, and ensure that the tubing extends over the barrel of the lug and the insulation on the wire as shown in the following figure.

Figure 4-2: Lug Preparation



1	Insulated wire	2	Heat-shrink tubing	3	Lug (all three terminals)
A	¼"	B	½"	C	⅝"

5. Shrink the tubing with a heat gun.

4.2 Connecting Power Cables

This section discusses the installation requirements 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 assure compliance if necessary.

  Installation de cet équipement doit être conformes aux codes électriques locaux et nationaux. Si nécessaire, consulter les organismes de réglementation appropriés et des autorités de contrôle pour assurer la conformité.

- 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.

- 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.

- This unit requires overcurrent protection.

  Cet appareil requiert une protection contre les surintensités.

4.2.1 Connecting AC Power

This section discusses how to connect the AC power supply to the device.

The AC power supplies are internal to each switch.

Power requirements vary by switch. Refer to the Specifications section for information regarding your specific device.

Rear Panel section displays the location of the power supplies for a specific device.

Power Configurations

- **Non-redundant**: Connect power to either of the two power supplies.
- **Redundant**: Connect each AC power supply to a circuit that provides the required power.

Note: Remove all power cords and wires from the power supplies to power down the switch. Input power and power supply redundancy is dependent on the actual system power draw.

Each power supply should be connected to its own input overcurrent protection for maximum input power redundancy.

Use power supply cables that comply with IEC-320 and have a C13 plug.

4.2.2 Connecting DC Power

This section discusses how to connect the DC power supply to the device.

The DC power supplies are internal to each switch.

Power requirements vary by switch. Refer to the Specifications section for information regarding your specific device.

Rear Panel section displays the location of the power supplies for the specific device. There is a cover over the DC supply terminals.

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.

- 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.

- 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.

- Apply the grounding connection prior to installation and remove it after disconnecting the power.

  Appliquer connexion à la terre à l'interrupteur premier lors de l'installation et de supprimer la dernière alimentation lors du débranchement.

Power Configurations

- **Non-redundant:** Connect power to either of the two power supplies.
- **Redundant:** Connect each DC power supply to a circuit that provides the required power.

4.2.3 Connecting DC Power Supply to Power Source

This section discusses connecting the DC power supply to the power source.

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.

- Apply the ground connection prior to installation and remove it after disconnecting the power.

  Appliquer le motif connexion tout d’abord pendant l’installation et supprimer dernière lors du retrait de puissance.

To connect a DC power supply to the power source, follow the steps below:

1. Remove the terminal cover to expose the connectors on the terminal block on the face.
2. Attach the appropriate lugs to the source DC wires.

   Use DC cables with insulated crimp-on spade lugs or crimp-on ring connectors.
3. Connect the DC-input wires to the terminal block in this order:
   a. Ground cable to the ground connector on the terminal block.
   b. Negative (–) source DC cable to the negative (–) connector on the terminal block.
   c. Positive (+) source DC cable to the positive (+) connector on the terminal block.
   d. Torque the screws as specified in the following table.

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

Wire Size		Lug Type	Tightening Torque	
AWG	mm2		N.m	lbs
14 to 18	1.5 to 0.75	ring	0.8	7.0

4. Replace the terminal cover.

4.3 Connecting Serial and Management Cables

This section discusses the type of cables required to connect the device.

The accessory kit includes the following cables:

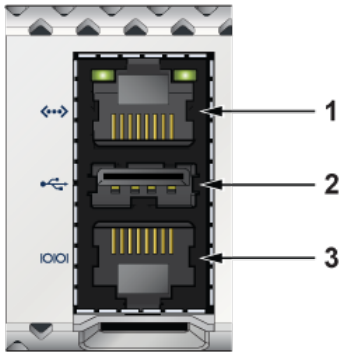
- RJ-45 to DB-9 serial adapter cable
- RJ-45 Ethernet cable

The following RJ-45 to DB-9 table 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

Figure 4-3: Front Panel Ports



1 Ethernet Management Port 2 USB Port 3 Console Serial Port

Connect the front panel ports as described below:

- **Console (Serial) Port:** Connect to a computer 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.

Important:

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 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
```

11. 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.

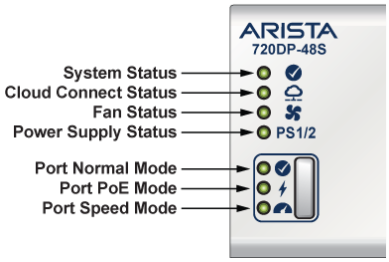
Note: The device configuration does not stream voltage and current data.

Status Indicators

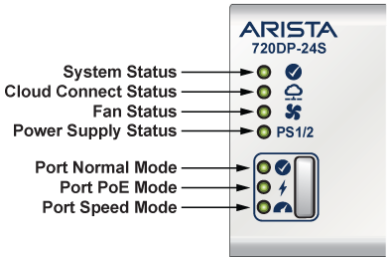
This section describes the front panel LED status of the device.

LED Status Indicators

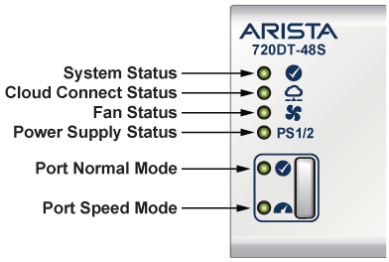
CCS-720DP-48S-2F



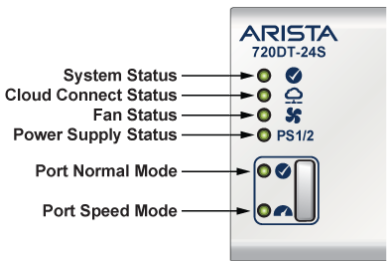
CCS-720DP-24S-2F



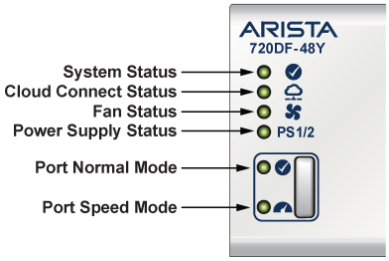
CCS-720DT-48S-2F/-2R



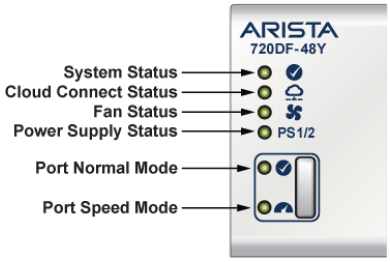
CCS-720DT-24S-2F



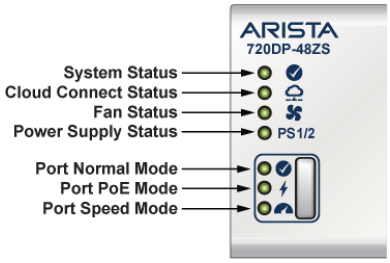
CCS-720DF-48Y-2F



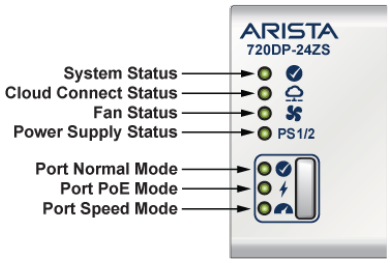
CCS-720DF-48Y-DC-2F



CCS-720DP-48ZS-2F



CCS-720DP-24ZS-2F



CCS-720DT-24S-2R

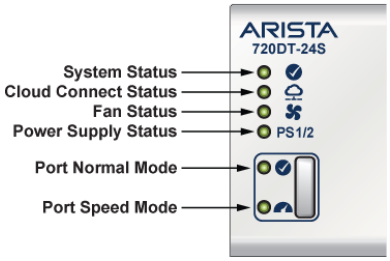


Table 8: LED Status

LED Name	LED State	Device Status
System Status LED	Off	No power or in the midst of a power cycle.
	Blinking Green	The system is powering up.
	Green	The system is operating in a normal initialization sequence. Normal operations.
	Blue	The locator function is active.
	Amber	The system is malfunctioning. The system is overheating, or temperature sensors have recorded passing the software-defined critical threshold. The switch will automatically execute a “graceful shutdown” shortly.
Cloud Connect Status LED	Off	Not connected to the cloud.
	Green	The system is connected to the cloud.
	Amber	Problem connecting to the cloud.
Fan Status LED	Green	All fan modules are operating normally.
	Amber	The single fan module is malfunctioning.
Power Supply Status LED	Off	The power supply unit is not available.
	Green	The power supply unit is fully functional.
	Amber	The power supply unit has a fault.
Port Normal Mode LED	Off	Normal mode is not selected.
	Green	Port LED is selected to indicate port link status (normal mode).
Port PoE Mode LED (CCS-720DP-48S, CCS-720DP-24S, CCS-720DP-24ZS, CCS-720DP-48ZS)	Off	PoE mode is not selected.
	Green	Port LED is selected to indicate port PoE status.
Port Speed Mode LED	Off	Speed mode is not selected.
	Green	Port LED is selected to indicate port speed.

Table 9: Port LED Modes

Port LEDs	Normal Mode		PoE Mode		Speed Mode	
1GE RJ45 Port LED	Off	Port link is down	Off	No PoE	Blinking Amber	10M
	Green	Port link is up	Blinking Amber	15W	Amber	100M
	Amber	Port is software disabled	Amber	30W	Green	1G
2.5GE RJ45 Port LED	Off	Port link is down	Off	No PoE	Blinking Amber	100M
	Green	Port link is up	Blinking Amber	15W	Amber	1G
	Amber	Port is software disabled	Amber	30W	Green	2.5G
			Blinking Green	60W		
SFP+ Port LED	Off	Port link is down	Off	No PoE	Blinking Amber	100M
	Green	Port link is up			Amber	1G
	Amber	Port is software disabled			Green	10G
SFP28 Port LED	Off	Port link is down	Off	No PoE	Blinking Amber	1G
	Green	Port link is up			Amber	10G
	Amber	Port is software disabled			Green	25G

Chapter 7

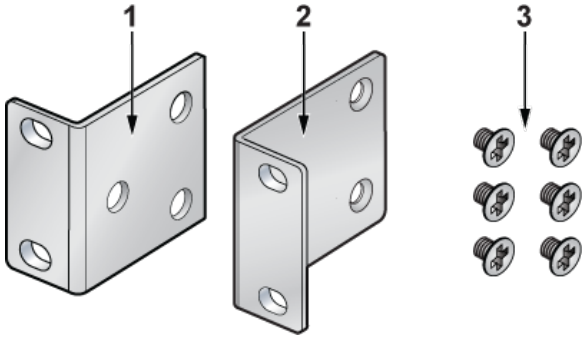
Parts List

This section lists the installation parts contained in the switch accessory kit. Each device has an accessory kit that contains the necessary parts to install the switch.

Two-post Rack Mount

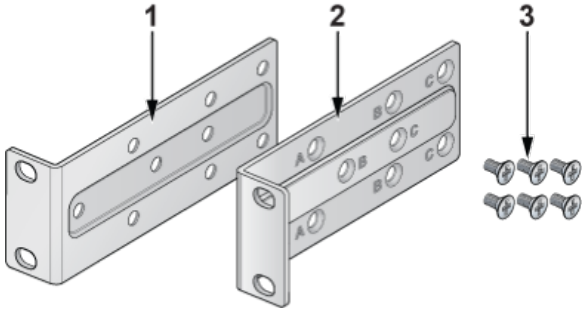
The following accessories are available along with the device:

- **Figure 7-1: Two-post Rack Mount Kit Parts**



1 L-bracket (left) 2 L-bracket (right) 3 Flat head screw M4x6mm

Figure 7-2: Two-post Rack Mount Kit Parts (CCS-720DF-48Y-DC)



1 L-bracket (left) 2 L-bracket (right) 3 Flat head screw M4x6mm

- Console Cables
  - CBL-00100 RJ45 <-> RJ45 CAT5E Ethernet cable
  - CBL-00002 RJ45 <-> DB9 console cable
- Power cable (specified during time of purchase as it's country-specific or no power cord)

Optional Accessories

The following are the optional accessories and should be ordered separately if required:

Spare SKU	Description
KIT-720	Spare Accessory kit for Arista 720D Series 1RU Switches
KIT-7010-4Post	Spare 4-post rack mount kit for 7010 switches

SKU and Product Details

The following are the list of SKU numbers related to the respective product.

Table 10: SKU and Product Details

SKU	Product Description
CCS-720DP-48S-2F	Arista 720DP, 48x1G PoE, 4x10G SFP+ switch, front to rear air, 2x950W AC
CCS-720DP-48S-M-S-2F	Arista 720DP, 48x1G POE, 4x10G SFP+ switch, expanded memory, front to rear air, 2x950W AC
CCS-720DP-24S-2F	Arista 720DP, 24x1G PoE, 4x10G SFP+ switch, front to rear air, 2x460W AC
CCS-720DP-24S-M-S-2F	Arista 720DP, 24x1G POE, 4x10G SFP+ switch, expanded memory, front to rear air, 2x460W AC
CCS-720DT-48S-2F	Arista 720DT, 48x1G, 4x10G SFP+ switch, front to rear air, 2x100W AC
CCS-720DT-48S-2R	Arista 720DT, 48x1G, 4x10G SFP+ switch, rear to front air, 2x100W AC
CCS-720DT-24S-2F	Arista 720DT, 24x1G, 4x10G SFP+ switch, front to rear air, 2x100W AC
CCS-720DT-24S-M-S-2F	Arista 720DT, 24x1G, 4x10G SFP+ switch, expanded memory, front to rear air, 2x100W AC
CCS-720DT-24S-2R	Arista 720DT, 24x1G, 4x10G SFP+ switch, rear to front air, 2x100W AC
CCS-720DF-48Y-2F	Arista 720DF, 48x1G SFP, 4x25G SFP28 switch, front to rear air, 2x200W AC
CCS-720DF-48Y-M-S-2F	Arista 720DF, 48x1G SFP, 4x25G SFP28 switch, expanded memory, front to rear air, 2x200W AC
CCS-720DP-24ZS-2F	Arista 720DP, 24x2.5G PoE, 4x10G SFP+ switch, front to rear air, 2x950W AC
CCS-720DP-48ZS-2F	Arista 720DP, 48x2.5G PoE, 4x10G SFP+ switch, front to rear air, 2x1800W AC
CCS-720DF-48Y-DC-2F	Arista 720DF, 48x1G SFP, 4x25G SFP28 switch, front to rear air, 2x240W DC

Chapter 8

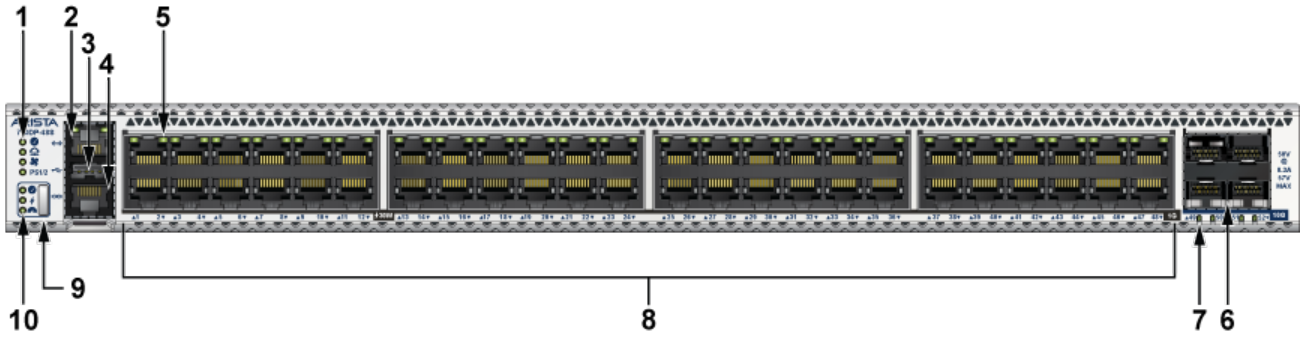
Front Panel

This section discusses the front panel of the Ethernet Switch.

8.1 CCS-720DP-48S

The CCS-720DP-48S front panel includes the following key components:

Figure 8-1: CCS-720DP-48S Front Panel

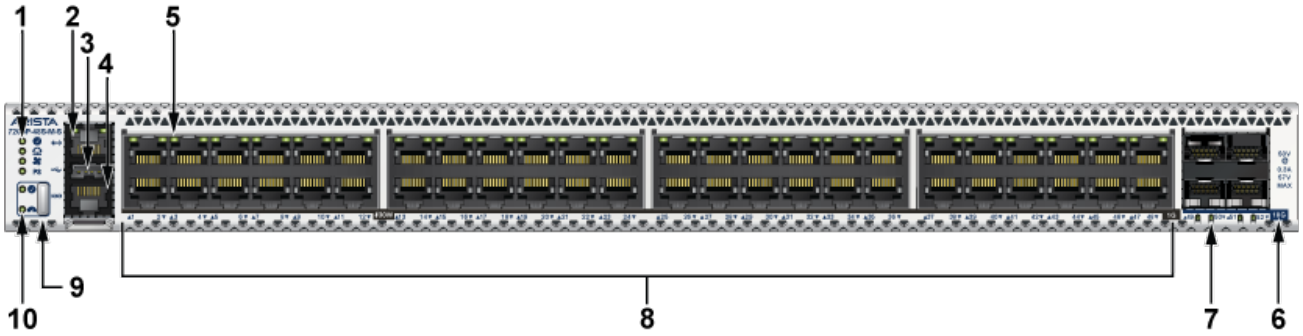


1	System Status LEDs	6	4x10G SFP+ Ports
2	RJ45 Ethernet Management Port	7	SFP+ Port LEDs
3	USB Port	8	48x1G PoE Ports
4	Console Port	9	Mode Button
5	Port LEDs	10	Mode Status LEDs

8.2 CCS-720DP-48S-M-S

The CCS-720DP-48S-M-S front panel includes the following key components:

Figure 8-2: CCS-720DP-48S-M-S Front Panel

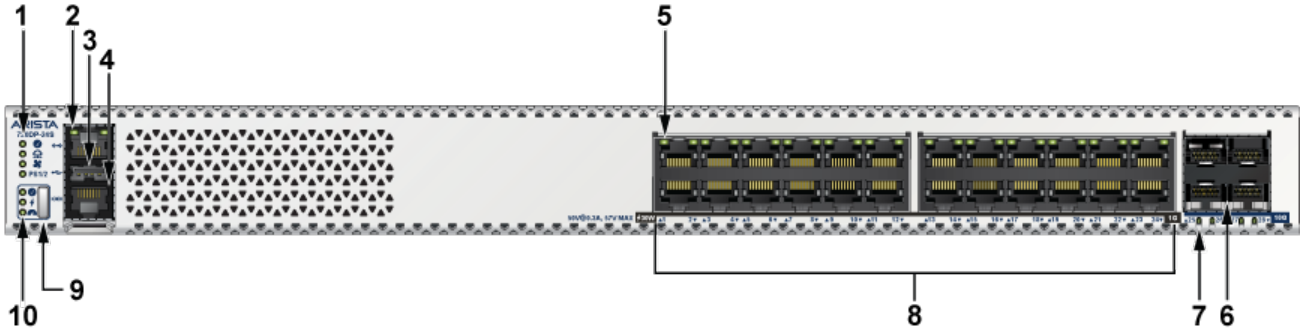


1	System Status LEDs	6	4x10G SFP+ Ports
2	RJ45 Ethernet Management Port	7	SFP+ Port LEDs
3	USB Port	8	48x1G PoE Ports
4	Console Port	9	Mode Button
5	Port LEDs	10	Mode Status LEDs

8.3 CCS-720DP-24S

The CCS-720DP-24S front panel includes the following key components:

Figure 8-3: CCS-720DP-24S-M-S Front Panel

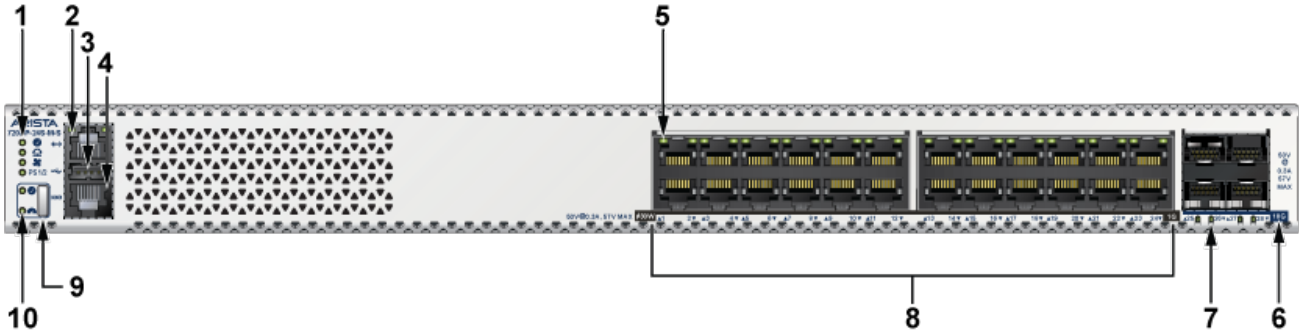


1	System Status LEDs	6	4x10G SFP+ Ports
2	RJ45 Ethernet Management Port	7	SFP+ Port LEDs
3	USB Port	8	24x1G PoE Ports
4	Console Port	9	Mode Button
5	Port LEDs	10	Mode Status LEDs

8.4 CCS-720DP-24S-M-S

The CCS-720DP-24S-M-S front panel includes the following key components:

Figure 8-4: CCS-720DP-24S-M-S Front Panel

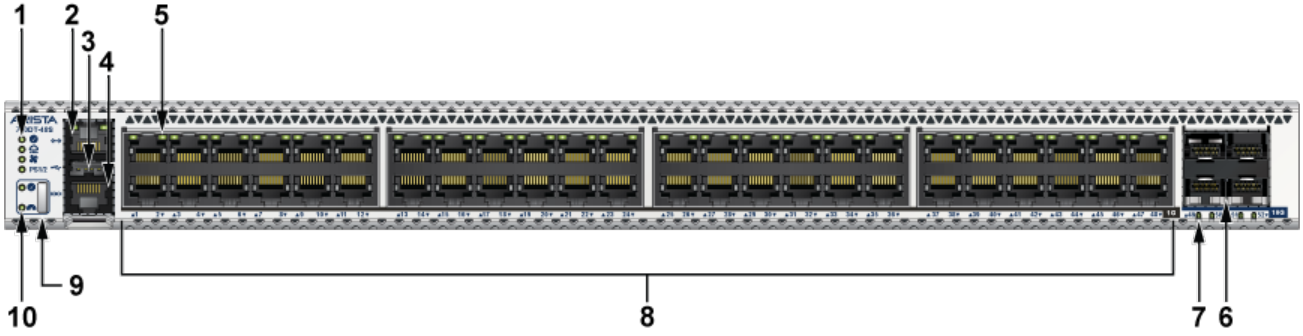


1	System Status LEDs	6	4x10G SFP+ Ports
2	RJ45 Ethernet Management Port	7	SFP+ Port LEDs
3	USB Port	8	24x1G PoE Ports
4	Console Port	9	Mode Button
5	Port LEDs	10	Mode Status LEDs

8.5 CCS-720DT-48S

The CCS-720DT-48S front panel includes the following key components:

Figure 8-5: CCS-720DT-48S Front Panel

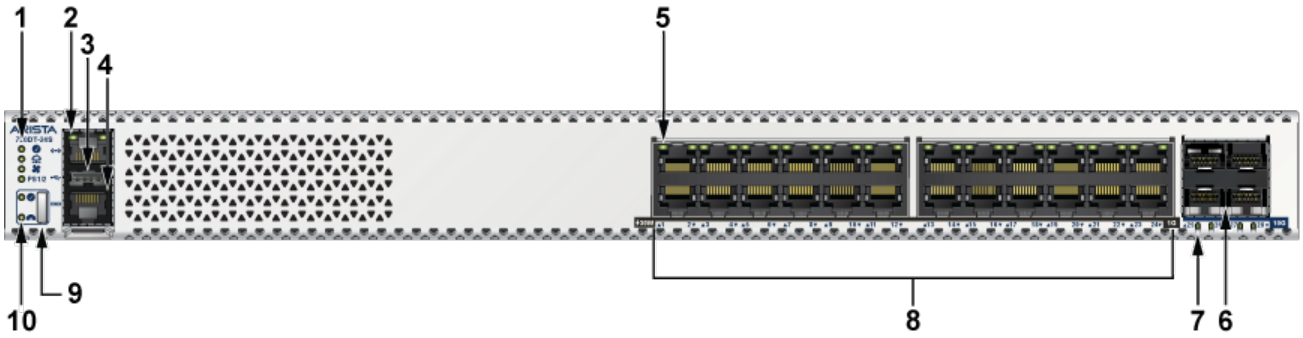


1	System Status LEDs	6	4x10G SFP+ Ports
2	RJ45 Ethernet Management Port	7	SFP+ Port LEDs
3	USB Port	8	48x1G PoE Ports
4	Console Port	9	Mode Button
5	Port LEDs	10	Mode Status LEDs

8.6 CCS-720DT-24S

The CCS-720DT-24S front panel includes the following key components:

Figure 8-6: CCS-720DT-24S Front Panel

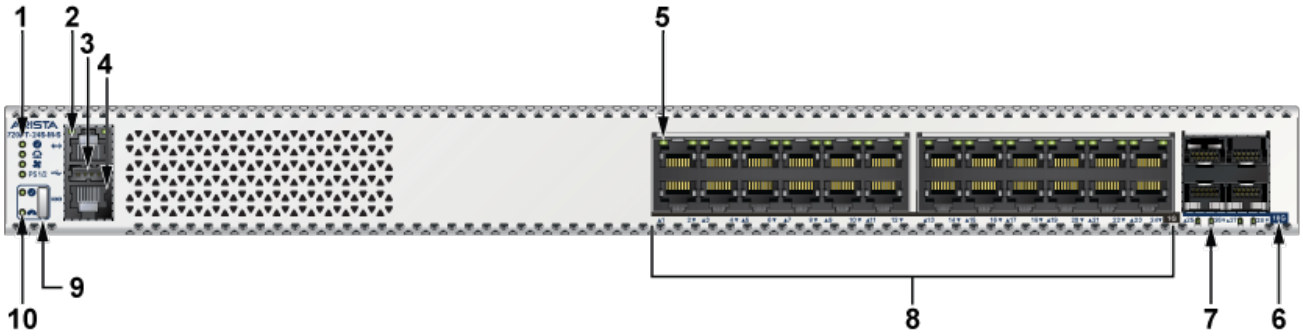


1	System Status LEDs	6	4x10G SFP+ Ports
2	RJ45 Ethernet Management Port	7	SFP+ Port LEDs
3	USB Port	8	24x1G Ports
4	Console Port	9	Mode Button
5	Port LEDs	10	Mode Status LEDs

8.7 CCS-720DT-24S-M-S

The CCS-720DT-24S-M-S front panel includes the following key components:

Figure 8-7: CCS-720DT-24S-M-S Front Panel

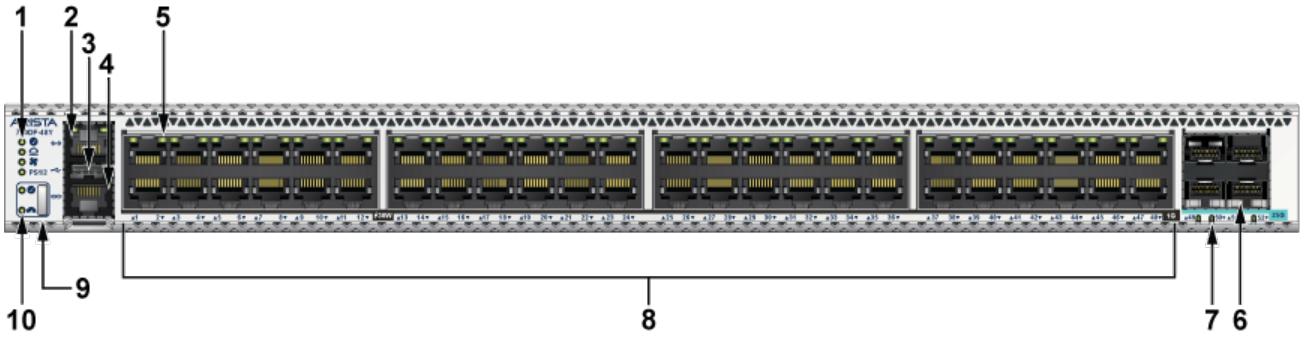


1	System Status LEDs	6	4x10G SFP+ Ports
2	RJ45 Ethernet Management Port	7	SFP+ Port LEDs
3	USB Port	8	24x1G Ports
4	Console Port	9	Mode Button
5	Port LEDs	10	Mode Status LEDs

8.8 CCS-720DF-48Y

The CCS-720DF-48Y front panel includes the following key components:

Figure 8-8: CCS-720DF-48Y Front Panel

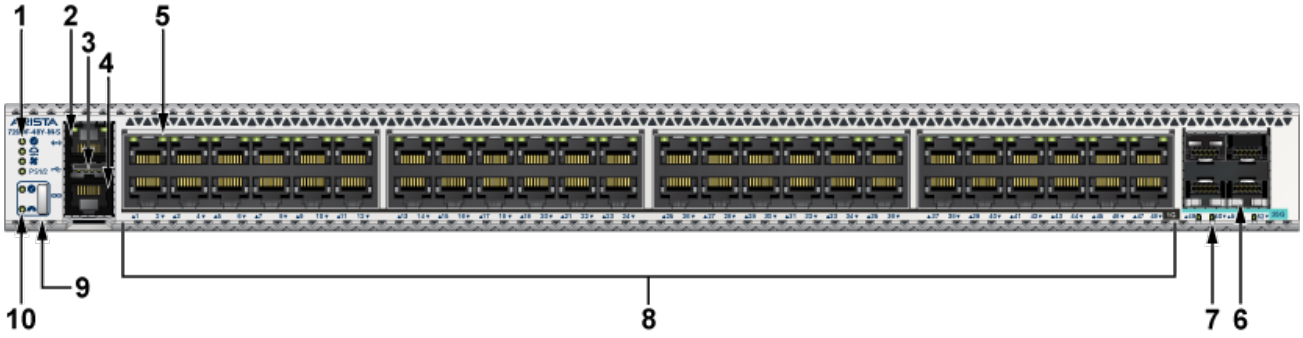


1	System Status LEDs	6	4x25G SFP28 Ports
2	RJ45 Ethernet Management Port	7	SFP28 Port LEDs
3	USB Port	8	48x1G SFP Ports
4	Console Port	9	Mode Button
5	Port LEDs	10	Mode Status LEDs

8.9 CCS-720DF-48Y-M-S

The CCS-720DF-48Y-M-S front panel includes the following key components:

Figure 8-9: CCS-720DF-48Y-M-S Front Panel

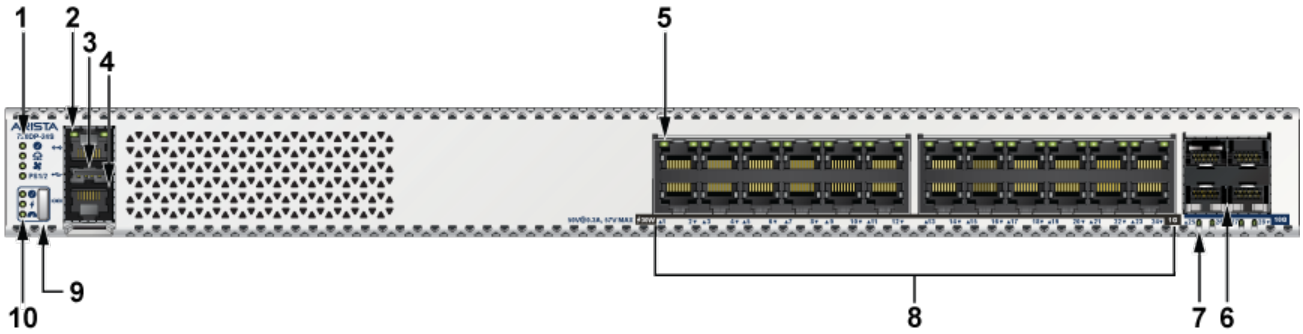


1	System Status LEDs	6	4x25G SFP28 Ports
2	RJ45 Ethernet Management Port	7	SFP28 Port LEDs
3	USB Port	8	48x1G SFP Ports
4	Console Port	9	Mode Button
5	Port LEDs	10	Mode Status LEDs

8.10 CCS-720DP-24ZS

The CCS-720DP-24ZS front panel includes the following key components:

Figure 8-10: CCS-720DP-24ZS Front Panel

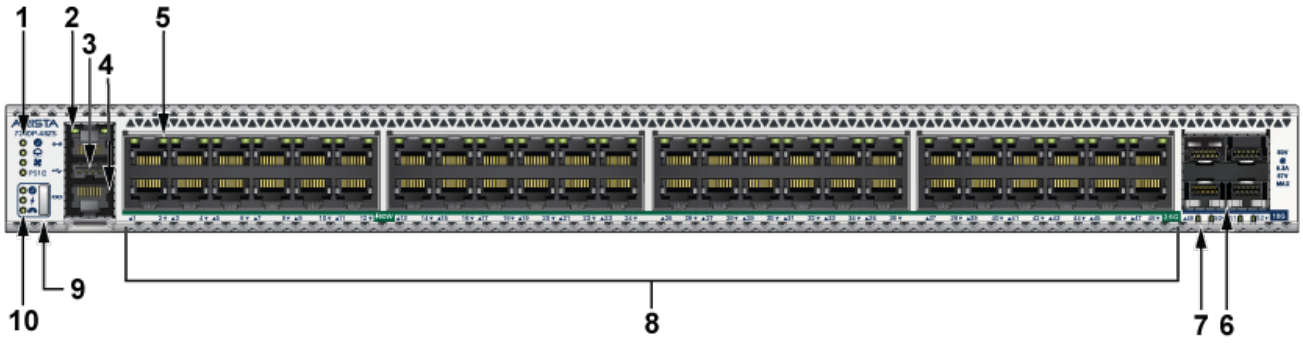


1	System Status LEDs	6	4x10G SFP+ Ports
2	RJ45 Ethernet Management Port	7	SFP+ Port LEDs
3	USB Port	8	24x2.5G PoE Ports
4	Console Port	9	Mode Button
5	Port LEDs	10	Mode Status LEDs

8.11 CCS-720DP-48ZS

The CCS-720DP-48ZS front panel includes the following key components:

Figure 8-11: CCS-720DP-48ZS Front Panel



1	System Status LEDs	6	4x10G SFP+ Ports
2	RJ45 Ethernet Management Port	7	SFP+ Port LEDs
3	USB Port	8	48x2.5G PoE Ports
4	Console Port	9	Mode Button
5	Port LEDs	10	Mode Status LEDs

Chapter 9

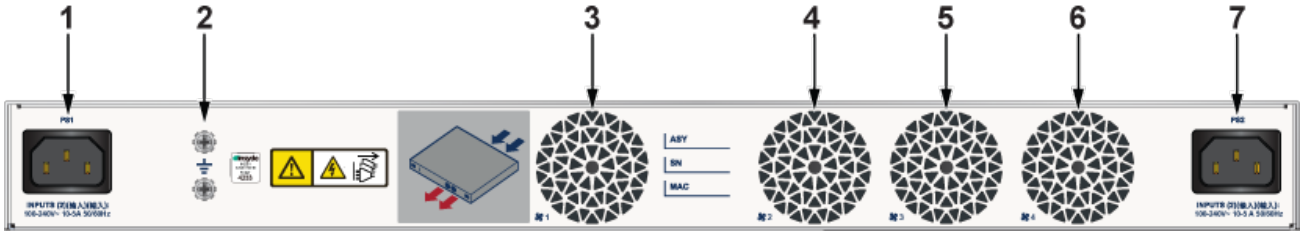
Rear Panel

The section discusses the rear panel of the Ethernet Switch.

9.1 CCS-720DP-48S-2F / CCS-720DP-48S-M-S-2F

The CCS-720DP-48S-2F / CCS-720DP-48S-M-S-2F rear panel includes the following key components:

Figure 9-1: CCS-720DP-48S-2F / CCS-720DP-48S-M-S-2F Rear Panel

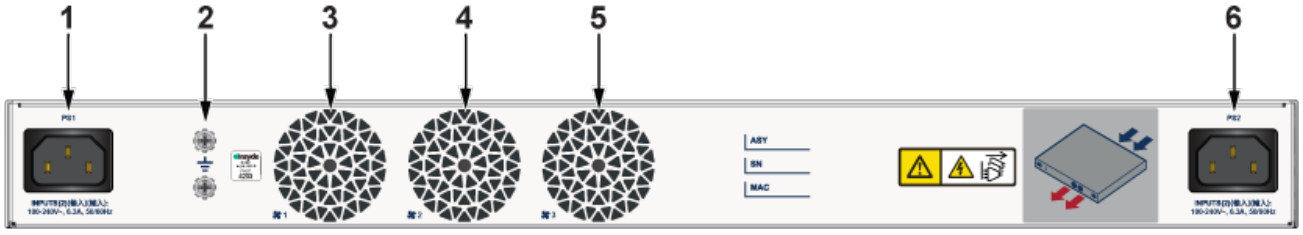


1 Power supply 1 (PS1)
2 Functional Grounding Point
3 Fan 1
4 Fan 2
5 Fan 3
6 Fan 4
7 Power Supply 2 (PS2)

9.2 CCS-720DP-24S-2F / CCS-720DP-24S-M-S-2F

The CCS-720DP-24S-2F / CCS-720DP-24S-M-S-2F rear panel includes the following key components:

Figure 9-2: CCS-720DP-24S-2F / CCS-720DP-24S-M-S-2F Rear Panel

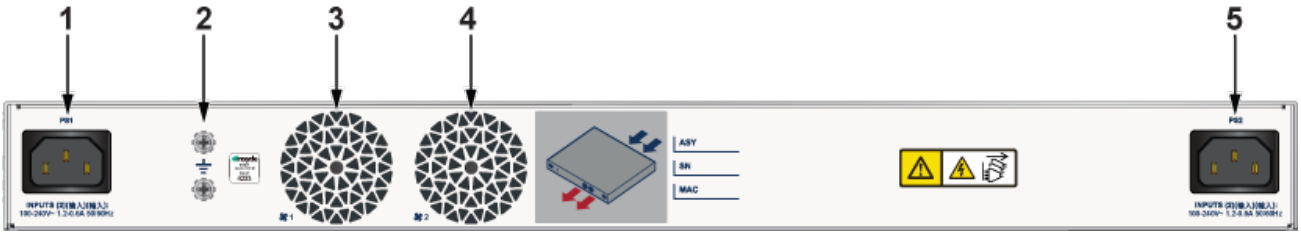


1 Power supply 1 (PS1)
2 Functional Grounding Point
3 Fan 1
4 Fan 2
5 Fan 3
6 Power Supply 2 (PS2)

9.3 CCS-720DT-48S-2F

The CCS-720DT-48S-2F rear panel includes the following key components:

Figure 9-3: CCS-720DT-48S-2F Rear Panel

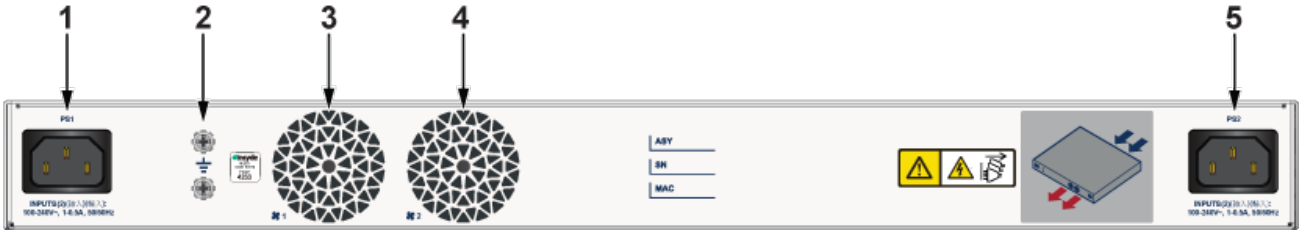


1 Power supply 1 (PS1)
2 Functional Grounding Point
3 Fan 1
4 Fan 2
5 Power Supply 2 (PS2)

9.4 CCS-720DT-24S-2F / CCS-720DT-24S-M-S-2F

The CCS-720DT-24S-2F / CCS-720DT-24S-M-S-2F rear panel includes the following key components:

Figure 9-4: CCS-720DT-24S-2F / CCS-720DT-24S-M-S-2F Rear Panel

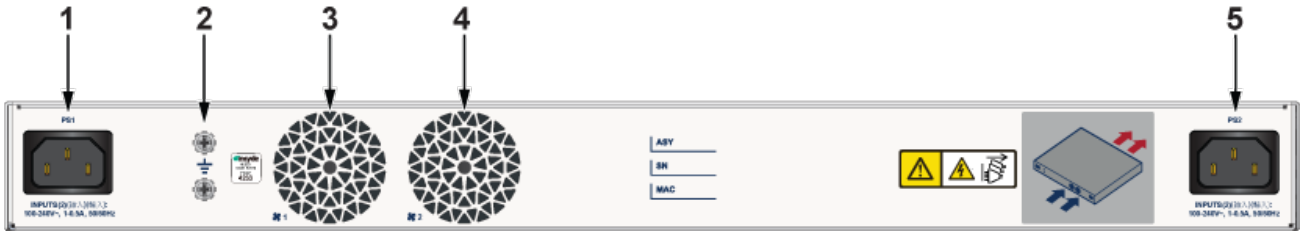


1 Power supply 1 (PS1)
2 Functional Grounding Point
3 Fan 1
4 Fan 2
5 Power Supply 2 (PS2)

9.5 CCS-720DT-24S-2R

The CCS-720DT-24S-2R rear panel includes the following key components:

Figure 9-5: CCS-720DT-24S-2R Rear Panel

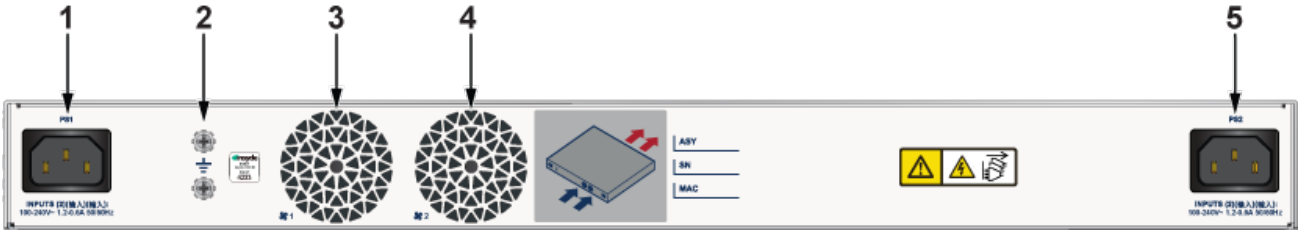


1 Power supply 1 (PS1)
2 Functional Grounding Point
3 Fan 1
4 Fan 2
5 Power Supply 2 (PS2)

9.6 CCS-720DT-48S-2R

The CCS-720DT-48S-2R rear panel includes the following key components:

Figure 9-6: CCS-720DT-48S-2R Rear Panel

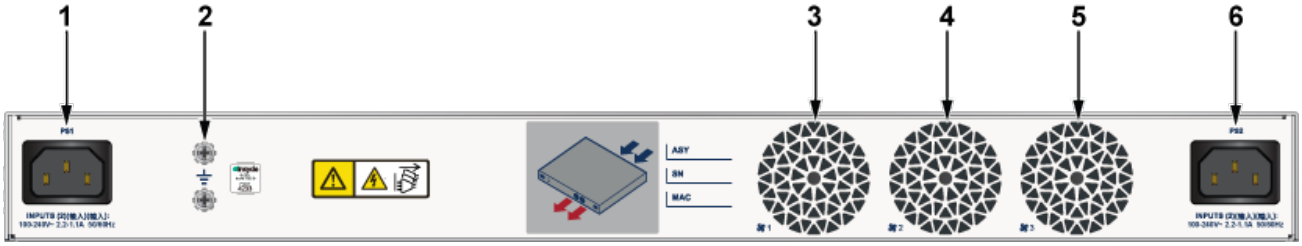


1 Power supply 1 (PS1)
2 Functional Grounding Point
3 Fan 1
4 Fan 2
5 Power Supply 2 (PS2)

9.7 CCS-720DF-48Y-2F / CCS-720DF-48Y-M-S-2F

The CCS-720DF-48Y-2F / CCS-720DF-48Y-M-S-2F rear panel includes the following key components:

Figure 9-7: CCS-720DF-48Y-2F / CCS-720DF-48Y-M-S-2F Rear Panel

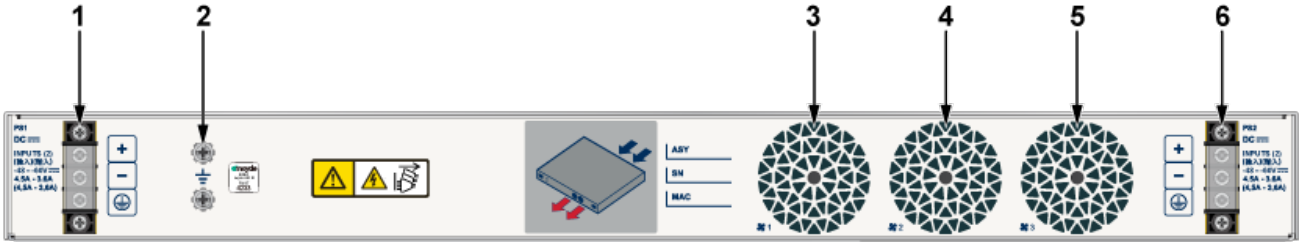


1	Power supply 1 (PS1)	4	Fan 2
2	Functional Grounding Point	5	Fan 3
3	Fan 1	6	Power Supply 2 (PS2)

9.8 CCS-720DF-48Y-DC-2F

The CCS-720DF-48Y-DC-2F rear panel includes the following key components:

Figure 9-8: CCS-720DF-48Y-DC-2F Rear Panel

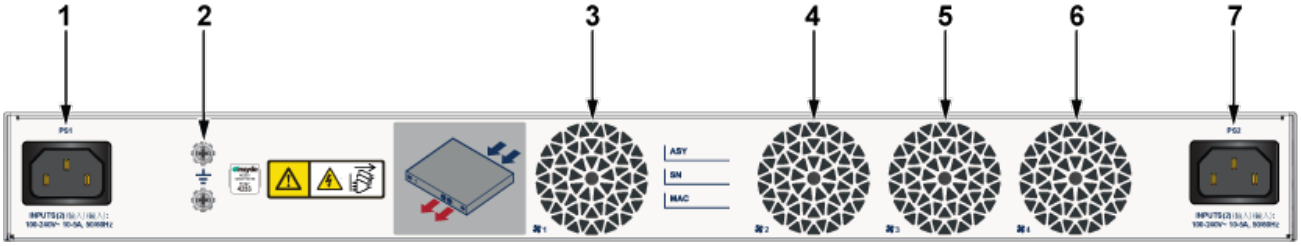


1	Power supply 1 (PS1)	4	Fan 2
2	Functional Grounding Point	5	Fan 3
3	Fan 1	6	Power Supply 2 (PS2)

9.9 CCS-720DP-24ZS-2F

The CCS-720DP-24ZS-2F rear panel includes the following key components:

Figure 9-9: CCS-720DP-24ZS-2F Rear Panel

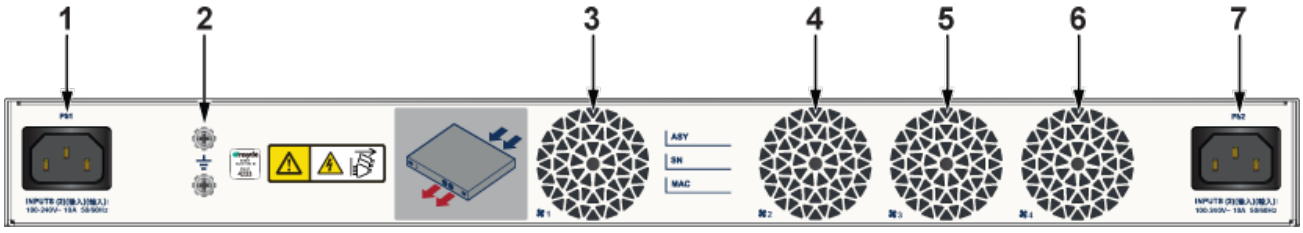


1 Power supply 1 (PS1)
2 Functional Grounding Point
3 Fan 1
4 Fan 2
5 Fan 3
6 Fan 4
7 Power Supply 2 (PS2)

9.10 CCS-720DP-48ZS-2F

The CCS-720DP-48ZS-2F rear panel includes the following key components:

Figure 9-10: CCS-720DP-48ZS-2F Rear Panel



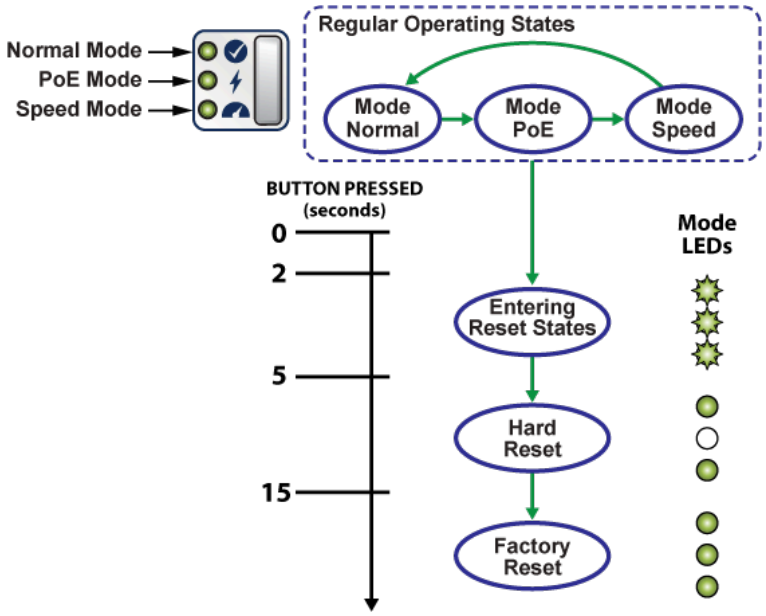
1 Power supply 1 (PS1)
2 Functional Grounding Point
3 Fan 1
4 Fan 2
5 Fan 3
6 Fan 4
7 Power Supply 2 (PS2)

Appendix A

Operating Mode Button

This section discusses the functionality of the mode button located on the front panel of the switch.

Figure A-1: Mode Button States



The mode button port LEDs will transition to different modes as listed below when the user presses the mode button for less than 2 seconds, and the same is indicated by the corresponding mode status LED.

- Normal Mode
- PoE Mode
- Speed Mode

In addition to controlling the port/mode LEDs, the button can trigger other actions, including a hard reset and a factory reset. To access these actions, it is required to long-press the button as shown in the Figure A-1: Mode Button States.

- **Entering Reset States:**

  If you select and hold the button for more than 2 seconds, all the 3 mode status LEDs will flash to indicate the transition from regular operating states to reset states. If the button is released before 5 seconds, no action will occur, and the system will return to its previous mode (normal, PoE, or link speed).

- **Hard Reset:**

  If you select and hold the button for about 5 to 15 seconds, it will trigger a hard reset of the system 2 seconds later.

- **Factory Reset:**

  If you select and hold the button for about 15 seconds or longer, it will trigger a hard reset of the system 2 seconds later. In addition, the system will also trigger factory reset on system configuration.

Appendix B

Regulatory Model Numbers

This section lists the Regulatory Model Numbers (RMNs) of the Ethernet switches described in this guide.

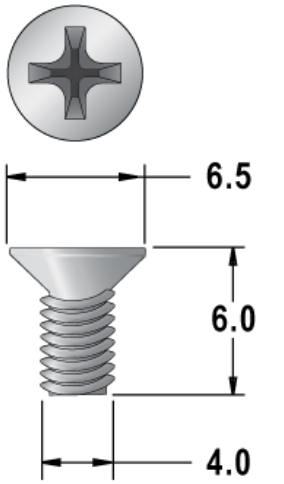
Table 11: Regulatory Model Numbers

Product Number	Regulatory Model Number (RMN)
CCS-720DP-48S-2F CCS-720DP-48S-M-S-2F	AN1755
CCS-720DP-24S-2F CCS-720DP-24S-M-S-2F	AN1756
CCS-720DT-48S-2F	AN1784
CCS-720DT-48S-2R	AN1784
CCS-720DT-24S-2F CCS-720DT-24S-M-S-2F	AN1785
CCS-720DT-24S-2R	AN1785
CCS-720DF-48Y-2F CCS-720DF-48Y-M-S-2F	AN1757
CCS-720DP-24ZS-2F	AN1754
CCS-720DP-48ZS-2F	AN1753
CCS-720DF-48Y-DC-2F	AN2211

Appendix C

Screw Size Details

This section describes the detailed screw size information required for mounting the switch. Refer to Rack Mounting the Switch.



M4X6mm SCREW

Appendix D

BSMI Class A Statement

This section provides the Taiwan BSMI Class A Statement information for switches this guide covers.

Figure D-1: Taiwan BSMI Class A Statement

警告: 為避免電磁干擾，本產品不應安裝或使用於住宅環境。

Appendix E

RoHS Information

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

ETP23500037M01 附件

設備名稱：以太網交換機，型號： AN1753(CCS-720DP-48ZS)						
單元	限用物質及其化學符號					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻（Cr(VI)）	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
機構件	O	O	O	O	O	O
印刷電路板	O	O	O	O	O	O
風扇	—	O	O	O	O	O
電源板模組	—	O	O	O	O	O
備考	1.”超出0.1wt%”及”超出0.01wt%”係指限用物質之百分比含量超出百分比含量基準值。 2.”O”係指該項限用物質之百分比含量未超出百分比含量基準值。 3.”—”係指該項限用物質為排除項目。					

AN1753(CCS-720DP-48ZS) 产品中有害物质的名称及含量

部件名称	有害物质					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬（Cr(VI)）	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
机构件	O	O	O	O	O	O
印刷电路板	O	O	O	O	O	O
风扇	X	O	O	O	O	O
电源板模块	X	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制。
O：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
X：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。
（企业可在此处，根据实际情况对上表中打”X”的技术原因进行进一步说明。）

ETP22C00024M02 附件

設備名稱：以太網交換機，型號： AN1754						
單元	限用物質及其化學符號					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻（Cr(VI)）	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
機構件	O	O	O	O	O	O
主機板組件	O	O	O	O	O	O
PSU 電源板模組	—	O	O	O	O	O
風扇模組	O	O	O	O	O	O
備考	1.”超出0.1wt%”及”超出0.01wt%”係指限用物質之百分比含量超出百分比含量基準值。 2.”O”係指該項限用物質之百分比含量未超出百分比含量基準值。 3.”—”係指該項限用物質為排除項目。					

AN1754 产品中有害物质的名称及含量

部件名称	有害物质					
单元	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬（Cr(VI)）	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
机构件	O	O	O	O	O	O
主机板组件	O	O	O	O	O	O
PSU 电源板模组	X	O	O	O	O	O
风扇模组	O	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制。
O：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
X：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。
（企业可在此处，根据实际情况对上表中打 ” X ” 的技术原因进行进一步说明。）

ETP22400038M01 附件

設備名稱：以太網交換機，型號： AN1755 / AN1784						
單元	限用物質及其化學符號					
	鉛（Pb）	汞（Hg）	鎘（Cd）	六價鉻（Cr(VI)）	多溴聯苯（PBB）	多溴二苯醚（PBDE）
機構件	O	O	O	O	O	O
主機板組件	O	O	O	O	O	O
PSU 電源板模組	—	O	O	O	O	O
POE	O	O	O	O	O	O
風扇模組	O	O	O	O	O	O
差異料	—	O	O	O	O	O
備考	1.”超出0.1wt%”及”超出0.01wt%”係指限用物質之百分比含量超出百分比含量基準值。 2.”O”係指該項限用物質之百分比含量未超出百分比含量基準值。 3.”—”係指該項限用物質為排除項目。					

AN1755 / AN1784 产品中有害物质的名称及含量

部件名称	有害物质					
单元	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬（Cr(VI)）	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
机构件	O	O	O	O	O	O
主机板组件	O	O	O	O	O	O
PSU 电源板模组	X	O	O	O	O	O
POE	O	O	O	O	O	O
风扇模组	O	O	O	O	O	O
差异料	X	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制。
O：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
X：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。
（企业可在此处，根据实际情况对上表中打 " X " 的技术原因进行进一步说明。）

ETP22400039M01 附件

設備名稱：以太網交換機，型號： AN1756 / AN1785						
單元	限用物質及其化學符號					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻（Cr(VI)）	多溴聯苯 (PBB)	多溴二苯醚 (PBDE)
機構件	O	O	O	O	O	O
主機板組板	—	O	O	O	O	O
PSU 電源板模組	O	O	O	O	O	O
風扇模組	O	O	O	O	O	O
差異料	—	O	O	O	O	O

備考
1."超出0.1wt%"及"超出0.01wt%"係指限用物質之百分比含量超出百分比含量基準值。
2."O"係指該項限用物質之百分比含量未超出百分比含量基準值。
3."—"係指該項限用物質為排除項目。

AN1756 / AN1785 产品中有害物质的名称及含量

部件名称	有害物质					
单元	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬（Cr(VI)）	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
机构件	O	O	O	O	O	O
主机板组件	X	O	O	O	O	O
PSU 电源板模组	O	O	O	O	O	O
风扇模组	O	O	O	O	O	O
差异料	X	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制。
O：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
X：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。
（企业可在此处，根据实际情况对上表中打 " X " 的技术原因进行进一步说明。）

ETP22A00034M03 附件

設備名稱：以太網交換機，型號： AN1757						
單元	限用物質及其化學符號					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻（Cr(VI)）	多溴聯苯（PBB）	多溴二苯醚（PBDE）
機構件	O	O	O	O	O	O
主機板組件	O	O	O	O	O	O
PSU 電源板模組	–	O	O	O	O	O
風扇模組	O	O	O	O	O	O

備考
1."超出0.1wt%"及"超出0.01wt%"係指限用物質之百分比含量超出百分比含量基準值。
2."O"係指該項限用物質之百分比含量未超出百分比含量基準值。
3."–"係指該項限用物質為排除項目。

AN1757 产品中有害物质的名称及含量

部件名称	有害物质					
单元	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬（Cr(VI)）	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
机构件	O	O	O	O	O	O
主机板组件	O	O	O	O	O	O
PSU 电源板模组	X	O	O	O	O	O
风扇模组	O	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制。
O：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
X：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。
（企业可在此处，根据实际情况对上表中打 " X " 的技术原因进行进一步说明。）

ETP21600093M01 附件

設備名稱：以太網交換機，型號： AN1758 / AN1786						
單元	限用物質及其化學符號					
	鉛（Pb）	汞（Hg）	鎘（Cd）	六價鉻（Cr(VI)）	多溴聯苯（PBB）	多溴二苯醚（PBDE）
機構件	O	O	O	O	O	O
印刷電路板	O	O	O	O	O	O
電容	O	O	O	O	O	O
螺絲組件	O	O	O	O	O	O
差異料	O	O	O	O	O	O
配件組	O	O	O	O	O	O

備考
1."超出0.1wt%"及"超出0.01wt%"係指限用物質之百分比含量超出百分比含量基準值。
2."O"係指該項限用物質之百分比含量未超出百分比含量基準值。
3."—"係指該項限用物質為排除項目。

AN1758 / AN1786 产品中有害物质的名称及含量

部件名称	有害物质					
单元	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬（Cr(VI)）	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
机构件	O	O	O	O	O	O
印刷电路板	O	O	O	O	O	O
电容	O	O	O	O	O	O
螺丝组件	O	O	O	O	O	O
差异料	O	O	O	O	O	O
配件组	O	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制。
O：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
X：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。
（企业可在此处，根据实际情况对上表中打 " X " 的技术原因进行进一步说明。）

ETP23A00007M02 附件

設備名稱：以太網交換機，型號： AN2211 (CCS-720DF-48Y-DC)						
單元	限用物質及其化學符號					
	鉛 (Pb)	汞 (Hg)	鎘 (Cd)	六價鉻（Cr(VI)）	多溴聯苯（PBB）	多溴二苯醚（PBDE）
機構件	O	O	O	O	O	O
主機板組件	O	O	O	O	O	O
印刷電路板	—	O	O	O	O	O
風扇模組	O	O	O	O	O	O

備考
1."超出0.1wt%"及"超出0.01wt%"係指限用物質之百分比含量超出百分比含量基準值。
2."O"係指該項限用物質之百分比含量未超出百分比含量基準值。
3."—"係指該項限用物質為排除項目。

AN2211 产品中有害物质的名称及含量

部件名称	有害物质					
单元	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬（Cr(VI)）	多溴联苯（PBB）	多溴二苯醚（PBDE）
机构件	O	O	O	O	O	O
主机板组件	O	O	O	O	O	O
印刷电路板	X	O	O	O	O	O
风扇模组	O	O	O	O	O	O

本表格依据 SJ/T 11364 的规定编制。
O：表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。
X：表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。
（企业可在此处，根据实际情况对上表中打 " X " 的技术原因进行进一步说明。）