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Chapter 1

Overview

1.1 Scope
This guide is intended for properly trained service personnel and technicians who need to install the following Arista Networks Data Center Switches:

- CCS-755
- CCS-758

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

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 that you do not discard any accessories that may be 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 750 Series Modular Switches purchase order. Appendix B provides a list of components included with the switch.

1.3 Installation Process
The following tasks are required to install and use the switch:

Step 1 Select and prepare the installation site (Section 2.1).
Step 2 Assemble the installation tools listed (Section 2.2).
Step 3 Attach the mounting brackets and install the switch in an equipment rack (Chapter 3).
Step 4 Connect the switch to the power source and network devices (Chapter 4).
Step 5 Configure the switch (Chapter 5).
Important! Class 1 Laser Product: This product has provisions to install Class 1 laser transceivers that provides optical coupling to the communication network. Once 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 insuring 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 accompanied the transceiver prior to 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 émetteurs-récepteurs 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 handled in accordance with all national laws and regulations.

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

1.4 Safety Information
Refer to the Arista Networks document Safety Information and Translated Safety Warnings available at:


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. This is the easiest way to create a new service request.
  
  Include a detailed description of the problem and the output of “show tech-support”.

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

  A support case may be created through the support portal on our website. You may also download the most current software and documentation, as well as view FAQs, Knowledge Base articles, Security Advisories, and Field Notices.

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

Important! No user serviceable parts inside. Refer all servicing to qualified service personnel.

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

Table 1-1 lists the specifications of Arista Data Center modular switches covered by this guide.

Table 1-1 Modular switch specifications

<table>
<thead>
<tr>
<th></th>
<th>CCS-755</th>
<th>CCS-758</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Height</strong></td>
<td>7 RU: 305 mm (12.0 inches)</td>
<td>10 RU: 439.4 mm (17.3 inches)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>441 mm (17.36 inches) maximum</td>
<td>441 mm (17.36 inches) maximum</td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>940 mm (16.5 inches)</td>
<td>940 mm (16.5 inches)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>65.4 kg (143.9 lbs) fully loaded</td>
<td>91.6 kg (201.5 lbs) fully loaded</td>
</tr>
<tr>
<td><strong>AC Branch Circuit Protection</strong></td>
<td>20 A</td>
<td>20 A</td>
</tr>
<tr>
<td><strong>Input Power Circuits</strong></td>
<td>6 circuits</td>
<td>10 circuits</td>
</tr>
<tr>
<td><strong>Ambient Temperature</strong></td>
<td>0° to 40°C (32° to 104°F)</td>
<td>0° to 40°C (32° to 104°F)</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-40° to 70°C (-40° to 158°F)</td>
<td>-40° to 70°C (-40° to 158°F)</td>
</tr>
<tr>
<td><strong>Relative Humidity</strong></td>
<td>5 to 90%</td>
<td>5 to 90%</td>
</tr>
<tr>
<td><strong>Altitude</strong></td>
<td>0 to 3,000 meters (0 to 10,000 feet)</td>
<td>0 to 3,000 meters (0 to 10,000 feet)</td>
</tr>
<tr>
<td><strong>Cooling</strong></td>
<td>See Power draw configurations in Table 1-2</td>
<td>See Power draw configurations in Table 1-2</td>
</tr>
</tbody>
</table>
Table 1-2 lists power specifications of modular switch components.

### Table 1-2  750 Series power specifications

<table>
<thead>
<tr>
<th>Module Type</th>
<th>Part Number</th>
<th>Power Draw (Typical / Maximum - non PoE)</th>
<th>Available Power (for PoE)¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supervisor Modules</td>
<td>CCS-750-Sup100</td>
<td>79 W / 94 W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CCS-750-Sup25</td>
<td>70 W / 80 W</td>
<td></td>
</tr>
<tr>
<td>Line Card Modules</td>
<td>CCS-750X-48TP-LC</td>
<td>40 W / 42 W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CCS-750X-48ZP-LC</td>
<td>81 W / 85 W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CCS-750X-48ZXP-LC</td>
<td>232 W / 232 W</td>
<td></td>
</tr>
<tr>
<td>Switch Card Modules</td>
<td>CCS-755-X3-SC</td>
<td>82 W / 159 W</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CCS-758-X3-SC</td>
<td>101 W / 174 W</td>
<td></td>
</tr>
<tr>
<td>Power Supply (AC)</td>
<td>PWR-3351-AC-RED</td>
<td>5 W⁴</td>
<td></td>
</tr>
<tr>
<td>755 Series System</td>
<td>Full chassis loaded with</td>
<td>1026 W / 1251 W</td>
<td>18871 W</td>
</tr>
<tr>
<td></td>
<td>2 CCS-750-Sup100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 CCS-755-X3-SC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5 CCS-750X-48ZP</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>6 PWR-3351-AC-RED</td>
<td></td>
<td></td>
</tr>
<tr>
<td>758 Series System</td>
<td>Full chassis loaded with</td>
<td>1338 W / 1566 W</td>
<td>31789 W</td>
</tr>
<tr>
<td></td>
<td>2 CCS-750-Sup100</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 CCS-755-X3-SC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8 CCS-750X-48ZP</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>10 PWR-3351-AC-RED</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Assumes all PSUs are operating between 220 - 240 V.
² When no AC input is applied.
³ Includes typical power supply conversion inefficiency. Contact your local Sales Engineer for 750 power calculator details.
⁴ Power numbers given as Typical/Maximum or Typical/Hot/Maximum where Hot is defined as 40°C Sea Level.
* Not N+N redundant power at worst case Temp/Elevation.
2.1 Site Selection

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

- **Floor Space**: Install the switch in an area that provides adequate clearance for removing front and rear components.
  
  Figure 2-1 displays the dimensions and footprint of the switch clearance requirements for the switches.

**Figure 2-1: Clearance requirements and footprint for switches**

Table 2-1 shows the dimensions for each of the modular switches.

<table>
<thead>
<tr>
<th>Switch</th>
<th>Clearance Requirements Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS-755</td>
<td>24.2 cm (9.5 in.) 94.0 cm (16.5 in.) 35.1 cm (13.8 in.)</td>
</tr>
<tr>
<td>CCS-758</td>
<td>24.2 cm (9.5 in.) 94.0 cm (16.5 in.) 35.1 cm (13.8 in.)</td>
</tr>
</tbody>
</table>

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

**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 direct air from the front panel to the rear panel. Orient the front panel toward the cool aisle.
- **Rack Space Requirements:** Table 2-2 shows the rack space requirements for each of the modular switches.

### Table 2-2 Rack space requirements

<table>
<thead>
<tr>
<th>Switch</th>
<th>2-post</th>
<th>4-post</th>
<th>Switch Height (RU)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS-755</td>
<td>KIT-CCS-750-2P</td>
<td>KIT-CCS-750-4P</td>
<td>7</td>
</tr>
<tr>
<td>CCS-758</td>
<td>KIT-CCS-750-2P</td>
<td>KIT-CCS-750-4P</td>
<td>10</td>
</tr>
</tbody>
</table>

**Note**
The accessory kit provides the required mounting hardware for each switch.

- **Power Requirements:** Arista switches require a minimum number of operating power supplies in all chassis, and for each power domain of switches with multiple power domains. Refer to Chapter 4 for more details regarding your switch.
- **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.
  - AC power cords can reach from the AC power outlet to the input connectors.

### 2.2 Tools and Parts Required for Installation

The following tools are required to install a modular switch:
- Mechanical device capable of lifting chassis being installed (Table 1-1 on page 3).
- Torque reading nut driver (for DC power supplies)
- #2 Phillips head screwdriver

**Rack mount:** Table 2-3 shows the rack components required for each of the modular switches.

### Table 2-3 Rack component requirements

<table>
<thead>
<tr>
<th>Switch</th>
<th>Rack screws(^{(1)})</th>
<th>Rack nuts(^{(2)})</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS-755</td>
<td>14</td>
<td>14</td>
<td>2-post installation 4-post installation</td>
</tr>
<tr>
<td>CCS-758</td>
<td>18</td>
<td>18</td>
<td>2-post installation 4-post installation</td>
</tr>
</tbody>
</table>

1. The accessory kit includes screws that fit many common equipment racks.
2. Rack nuts are only for racks with unthreaded, rack-post holes.

### 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.
• Use a conductive work surfaces (such as an anti-static mat) to dissipate static charge.
• Wear an ESD 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.
• Use tools that do not create ESD.
Rack Mounting the Switch

The switches can be installed in two-post (Section 3.1) or four-post (Section 3.2) racks. The appropriate accessory kit provides components for installing the switch in the rack. The chassis can be mounted in the following three positions:

- Front
- Center
- Back (rear)

Section 3.1.1 and Section 3.1.2.1 show examples for attaching mounting ears to the CCS-755 and CCS-758 chassis to support each of the three mounting locations.

Note

Four-post rack mount kit is optional.

Illustrations in this chapter depict the mounting of a chassis in a single orientation. After completing the instructions for your rack type, proceed to Chapter 4.

3.1 Two-post Rack Mount

The switch can be mounted in either forward orientation (line cards and supervisors facing forward) or backward orientation (fans and PSUs facing forward). For each of these orientations, the switch supports a front, center or rear mount into a two-post rack.

The accessory kit includes the following two-post mounting parts:

- 2-post rack cradle
- mounting brackets
- 18 screws

Note

The following illustrations highlight a front-mount.

3.1.1 Rack Mounting the CCS-755

To mount the switch to the rack, perform the following tasks:

- Attach the mounting brackets to the switch for the desired orientation and position supported (Section 3.1.1.1).
- Insert and secure the 2-post cradle to the rack (Section 3.1.1.2).
- Insert and secure the switch into the rack (Section 3.1.1.3).
3.1.1.1 Attaching Mounting Brackets to the Chassis

**Step 1**  Attach the mounting brackets to both sides of the chassis using the screws provided in the kit for the desired orientation and position. Figure 3-1 shows the 755 chassis with the mounting brackets for Forward-Front, Forward-Center, and Backward-Front mounting.

*Figure 3-1: Attaching the mounting brackets for 755*

3.1.1.2 Attaching Cradle to the Racks

**Step 1**  Attach the 2-post cradle to the rack using the screws provided (*Figure 3-2*). Use rack nuts if needed.

*Figure 3-2: Attaching the cradle to the rack*

3.1.1.3 Inserting and Securing Chassis into Rack

**Step 1**  Move the chassis to the rack using a mechanical lift.

**Note**  If modules are inserted in the chassis, use the lift carefully to avoid damaging any components.

**Step 2**  Lift and slide the chassis into the rack cradle in the desired orientation (*Figure 3-3*).

**Note**  *Figure 3-3* shows a threaded rack example.
Chapter 3: Rack Mounting the Switch

Two-post Rack Mount

Figure 3-3: Inserting the switch into the two-post rack (755 Forward-Front)

Figure 3-4: Securing the chassis (755 Forward-Front)

Step 3  Secure the chassis to the rack (Figure 3-4) using the screws.

After completing the two-post Installation, proceed to Chapter 4.

3.1.2 Rack Mounting the CCS-758

To mount the switch to the rack, perform the following tasks:

- Attach the mounting brackets to the switch for the desired orientation and position supported (Section 3.1.2.1).
- Insert and secure the 2-post cradle to the rack (Section 3.1.2.2).
- Insert and secure the switch into the rack (Section 3.1.2.3).
3.1.2.1 Attaching Mounting Brackets to the Chassis

**Step 1** Attach the mounting brackets to both sides of the chassis using the screws provided in the kit for the desired orientation and position. Figure 3-5 shows the 758 chassis with the mounting brackets for Forward-Front, Forward-Center, and Backward-Front mounting.

*Figure 3-5: Attaching the mounting brackets for 758*

3.1.2.2 Attaching Cradle to the Racks

**Step 1** Attach the 2-post cradle to the rack using the screws provided (*Figure 3-6*). Use rack nuts if needed.

*Figure 3-6: Attaching the cradle to the rack*

3.1.2.3 Inserting and securing Chassis into Rack

**Step 1** Move the chassis to the rack using a mechanical lift.

*Note* If modules are inserted in the chassis, use the lift carefully to avoid damaging any components.

**Step 2** Lift and slide the chassis into the rack cradle in the desired orientation (*Figure 3-3*).

*Note* *Figure 3-3* shows an unthreaded rack example with rack nuts.
Figure 3-7: Inserting the switch into the two-post rack (758 Forward-Front)

Step 3  Secure the chassis to the rack (Figure 3-4).

Figure 3-8: Securing the chassis (758 Forward-Front)

After completing the two-post Installation, proceed to Chapter 4.
3.2 Four-post Rack Mount (Optional)

The switch can be mounted in either forward orientation (line cards and supervisors facing forward) or backward orientation (fans and PSUs facing forward) in a four-post rack.

The accessory kit includes the following four-post mounting parts:
- 4-post rack cradle
- mounting brackets
- 18 screws

3.2.1 Rack Mounting the CCS-755

To mount the switch to the rack, perform the following tasks:
- Attach the mounting brackets to the switch for the desired orientation and position supported (Section 3.2.1.1).
- Insert and secure the 2-post cradle to the rack (Section 3.2.1.2).
- Insert and secure the switch into the rack (Section 3.2.1.3).

3.2.1.1 Attaching Mounting Brackets to the Chassis

**Step 1** Attach the mounting brackets to both sides of the chassis using the screws provided in the kit for the desired orientation and position. Figure 3-9 shows the 755 chassis with the mounting brackets for Forward-Front and Backward-Front mounting.

*Figure 3-9: Attaching the mounting brackets for 755*

**Note** Center and rear mount are not supported for four-post rack mounting.

3.2.1.2 Inserting and Securing the Cradle to the Racks

To insert and secure the cradle assembly to the rack use the following steps.

**Step 1** Insert two screws loosely in the two front rack posts and two in the back two rack posts at the same level (Figure 3-10).
Figure 3-10: Attaching mounting screws to the rack posts for 755

**Step 2**  Buckle the straps on the cradle together, prior to installation, so the left and right sides are angled slightly inwards (Figure 3-11).

Figure 3-11: Buckling the straps

**Step 3**  Pull out the rear sliding rails slightly beyond the back rack posts.
Step 4  Insert the cradle so that the notches in the cradle engage behind the loosely mounted front screws (Figure 3-12).

Step 5  Slide the rear sliding rails back in so that they are flush with the back rack posts, the notches in the cradle engage behind the loosely mounted screws, and the bottom of the cradle is horizontal and level (Figure 3-12).

Figure 3-12: Inserting the cradle

Step 6  Release the clasp on the connector to rotate the left and right sides so they are vertical (Figure 3-13).

Figure 3-13: Aligning the cradle in the rack
Step 7  Secure the cradle to the rack posts using the remaining screws, and tighten the loosely mounted screws (Figure 3-14).

Figure 3-14: Securing the cradle in the rack

3.2.1.3 Inserting and Securing the Switch into the Rack

Step 1  Move the chassis to the rack using a mechanical lift.

Note  If modules are inserted in the chassis, use the lift carefully to avoid damaging any components.

Step 2  Lift the chassis into the rack and slide it into the cradle (Figure 3-15).

Figure 3-15: Inserting the chassis (755 Forward-Front)
Step 3  Secure the chassis by tightening additional screws on the front flanges into the rack posts (Figure 3-16).

Figure 3-16: Securing the chassis (755 Forward-Front)

After completing the Four-Post Installation, proceed to Chapter 4.

3.2.2 Rack Mounting the CCS-758

To mount the switch to the rack, perform the following tasks:

- Attach the mounting bracket(s) to the switch for the desired orientation and position supported (Section 3.2.2.1).
- Insert and secure the 2-post cradle to the rack (Section 3.2.2.2).
- Insert and secure the switch into the rack (Section 3.2.2.3).

3.2.2.1 Attaching Mounting Brackets to the Chassis

Step 1  Attach the mounting brackets to both sides of the chassis using the screws provided in the kit for the desired orientation and position. Figure 3-17 shows the 758 chassis with the mounting brackets for Forward-Front and Backward-Front mounting.

Figure 3-17: Attaching the mounting brackets for 758
Note  Center mount is not supported for four-post rack mounting.

3.2.2.2 Inserting and Securing the Cradle to the Racks
To insert and secure the cradle assembly to the rack use the following steps.

**Step 1** Insert two screws loosely in the two front rack posts and two in the back two rack posts at the same level (Figure 3-18).

Figure 3-18: Attaching mounting screws to the rack posts for 758

**Step 2** Buckle the straps on the cradle together, prior to installation, so the left and right sides are angled slightly inwards (Figure 3-19).

Figure 3-19: Buckling the straps
Step 3  Pull out the rear sliding rails slightly beyond the back rack posts.

Step 4  Insert the cradle so that the notches in the cradle engage behind the loosely mounted front screws (Figure 3-20).

Step 5  Slide the rear sliding rails back in so that they are flush with the back rack posts, the notches in the cradle engage behind the loosely mounted screws, and the bottom of the cradle is horizontal and level (Figure 3-20).

Figure 3-20: Inserting the cradle

Step 6  Release the clasp on the connector to rotate the left and right sides so they are vertical (Figure 3-21).

Figure 3-21: Aligning the cradle in the rack
Step 7 Secure the cradle to the rack posts using the remaining screws, and tighten the loosely mounted screws (Figure 3-22).

Figure 3-22: Securing the cradle in the rack

3.2.2.3 Inserting and Securing the Switch into the Rack

Note If modules are inserted in the chassis, use the lift carefully to avoid damaging any components.

Step 1 Lift the chassis into the rack and slide it into the cradle (Figure 3-23).

Figure 3-23: Inserting the chassis (758 Forward-Front)
Step 2  Secure the chassis by tightening additional screws on the front flanges into the rack posts (Figure 3-24).

Figure 3-24: Securing the chassis (758 Forward-Front)

After completing the Four-Post Installation, proceed to Chapter 4.
Chapter 4

Cabling the Modular Switch

4.1 Cabling the Power Supplies


Important! Power down the switch: Remove all power cords from the power inlets.

Mettez le commutateur: Retirez tous les cordons d'alimentation des prises d'alimentation.

Important! Installation of this equipment must comply with local and national electrical codes. If necessary, consult with the appropriate regulatory agencies and inspection authorities to ensure compliance.

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.

Note
Many configurations will require additional power supplies.

Nombreuses configurations exigera des alimentations supplémentaires.

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.

Table 4-2 shows the minimum number of operating power supplies that must be connected to active circuits for each switch to operate.

Each power supply includes a fan that maintains proper power supply temperature. The appendices display the location of components for all switches described in this guide.

4.2 Cabling Chassis Ground

Figure 4-1 and Figure 4-2 display the location of the chassis grounding locations on the front panel of the switches. Chassis ground locations are also located on the rear panel of the switch chassis (Appendix D). After mounting the switch into the rack, connect at least one of the chassis grounds to...
the data center ground using two-hole ground lugs with 16 mm (5/8 in.) spacing, and two M4 x 0.7 screws. After the switch is grounded, ESD wrist straps can be grounded by connecting them to one of the attach points.

**Important!** Grounding wires and grounding lugs are not supplied. Wire size should meet local and national installation requirements. Commercially available 2 or 4 AWG wire is recommended for installations in the U.S.

À la terre et de mise à la terre fils cosses ne sont pas fournis. Calibre des fils doit satisfaire des exigences de l'installation locale et nationale. Disponible dans le commerce 2 ou 4 AWG fil est recommandé pour les installations aux États-Unis.

**Important!** This equipment must be grounded. Never defeat the ground conductor. This unit requires over-current protection.

Cet équipement doit être mis à la terre. Ne jamais modifier le conducteur de terre. Cet appareil nécessite de protection contre les surintensités.

**Important!** Secondary Grounding wires, lugs, and screws (M4 x 0.7) are not supplied.

Secondaire à la terre, câbles, cosses et vis (M4 x 0.7) ne sont pas fournis.

**Figure 4-1: Chassis ground locations (CCS-755)**

1. **Grounding locations**
2. **ESD attach point**
3. **Line cards**
4. **Supervisor modules**
To power down the switch, remove all power cords from the power inlets.

### 4.3 Cabling the AC Power Supplies

The switches use PWR-3351-AC-RED (Figure 4-3) AC power supplies. Power cables are included with the accessory kit (Table B-1). To power the switch, connect the cables to the C20 connectors on the PSU inputs, and insert the other side of the cables into the main power providing circuit(s).

**Note**
The power supply, handle color, orientation, etc. may be different in your device from the one shown in Figure 4-3.
Figure 4-3: AC power supply (PWR-3351-AC-RED)

Appendix D displays the rear panel location of the power supplies.

**Note**

After disconnection from main power, LED(s) on the PSU remain on for a short period of time. The actual duration varies for each PSU model, but the LED(s) will eventually turn off. The PSU fan will ramp up and run at maximum speed for a few seconds before shutting down.

### 4.4 Power Supply Specifications

Table 4-1 shows the power supply specifications for each of the PSUs supported.

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>Maximum output power rating (DC)</th>
<th>Input voltage and frequency</th>
<th>Maximum input current</th>
<th>Input branch circuit protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>PWR-3351-AC-RED</td>
<td>1400 W 3000 W 3300 W</td>
<td>100 to 127 VAC 200 to 220 VAC 220 to 240 VAC 50/60 Hz</td>
<td>16 A</td>
<td>20 A</td>
</tr>
</tbody>
</table>

**Important!** Each power supply requires input branch circuit protection in compliance with AHJ requirements.

Chaque alimentation nécessite une protection du circuit de la branche d’entrée conformément aux exigences de l’AHJ.

### 4.5 Power Supply Configurations

Table 4-2 shows the power supply configurations for the modular switches.

**Note**

PSU input voltage for all PSUs in the system must be the same.

<table>
<thead>
<tr>
<th>Modular switch</th>
<th>Recommended number of PSUs (for redundancy)</th>
<th>Minimum number of PSUs required</th>
<th>Maximum number of PSUs supported</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS-755</td>
<td>3</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>CCS-758</td>
<td>5</td>
<td>1</td>
<td>10</td>
</tr>
</tbody>
</table>
4.5.1 Recommendations for power supply usage

- Use separate circuits (A & B) with required protection for each power supply.
- Use the same PSU model when replacing a failed PSU. Any suitable alternative must be approved before using if the original model is no longer supported or available.
- Unless your switch allows for mixing power supplies, do not mix power supply types.
- Populate the PSU slots sequentially.
- Valid redundancy configurations for each domain are described in Power Supply Redundancy section.

4.6 Power Supply Redundancy

**Important!** Installation of this equipment must comply with local and national electrical codes. If necessary, consult with the appropriate regulatory agencies and inspection authorities to ensure compliance.

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.

**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.

Most installations will have redundant, dual, independent power feeds. Each independent power feed will be referenced as A and B.

- The recommended installation is to wire each supply to independent power feed (A or B).

Each power supply includes a fan that maintains proper power supply temperature. The following appendices display the location of the following component on all switches described in this guide. 

- Appendix C displays the front panel location of the supervisor modules and line cards.
- Appendix D displays the rear panel location of switch card modules (not visible), fans, and PSUs.

**Important!** This unit requires over-current protection.

Cet appareil nécessite de protection contre les surintensités.

**Important!** Unused slots must be occupied or covered with a blank to ensure proper airflow through the chassis.

Les emplacements inutilisés doivent être occupés ou recouvert d'un blanc pour assurer la bonne circulation d'air dans le châssis.

4.7 Connecting Supervisor Cables

Supervisor modules contain console, management, and USB ports. **Figure 4-5 and Figure 4-5** display port and status LED locations on the supervisors. Refer to the chassis specification in Table 4-3 for additional information about the serial port.
Figure 4-4: Supervisor CCS-750-SUP100

1 Supervisor status LED 5 Switch card status LED 9 SFP and RJ-45 Ethernet management ports
2 Supervisor active status LED 6 Fan status LED 10 RJ-45 Serial management port
3 PSU status LED 7 Uplink status LED 11 USB Port
4 Line card status LED 8 Supervisor/Uplink ports (2x QSFP100) 12 Release

Figure 4-5: Supervisor CCS-750-SUP25

1 Supervisor status LED 5 Switch card status LED 9 SFP and RJ-45 Ethernet management ports
2 Supervisor active status LED 6 Fan status LED 10 RJ-45 Serial management port
3 PSU status LED 7 Uplink status LED 11 USB Port
4 Line card status LED 8 Supervisor/Uplink ports (4x SFP25) 12 Release

- **Console (Serial) Port**: Connect to a PC with RJ-45 to DB-9 serial adapter cable. Default switch settings include:
  - 9600 baud
  - No flow control
  - 1 stop bit
  - No parity bits
  - 8 data bits

The supervisor cards must be installed in one of the two slots designated for them. They are shown in Appendix C for the switches.
Table 4-3 RJ-45 to DB-9 Connections

<table>
<thead>
<tr>
<th>RJ-45</th>
<th>DB-9</th>
<th>RJ-45</th>
<th>DB-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTS</td>
<td>1</td>
<td>GND</td>
<td>5</td>
</tr>
<tr>
<td>DTR</td>
<td>2</td>
<td>RXD</td>
<td>6</td>
</tr>
<tr>
<td>TXD</td>
<td>3</td>
<td>DSR</td>
<td>7</td>
</tr>
<tr>
<td>GND</td>
<td>4</td>
<td>GND</td>
<td>5</td>
</tr>
</tbody>
</table>

- **Ethernet management port**: Connect to 10/100/1000 management network with RJ-45 cable.
- **USB Port**: May be used for software or configuration updates.
- **Uplink Port**: Use the relevant optics for connection.

4.8 Connecting Line Card Modules and Cables

Install required SFP, SFP+, QSFP+, QSFP100, OSFP, and QSFP-DD optic modules in line card module ports (Figure 4-6).

Figure 4-6: SFP or SFP+ ports

Connect cables as required to line card module ports. Supervisor and line card module ejectors on the front of the chassis assist with cable management.

**Caution**

Excessive bending can damage interface cables, especially optical cables.

**Note**

You must ensure that any open slots for modules, supervisors, linecards, etc. are covered by the appropriate “blank” plates. Check with your local Arista Networks representative if you have questions.
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) 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.

**Step 1** Provide power to the switch (Chapter 4).

**Step 2** Connect the console port to a PC.

As the switch boots without a startup-config file, it displays this message 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:
```

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

```
localhost login:admin
```

**Step 4** Cancel ZTP mode by typing zerotouch cancel. **IMPORTANT: This step initiates a switch reboot.**

```
localhost>zerotouch cancel
```

**Step 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
```

**Step 6** Enter global configuration mode.

```
localhost>enable
localhost#config
```
Step 7  Assign a password to the admin username with the username secret command.

    localhost(config)#username admin secret pxq123

Step 8  Configure a default route to the network gateway.

    localhost(config)#ip route 0.0.0.0/0 192.0.2.1

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

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

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

    localhost#copy running-config startup-config

Step 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.
Appendix A

Status Indicators

A.1 Supervisor Module

While the front panel of each switch can house two supervisors, switch operations require only one. Supervisors display switch status and contain Ethernet management and console ports. The supervisor provides:

- one serial console port
- two Ethernet management ports (one RJ-45, one optical)
- one USB port
- two QSFP100 (CCS-750-SUP100) or four SFP25 (CCS-750-SUP25) supervisor/uplink ports
- several system level status indicator LEDs (Section A.1.1).

A.1.1 System Level Status Indicator LEDs: CCS-750-SUP100

The system status indicator LEDs are shown in Figure A-1 and Figure A-2.

Figure A-1: Supervisor CCS-750-SUP100

1. There is a similar mechanism on the left.
A.1.2 Supervisor Status LEDs Behavior

Note

LED behavior is described for the active supervisor, except where noted.

A.1.2.1 Supervisor Status LED

Table A-1 interprets the states of the supervisor status LED, s for both the active and the redundant supervisor module.

Table A-1 Supervisor status LED states

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Supervisor has no power or is powering up.</td>
</tr>
<tr>
<td>Blinking Green</td>
<td>Supervisor is booting. System can take up to 30 minutes to come up. All other LEDs will also be off.</td>
</tr>
<tr>
<td>Green</td>
<td>Supervisor is operating normally (master supervisor). System is good.</td>
</tr>
<tr>
<td>Yellow/Amber/Orange</td>
<td>System is overheating or has been disabled by software.</td>
</tr>
<tr>
<td>Blinking Blue</td>
<td>Locater function enabled by CLI (Beacon).</td>
</tr>
</tbody>
</table>

A.1.2.2 Supervisor Active Status LED

Table A-2 interprets the states of the supervisor active status LED.

Table A-2 Supervisor Active status LED states

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Supervisor is the standby supervisor. All other LEDs except Supervisor Status remain off.</td>
</tr>
<tr>
<td>Green</td>
<td>Supervisor is the Active supervisor.</td>
</tr>
</tbody>
</table>
A.1.2.3  PSU Status LED

Table A-3 interprets the states of the PSU status LED.

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>PSU not detected, installed or powered.</td>
</tr>
<tr>
<td>Green</td>
<td>All installed PSUs are operating normally.</td>
</tr>
<tr>
<td>Red</td>
<td>One or more PSU has a fault.</td>
</tr>
</tbody>
</table>

A.1.2.4  Linecard Status LED

Table A-4 interprets the states of the Linecard status LED.

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Linecard not detected, installed or powered.</td>
</tr>
<tr>
<td>Green</td>
<td>All installed linecards are operating normally.</td>
</tr>
<tr>
<td>Yellow/Amber/Orange</td>
<td>One or more linecard is booting up or being updated.</td>
</tr>
<tr>
<td>Red</td>
<td>One or more linecards have failed.</td>
</tr>
</tbody>
</table>

A.1.2.5  Switchcard Status LED

Table A-5 interprets the states of the switchcard status LED.

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Switchcard not detected, installed or powered.</td>
</tr>
<tr>
<td>Green</td>
<td>All installed switchcards are operating normally.</td>
</tr>
<tr>
<td>Yellow/Amber/Orange</td>
<td>One or more switchcard is booting up or being updated.</td>
</tr>
<tr>
<td>Red</td>
<td>One or more switchcards have failed.</td>
</tr>
</tbody>
</table>

A.1.2.6  Fan Status LED

Table A-6 interprets the states of the Fan status LED.

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>No fan detected.</td>
</tr>
</tbody>
</table>
A.1.2.7 Management Ethernet Port Status LED

Table A-7 interprets the states of the management Ethernet port status LED.

<table>
<thead>
<tr>
<th>LED</th>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Left</td>
<td>Off</td>
<td>Port is not linked up.</td>
</tr>
<tr>
<td>Left</td>
<td>Green</td>
<td>Port is linked up.</td>
</tr>
<tr>
<td>Right</td>
<td>Off</td>
<td>Port has no activity.</td>
</tr>
<tr>
<td>Right</td>
<td>Green</td>
<td>Port has activity.</td>
</tr>
</tbody>
</table>

A.1.2.8 Uplink Status LED

Table A-8 interprets the states of the uplink status LED.

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Supervisor is not powered up or inserted.</td>
</tr>
<tr>
<td>Green</td>
<td>Uplink card is operating normally.</td>
</tr>
<tr>
<td>Yellow/Amber/Orange</td>
<td>Uplink card is booting up or being updated.</td>
</tr>
<tr>
<td>Red</td>
<td>Uplink card power has failed.</td>
</tr>
</tbody>
</table>

Note

Uplink and supervisor are on independent power domains so one can be up while the other is down.

A.2 Line Card Module Indicators

Each line card module provides one status LED plus LEDs for each port on the card. Figure A-3 shows a representative line card. The figures in Appendix E indicate the location of the LEDs on each line card.
Appendix A: Status Indicators

A.2.1 Line card Module Status LEDs Behavior

Table A-9 interprets the states of the linecard module status LED located on the individual line card.

A.2.1.1 Line Card Module Status LED

Table A-9 Linecard module status LED states

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Linecard not inserted or powered.</td>
</tr>
<tr>
<td>Green</td>
<td>Linecard operating normally.</td>
</tr>
<tr>
<td>Yellow/Amber/Orange</td>
<td>Linecard is booting up or being updated.</td>
</tr>
<tr>
<td>Blinking Red</td>
<td>Locater function is enabled (Beacon).</td>
</tr>
<tr>
<td>Red</td>
<td>Line card has failed.</td>
</tr>
</tbody>
</table>

Table A-10 interprets the states of the port status LED located by each port on the line card.

Table A-10 Port status LED states

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Port link is down.</td>
</tr>
<tr>
<td>Green</td>
<td>Port link is up.</td>
</tr>
<tr>
<td>Yellow/Amber/Orange</td>
<td>Port is being administered by software.</td>
</tr>
<tr>
<td>Blinking Yellow/Amber/Orange</td>
<td>Locater function is enabled (Beacon).</td>
</tr>
</tbody>
</table>

A.3 Switch Card Module Status Indicators

Appendix D displays the position of the Switch Card Module Status LEDs on the rear of each switch. Figure A-4 displays fan module status and switch card module status LEDs on the 755 switch.
Figure A-4: 755 Switch card module and fan module status LEDs

1. Fan module 1 status LED
2. Fan module 1
3. Fan module 1 release
4. Switch card release
5. Switch card module status LED
6. Switch card module active status LED
7. Switch card release

Figure A-5 displays fan module status and switch card module status LEDs on the 758 switch.
Appendix A: Status Indicators

Quick Start Guide: 750 Series Modular Switches

Figure A-5: 758 Switch card module and fan module status LEDs

A.3.1 Switch Card Module Status LEDs Behavior

There are two LEDs for the Switch Card status. Only one of the switch cards is active. The second provides redundancy. The switch card module LEDs are on the rear panel of the switches.

Note

LED behavior is described for the active Switch Card, except where noted.

A.3.1.1 Switch Card Module Status LED

Table A-12 interprets the states of the switch card module status LED.

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Switch Card does not have power.</td>
</tr>
</tbody>
</table>
Table A-11 Switch Card Module status LED states (Continued)

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>All installed switch cards are working normally.</td>
</tr>
<tr>
<td>Yellow/Amber/Orange</td>
<td>Switch card is booting up or being updated.</td>
</tr>
<tr>
<td>Red</td>
<td>One or more switch cards have failed.</td>
</tr>
</tbody>
</table>

A.3.1.2 Switch Card Module Active Status LED

Table A-12 interprets the states of the switch card module active status LED.

Table A-12 Switch Card Module Active status LED states

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Switch card is in standby mode.</td>
</tr>
<tr>
<td>Green</td>
<td>Switch card is in active mode.</td>
</tr>
</tbody>
</table>

A.4 Fan Module Status Indicators

The fan module status LED are on the fan modules. Figure A-6 displays the LED on the fan module.

Figure A-6: Fan module status LED

1 Release
2 Fan module status LED

Note

Bezel color indicates airflow direction.

Table A-13 interprets the states of the switch card module active status LED.
A.5 **Power Supply Status Indicators**

The power supply status LED is on the power supply modules. *Figure A-7* displays the LED on the PWR-3351-AC-RED AC power supply.

*Figure A-7: AC power supply (PWR-3351-AC-RED)*

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Fan does not have power.</td>
</tr>
<tr>
<td>Green</td>
<td>Fan module is working normally.</td>
</tr>
<tr>
<td>Flashing red</td>
<td>Locator function is enabled (Beacon).</td>
</tr>
<tr>
<td>Red</td>
<td>Fan module has failed.</td>
</tr>
</tbody>
</table>

**Table A-13  Fan Module status LED states**

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>No AC Input or 140V &lt; AC &lt; 175V - single PSU.</td>
</tr>
<tr>
<td>Blinking Amber</td>
<td>No AC Input or 140V &lt; AC &lt; 175V – multiple PSUs.</td>
</tr>
<tr>
<td>Blinking Green</td>
<td>Standby Mode.</td>
</tr>
<tr>
<td>Green</td>
<td>Normal Operation.</td>
</tr>
</tbody>
</table>

**Note**

Handle color indicates airflow direction.

*Table A-14* interprets the AC power supply module LED status indicators with multiple PSU present in the system.

**Table A-14  AC Power supply status LED states**

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>No AC Input or 140V &lt; AC &lt; 175V - single PSU.</td>
</tr>
<tr>
<td>Blinking Amber</td>
<td>No AC Input or 140V &lt; AC &lt; 175V – multiple PSUs.</td>
</tr>
<tr>
<td>Blinking Green</td>
<td>Standby Mode.</td>
</tr>
<tr>
<td>Green</td>
<td>Normal Operation.</td>
</tr>
</tbody>
</table>
Table A-14 AC Power supply status LED states (Continued)

<table>
<thead>
<tr>
<th>State</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amber</td>
<td>PSU module has failed.</td>
</tr>
<tr>
<td>Blinking Amber and Green^2</td>
<td>Boot Loader.</td>
</tr>
</tbody>
</table>

1. 1 second ON, 1 second OFF  
2. 1 second ON, alternating
Each switch has an accessory kit that contains parts required to install the switch. Table B-1 provides further details on the accessory kit for each switch. The following sections in the chapter list the installation parts provided by the accessory kit in more details.

<table>
<thead>
<tr>
<th>Common cables and accessories (See Section B.1)</th>
<th>755</th>
<th>758</th>
</tr>
</thead>
<tbody>
<tr>
<td>Included</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Two-post rack mount kit (KIT-CCS-750) (See Section B.2)

| Included                                        |     |     |

Four-post rack mount kit (KIT-CCS-750-4P) (See Section B.3)

| Optional                                       |     |     |

Four-post rack mount kit (KIT-CCS-750-4PL) (See Section B.4)

| Optional                                       |     |     |

Power Cords

|     |     |     |

**Warning**

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

Câbles d'alimentation doivent être utilisés uniquement avec des produits de Arista

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.1 Parts Used in All Rack Mount Configurations

B.1.1 Cables

Table B-2 Cables Provided in Accessory Kit

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RJ45 To DB9 Adapter with a 6-foot rolled cable.</td>
</tr>
<tr>
<td>1</td>
<td>Seven-foot RJ45 Patch panel cable.</td>
</tr>
</tbody>
</table>

B.1.2 Getting-Started Booklet

One 2-page document

B.2 Two-Post Rack Mount Parts

The following sections list the parts provided in the accessory kit for two-post rack mount installations.

Table B-3 Two-Post rack mount parts

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cradle assembly.</td>
</tr>
<tr>
<td>4</td>
<td>Mounting brackets/ears (flange).</td>
</tr>
<tr>
<td>16</td>
<td>Rack mounting screws and rack nuts</td>
</tr>
<tr>
<td>16</td>
<td>Flat-head screws</td>
</tr>
</tbody>
</table>

Figure B-1: Two-Post rack mount parts

1 Mounting brackets/ears       3 Rack mounting screws and rack nuts
2 Cradle assembly

Note

There may be extra parts after a CCS-755 installation.
B.3 Four-Post Rack Mount Parts (Optional)

The following sections list the parts provided in the accessory kit for four-post rack mount installations.

Table B-4 Four-Post rack mount parts

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cradle assembly</td>
</tr>
<tr>
<td>4</td>
<td>Mounting brackets/ears (flange)</td>
</tr>
<tr>
<td>20</td>
<td>Rack mounting screws and rack nuts</td>
</tr>
<tr>
<td>16</td>
<td>Flat-head screws</td>
</tr>
</tbody>
</table>

Figure B-2: Four-Post rack mount parts

1. Mounting brackets/ears
2. Cradle assembly
3. Rack mounting screws and rack nuts

B.4 Four-Post (Extended Depth) Rack Mount Parts (Optional)

The following sections list the parts provided in the accessory kit for four-post rack mount installations.

Table B-5 Four-Post rack mount parts

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cradle assembly</td>
</tr>
<tr>
<td>4</td>
<td>Mounting brackets/ears (flange)</td>
</tr>
<tr>
<td>20</td>
<td>Rack mounting screws and rack nuts</td>
</tr>
<tr>
<td>16</td>
<td>Flat-head screws</td>
</tr>
</tbody>
</table>
Figure B-3: Four-Post rack mount parts

1. Mounting brackets/ears
2. Cradle assembly
3. Rack mounting screws and rack nuts
Front Panel

This appendix displays the front panel of all switches covered by this guide.

Figure C-1: CCS-755 front panel (fully populated)

1 Grounding locations
2 ESD attach point
3 Line cards
4 Supervisor modules
Figure C-2: CCS-758 front panel (fully populated)

1. Grounding locations
2. ESD attach point
3. Line cards
4. Supervisor modules
Appendix D

Rear Panel

This appendix displays the rear panel of all switches covered by this guide.

Figure D-1: CCS-755 rear panel (fully populated)
Figure D-2: CCS-758 rear panel (fully populated)

1 Chassis ground
2 PSUs (1, 3, 5, 7, 9 - From top)
3 Fans and switchcard module 1
4 Switchcard ejector - SC1
5 Ejector latch - SC1
6 Fans and switchcard module 2
7 Switchcard ejector - SC2
8 Ejector latch - SC2
9 PSUs (2, 4, 6, 8, 10 - From top)
10 Chassis ground
11 ESD attachment point
12 Switchcard ejector - SC2
13 Ejector latch - SC2
14 Switchcard ejector - SC1
15 Ejector latch - SC1
Appendix E

Line Cards

This appendix displays the line cards supported by modular switches covered by this guide.

**Figure E-1: CCS-750X-48ZXP**

1. Line card status LED
2. Port status LED
3. Port numbers

**Note**

Ports 5 to 16, 21 to 32, and 37 to 48 are 100M-capable ports.

**Figure E-2: CCS-750X-48TP**

1. Line card status LED
2. Port status LED
3. Port numbers
Appendix E: Line Cards

Figure E-3: CCS-750X-48ZP

1 Line card status LED
2 Port status LED
3 Port numbers
Maintenance and Field Replacement

This appendix describes the process for replacing switch components. You must ensure that at least one of the secondary grounding pads located on the front panel of the chassis is connected to the data center ground. While working on the switches, use grounded, anti-static wrist straps connected to one of the attach points on the switch for grounding yourself and preventing ESD damage to the switch.

**Note**
Illustrations in this appendix are examples for a representative switch and component(s). Procedures must be applied to component(s) supported by the specific device. You must use component(s) and the appropriate slots for those component(s) when replacing or adding them.

### F.1 Power Supplies
The switches support AC Power supplies which must be ordered separately. The following steps are required for ESD protection when adding or replacing power supplies.

**Note**
For the exact locations of power supplies and grounding for your device, refer to Appendix C and Appendix D.

**Step 1** Ensure that the switch is grounded.
  a. Connect at least one of the chassis grounding pads located on the front and rear panels of the chassis to the data center ground as needed.

**Step 2** Ground yourself using a connected, anti-static wrist strap.
  a. The anti-static ESD wrist strap must be connected to one of the attach points on the switch.

**Step 3** Remove the power supply to be replaced (Removing AC Power Supply) or use an empty slot.

**Note**
For the power supplies supported by your device, refer to Table 1-2. If the PSU has a cable release latch, use it for securing and removing the power cord as needed.
F.1.1 Removing AC Power Supply
Perform the following steps to remove an AC power supply.

Step 1 Put on a grounded, anti-static ESD strap.
Step 2 Unplug the cable from the PSU.
Step 3 Squeeze the latch release.
Step 4 Remove the power supply from the switch using the power supply latch release and handle.

F.1.2 Installing AC Power Supply
You must make space for installing the power supply by removing an existing one (Removing AC Power Supply) or use an available slot on the switch. Perform the following steps to install an AC power supply.

Step 1 Put on a grounded, anti-static ESD strap.
Step 2 Unpack the new power supply.
Step 3 Insert the new power supply into the empty power supply slot.
Step 4 After you insert the power supply, push gently on the power supply until the power supply is fully seated.
Step 5 Connect the power cord to the power supply.
Step 6 Connect to the power source.
Step 7 Verify normal operation using the LED indicators for your switch Table A-14 on page 41.

F.2 Fan Module
The fan modules are hot-swappable and N+1 redundant. They are accessible from the rear of the switch (Appendix D). You must take into account that the module you are inserting is compatible with the switch and the module that you are replacing. Perform the following steps to remove and replace a fan module.

F.2.1 Removing Fan Module
Step 1 Put on a grounded, anti-static ESD strap.
Step 2 Use the release lever to unseat the fan module.
Step 3 Use the handle to pull out the fan module.

F.2.2 Installing Fan Module
You must make space for installing the module by removing an existing one (Removing Fan Module) from a fan module slot available on the switch. Perform the following steps to install the module.

Step 1 Put on a grounded, anti-static ESD strap.
Step 2 Unpack the module to be installed.
Step 3 Slide the fan module into the slot until it is completely seated.
Step 4 Verify that the module is operating normally (Table A-12 on page 40).
Step 5 Use the `show environment cooling` command to further verify normal operation.
F.3 Supervisor Module

The supervisor modules are hot-swappable. They are accessible from the front of the switch. You must take into account that the module you are inserting is compatible with the switch and the module that you are replacing. Use the following procedure to remove and replace a supervisor module. For the supervisor module locations for your device, refer to Appendix C.

F.3.1 Removing Supervisor Module

Perform the following steps to remove the module.

Step 1 Put on a grounded ESD strap.

Step 2 Use the release handles on the Supervisor card to unseat it.

Step 3 Slide supervisor module out of the slot.

F.3.2 Removing Supervisor Module Blank

The supervisor module blank has plastic latches.

Step 1 Put on a grounded, anti-static ESD strap.

Step 2 Grip the plastic handles to release the latch and remove the blank from the supervisor module slot you are going to populate.

You may want to save the blank for future use as needed. The blank is needed for the switch to operate normally if a supervisor module slot is not populated.

F.3.3 Installing Supervisor Module

You must make space for installing the module by removing an existing one (Removing Supervisor Module) or removing a blank (Removing Supervisor Module Blank) from a supervisor module slot available on the switch. Perform the following steps to install the module.

Step 1 Put on a grounded, anti-static ESD strap.

Step 2 Unpack the supervisor module to be installed.

Step 3 Slide supervisor module into slot until it is completely seated.

Step 4 Verify that the module is operating normally (Table A-2 on page 34).

F.4 Linecards

The linecards are hot-swappable. They are accessible from the front of the switch. You must take into account that the linecard you are inserting is compatible with the switch and the linecard that you are replacing. Use the following procedure to remove and replace a linecard. If you are adding a new linecard, remove the blank from the linecard slot and install the new linecard. For the linecard locations on your switch, refer to Appendix C. Figure F-1 shows linecards with the seating or ejector mechanisms along with some fully seated linecards.
F.4.1 Removing Linecard

Perform the following steps to remove a linecard.

**Step 1**  Put on a grounded, anti-static ESD strap.

**Step 2**  Move the left and right handle outwards until the ejector lever releases the linecard.

**Step 3**  Slide the linecard out using care as the linecard could be heavy.

F.4.2 Removing Linecard Blank

The linecard blank has plastic latches.

**Step 1**  Put on a grounded, anti-static ESD strap.

**Step 2**  Grip the plastic handles to release the latch and remove the blank from the linecard slot you are going to populate.

You may want to save the blank for future use as needed. The blank is needed for the switch to operate normally if a linecard slot is not populated.
F.4.3 Installing Linecard

You must make space for installing the linecard by removing an existing one (Removing Linecard) or removing a blank (Removing Linecard Blank) from a linecard slot available on the switch.

Step 1  Put on a grounded, anti-static ESD strap.
Step 2  Unpack the linecard to be installed.
Step 3  Slide the linecard into the slot until the ejection lever goes inside the chassis and push gently until the linecard is seated completely.
Step 4  Verify that the linecard is operating normally (Table A-9 on page 37).

Note  The ejector handle is perpendicular to the face when correctly installed.

F.5 Switchcards

The switchcards are hot-swappable and 1 + 1 redundant. They are accessible from the rear of the switch (Appendix D). You must take into account that the switchcard you are inserting is compatible with the switch and the switchcard that you are replacing. Use the following procedure to remove and replace a switchcard. For the switchcard locations on your switch, refer to Appendix D.

F.5.1 Removing Switchcard

Perform the following steps to remove a switchcard.

Step 1  Put on a grounded, anti-static ESD strap.
Step 2  Use the release handles of the switchcard to unseat it.
Step 3  Pull the switchcard out gently once released.

Note  When the switchcard and fan assembly is removed, a metal cover swings into place (Figure F-2).

Figure F-2: 758 rear view with one switchcard installed
F.5.2 Installing Switchcard

You must make space for installing the switchcard by removing an existing one from a switchcard slot available on the switch unless an open slot is available.

**Step 1** Put on a grounded, anti-static ESD strap.

**Step 2** Unpack the switchcard to be installed.

**Step 3** Slide the switchcard into the slot until it is completely seated.

**Step 4** Verify that the switchcard is operating normally (Table A-11 on page 39).

Figure F-3 shows switchcard installation. The switchcard on the right is fully seated with the latch closed.

**Figure F-3: 758 switchcard installation**

1 Switch Card
2 Ejector mechanism (handle and latch)
3 Ejector (switchcard not seated)
4 Ejector latch (closed)
Appendix G

Regulatory Model Numbers

This appendix lists the regulatory model numbers (RMNs), where applicable, for the product models for the switches described in this document.

Table G-1  Regulatory Model Numbers and Product Numbers

<table>
<thead>
<tr>
<th>Regulatory Model Number (RMN)</th>
<th>Product Number(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCS-755</td>
<td>CCS-755</td>
</tr>
<tr>
<td>CCS-758</td>
<td>CCS-758</td>
</tr>
</tbody>
</table>
Taiwan RoHS Information

This appendix provides Taiwan RoHS information for switches covered by this guide.
For Taiwan BSMI RoHS Table, go to https://www.arista.com/assets/data/pdf/AristaBSMIRoHS.pdf.