# QUICK START GUIDE

# 1RU VeloCloud SD-WAN Edge Appliances

**SDE-EDG-4100**
**SDE-EDG-5100**

Arista.com

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


© Copyright 2026 Arista Networks, Inc. All rights reserved. The information contained herein is subject to change without notice. The trademarks, logos, and service marks ("Marks") displayed in this documentation are the property of Arista Networks in the United States and other countries. Use of the Marks is subject to the Arista Networks Terms of Use Policy, available at www.arista.com/en/terms-of-use. Use of marks belonging to other parties is for informational purposes only.

# Contents

# Chapter 1

# Overview

Arista VeloCloud SD-WAN Edge appliances are enterprise-class appliances that deliver secure and optimized connectivity to cloud and on-premise applications. The Arista VeloCloud Edge appliance(s) provide the following features:

- Its zero-touch provisioning feature establishes secure connections to applications
- Automatically aggregates multiple Internet links and intelligently directs traffic over the best available routes using Dynamic Multipath Optimization™ (DMPO) and deep application recognition (DAR)
- Supports high availability (HA) deployment models and can seamlessly integrate into existing networks
- Offers an Enhanced Firewall Service that includes features such as Intrusion Detection/Prevention System (IDS/IPS), URL filtering, and malicious IP filtering

> **Note:** This additional layer of security serves as a barrier between a private network and the public Internet, and is crucial for protecting branch sites from unauthorized access and threats.

The Overview section discusses the following topics:

- Scope
- Receiving and Inspecting the Equipment
- Installation Process
- Safety Information
- Obtaining Technical Assistance
- Specifications

## 1.1 Scope

This guide is intended for trained service personnel and technicians who need to install and configure Arista VeloCloud SD-WAN Edge appliances with the specified SKU format:

- SDE-EDG-4100, 1RU appliance
- SDE-EDG-5100, 1RU appliance

> **Note:**
>
> Only qualified personnel should install, service, or replace this equipment.
>
> Seul le personnel qualifié doit installer, service, ou remplacer cet équipement.

## 1.2 Receiving and Inspecting the Equipment

When you receive the VeloCloud SD-WAN Edge appliance(s), inspect the shipping boxes for any external damage. If you believe any part of the shipment is damaged, keep the packing materials, as the carrier may need to inspect them.

If the boxes arrived undamaged, unpack them with care. Do not discard any accessories that may have been included with the main unit.

Review the packing list and verify that you received all items listed. Cross-check the packing list with your purchase order. The Parts List contains a list of components included with the Arista VeloCloud Edge appliance.

## 1.3 Installation Process

The following tasks are required to install and select the Arista VeloCloud SD-WAN Edge appliance:

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

**Note:**

**Class 1 Laser Product:**This product is designed to install Class 1 laser transceivers, which provide essential optical coupling to the communication network. After you install a Class 1 laser transceiver, your equipment will be classified as a Class 1 Laser Product (Appareil à Laser de Classe 1). You must perform the following tasks:

- Select and install the appropriate Class 1 laser transceiver.
- After installation, ensure that the Allowable Emission Limit (Class 1 AEL) adheres to the standards set forth by EN/IEC 60825, CSA E60825-1, and the Code of Federal Regulations 21 CFR 1040.
- Install laser products rated higher than Class 1.
- Adhere to all safety instructions that accompanied the transceiver prior to installation.
- Select only Class 1 laser devices that have been certified by the relevant authority in your country.

**Produit Laser de classe 1:** Ce produit est conçu pour l'installation d'émetteurs-récepteurs laser de classe 1, qui assurent le couplage optique essentiel au réseau de communication. Après l'installation d'un émetteur-récepteur laser de classe 1, votre équipement sera classé comme appareil laser de classe 1. Vous devez effectuer les tâches suivantes:

- Sélectionnez et installez l'émetteur-récepteur laser de classe 1 approprié
- Après l'installation, assurez-vous que la limite d'émission admissible (AEL de classe 1) est conforme aux normes EN/IEC 60825, CSA E60825-1 et au Code of Federal Regulations 21 CFR 1040
- Installez des produits laser de classe supérieure à 1
- Respectez toutes les consignes de sécurité fournies avec l'émetteur-récepteur avant l'installation.
- Utilisez uniquement des lasers de classe 1 certifiés par l'autorité compétente de votre pays.

**Note:**

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 *Compliance and Safety Guides* document, translated into several languages and available at the bottom of the page of the **Hardware** tab 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**: mailto:support@arista.com.

  This is the easiest way to create a new service request. Include a detailed description of the problem.

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

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

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

**Note:**

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: Arista VeloCloud SD-WAN Edge Appliance Specifications (RUs, Dimensions, and Weight)**

| Arista VeloCloud SD-WAN Edge Appliance SKU | Rack Units (RUs) | Dimensions (W x H x D) | Weight |
|---|---|---|---|
| Arista VeloCloud SD-WAN Edge 4100 Appliance | 1 | 43.8 x 4.4 x 42 cm<br>(17.2 x 1.7 x 16.5 in) | 7.7 kg<br>(17 lbs.) |
| Arista VeloCloud SD-WAN Edge 5100 Appliance | 1 | 43.8 x 4.37 x 60 cm<br>(17.2 x 1.7 x 23.6 in) | 11.7 kg<br>(26 lbs.) |

**Table 2: Arista VeloCloud SD-WAN Edge Appliance Specifications (Operational and Storage)**

| Arista VeloCloud SD-WAN Edge Appliance SKU | Operating Temperature | Storage Temperature | Operating Altitude | Relative Humidity |
|---|---|---|---|---|
| Arista VeloCloud SD-WAN Edge 4100 Appliance | 0° to 40°C<br>(32° to 104°F) | -40 to 70 °C<br>(-40 to 158 °F) | 0 to 5000 meters<br>0 to 16404.2 feet | 95% |
| Arista VeloCloud SD-WAN Edge 5100 Appliance | 0° to 40°C<br>(32° to 104°F) | -40 to 70 °C<br>(-40 to 158 °F) | 0 to 5000 meters<br>0 to 16404.2 feet | 95% |

**Table 3: Arista VeloCloud SD-WAN Edge Appliances Specifications (Power Input)**

| Arista VeloCloud SD-WAN Edge Appliance SKU | Power Input | Ratings |
|---|---|---|
| Arista VeloCloud SD-WAN Edge 4100 Appliance | Internal: AC | 100 - 240 VAC, 3.5A, 50-60 HZ |
| Arista VeloCloud SD-WAN Edge 5100 Appliance | Internal: AC | 100 - 240 VAC, 8-4A, 50-60 HZ |

**Note:** Every Arista VeloCloud SD-WAN Edge appliance comes with a PSU, separate or integrated.

**Table 4: Arista VeloCloud SD-WAN Edge Appliance Specifications (Power Draw)**

| Arista VeloCloud SD-WAN Edge Appliance SKU | Power Draw (Typical / Maximum) |
|---|---|
| Arista VeloCloud SD-WAN Edge 4100 Appliance | 195 W / 300 W |
| Arista VeloCloud SD-WAN Edge 5100 Appliance | 300 W / 550 W |

# Chapter 2

# Preparation

## 2.1 Site Selection

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

   **Important:**

   To prevent the appliance 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).

2. Airflow direction is front to back.

   **Figure 2-1: Air Flow Direction**

If the airflow direction is not compatible with the installation site, contact your sales representative to obtain modules that circulate air in the opposite direction.

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

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

- **Power Requirements:** Power requirements vary by appliance and power supply model. Table 3: Arista VeloCloud SD-WAN Edge Appliances Specifications (Power Input), provides information regarding your specific system.

  Two circuits provide redundancy protection. Cabling the Appliance describes power cable requirements.

**Note:** The handle or label color indicates airflow direction.

**Important:**

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

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

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

**Important:**

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

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

## 2.2 Tools and Parts Required for Installation

Each appliance provides an accessory kit that contains parts that are required to install the appliance. In addition to the accessory kit, the following tools and equipment are required to install the appliance:

**Four-Post Rack (Tool-less)**

No additional equipment required.

**Four-Post Rack (Conventional)**

- Screws or rack mounting nuts and bolts.
- Screwdriver.
- Four M4 screws are required to attach mounting ears to the device. These are not included.

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

## 2.3 Electrostatic Discharge (ESD) Precautions

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

- Assemble or disassemble equipment only in a static-free work area.
- Select a conductive work surface (such as an anti-static mat) to dissipate 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 Appliance

This section discusses the details of the rack mounting.

**Important:**

The rack mounting procedure is identical for all Appliances covered by this guide.

Les procédure de montage du bâti est identique pour tous les commutateurs visés par ce guide.

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

**Note:** For illustrations, use a representative Arista Appliance. Your device may be different in appearance.

## 3.1 Four-Post Rack Mount (1RU)

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

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

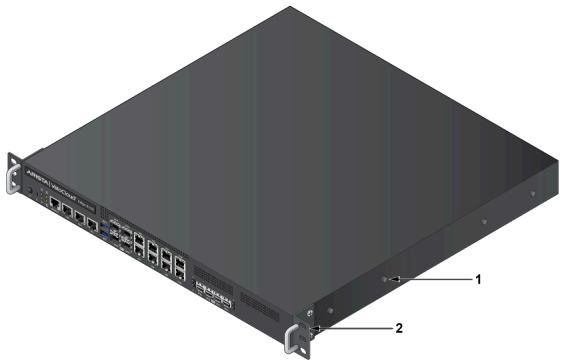
- 2 - four-hole mounting brackets
- 2 - rail-rods
- 2 - rail-slides

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

Each chassis side has attachment pins that align with bracket holes. Pin orientation is symmetric and equidistant, supporting bracket placements where the flange is flush with the front appliance panel, flush with

the rear panel, or not flush with either panel. Each bracket hole includes a key-opening for placing the bracket flush with the chassis and then locking it into place.

**Figure 3-1: Bracket Hole Placement**




| | | | |
|---|---|---|---|
| 1 | Attachment Pin | 2 | Front Clip |

## 3.1.1 Attaching Mounting Brackets to the Chassis (Four-Post)

### Extracting the Brackets and the Rails

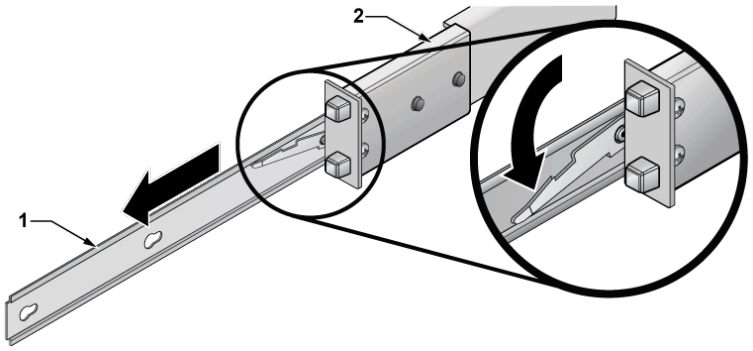
The following figure displays a bracket-rail assembly and the components (bracket and rail) extracted from the assembly kit. Separate each assembly into components before mounting the appliance into a four-post rack. The two assemblies supplied with the appliance are identical.

This procedure separates a bracket-rail assembly into its component pieces.

1. Grip the rail with one hand.
2. Pull the bracket flange away from the rail flange with your other hand until the bracket clip catches on the rail.

   If the bracket flange resists initially, verify that the thumb screw on the bracket flange is not attached to the rail flange.

   **Figure 3-2: Extracting the Brackets**




| | | | |
|---|---|---|---|
| 1 | Rail | 2 | Exploded view of Rail |

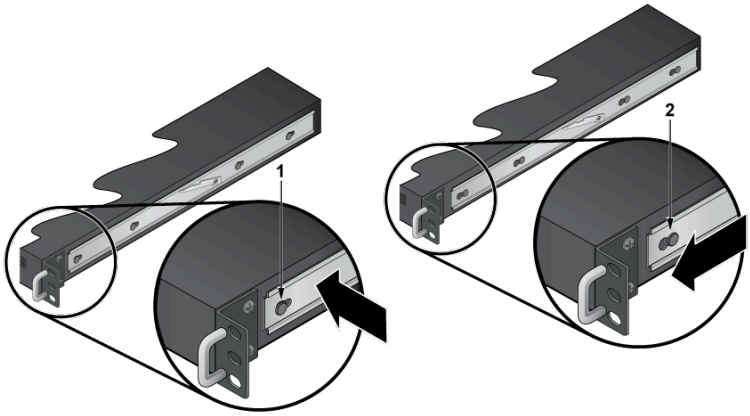
3. While pressing the locking clip on the bracket, resume pulling the bracket from the rail until the separation is complete.
4. Repeat the procedure for the other assembly.

**Attaching Mounting Brackets**

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

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

**Figure 3-3: Attaching the Mounting Brackets to the Appliance Chassis**




1 Attachment Pin 2 Key Opening

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

## 3.1.2 Assembling the Rails onto the Equipment Rack

Rail-rods and rail-slides assemble into two identical rails. Each rail connects a front post to a rear post. After installing the rails, the appliance slides on the rails into the rack. Each bracket includes a screw that attaches the appliance to the rail.

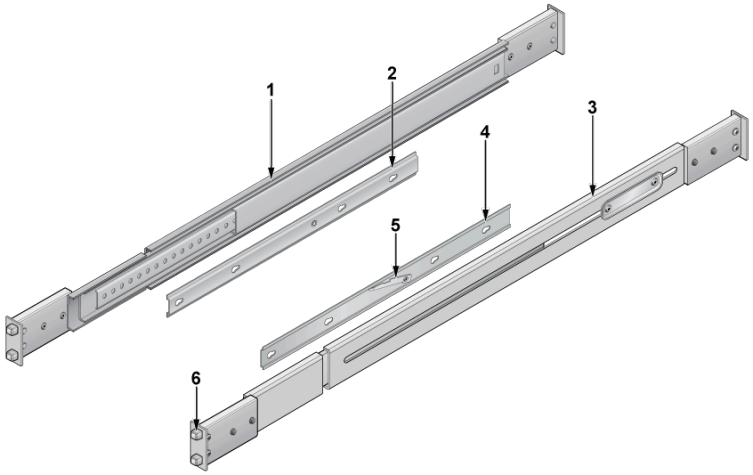
Each end of an assembled rail contains two rack plugs. You can install the rails into a rack by inserting the plugs into the slots. When installing rails into posts with threaded or rounded holes, remove all plugs on both sides of the assembled rails, then install the rails with bolts that fit the rack.

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

1. Slide a rail-rod into a rail-slide until the rail clip makes an audible click.

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

**Figure 3-4: Assembling the Rails**

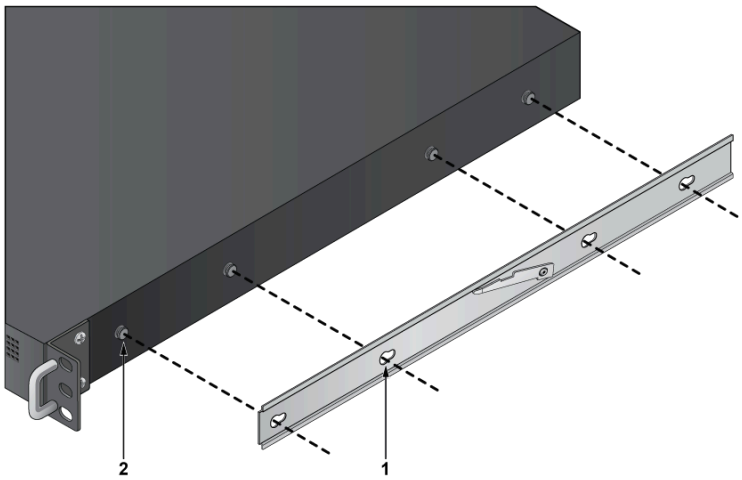



| | | | |
|---|---|---|---|
| 1 | Left Rail-slide | 4 | Right Four-hole Rail-rod |
| 2 | Left Four-hole Rail-rod | 5 | Rail Locking Mechanism |
| 3 | Right Rail-slide | 6 | Mounting Bracket and Screw |

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

   If the rack plugs were previously removed, use bolts to attach the rail to the rack.
3. Attach the slide end of the rail to the front post by extending the rail end past the post, then contracting the rail while guiding the rack plugs into the post.
4. Repeat **Step 1** through **Step 3** for the left posts. Make sure the rails are on the same horizontal level.

**Figure 3-5: Attaching the Rails**



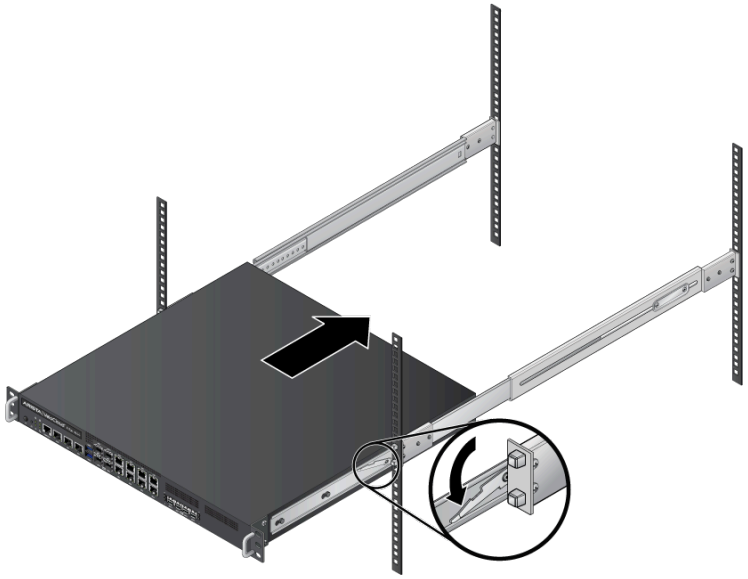

| | | | |
|---|---|---|---|
| 1 | Rail Holes | 2 | Attachment Pin |

### 3.1.3 Attaching the Appliance to the Rack

After installing the rails, the appliance slides on the rails into the rack. Each bracket includes a thumb screw that attaches the appliance to the rail.

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

   **Figure 3-6: Inserting the Appliance onto the Rails**



2. Slide the Appliance on the rails, toward the rear posts, until the mounting bracket flanges are flush with the rail flanges attached to the rack posts.
3. Attach the bracket flanges to the rack post using the quick-release thumb screws supplied with the brackets.

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

Chapter 4

# Cabling the Appliance

This section discusses the following topics:



**Note:** Arista fixed appliances take approximately 5 to 10 minutes to boot completely.

## 4.1 Connecting Power Cables

You must use an approved power cord compliant with local and national electrical codes or order one from Arista for use with the appliance. Some power cords are shipped with each appliance as part of the accessory kit.

**Important:**

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

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

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

**Important:**

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

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

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

**Important:**

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

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

**Important:**

This unit requires overcurrent protection.

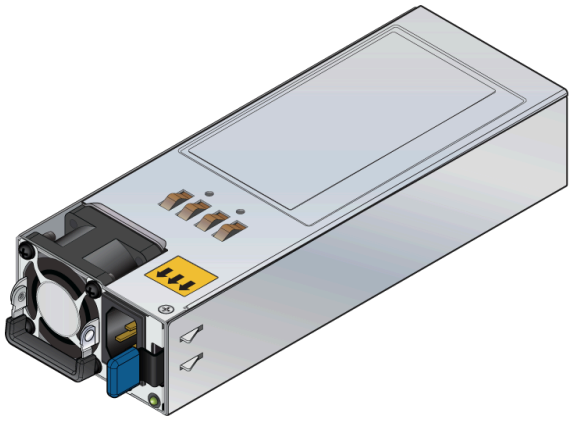
Cet appareil requiert une protection contre les surintensités.

### 4.1.1 AC Power Supplies

The SDE-EDG-4100 and SDE-EDG-5100 network appliances use two hot swappable AC power supplies.

The SDE-EDG-4100 uses two 300w AC power supplies in a 1+1 redundant configuration.

**Figure 4-1: 300w AC PSU**

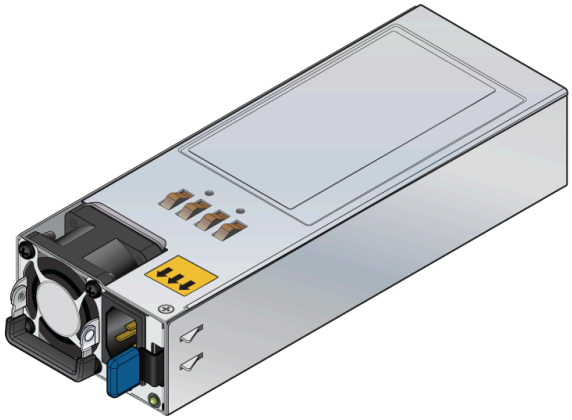


**CAUTION:**

1. Do not remove the PSU before unplugging the power cable (power cord).
2. For 1+1 redundant system power, only one PSU is allowed to be extracted at a time.
3. Do not leave the slot empty when extracting the PSU, the alternative PSU must be inserted immediately for safety purposes.

The SDE-EDG-5100 uses a 550w AC power supplies in a 1+1 redundant configuration.

**Figure 4-2: 550w AC PSU Image Title (Image needed)**



**CAUTION:**

1. Do not remove the PSU before unplugging the power cable (power cord).
2. For 1+1 redundant system power, only one PSU is allowed to be extracted at a time.
3. Do not leave the slot empty when extracting the PSU, the alternative PSU must be inserted immediately for safety purposes.

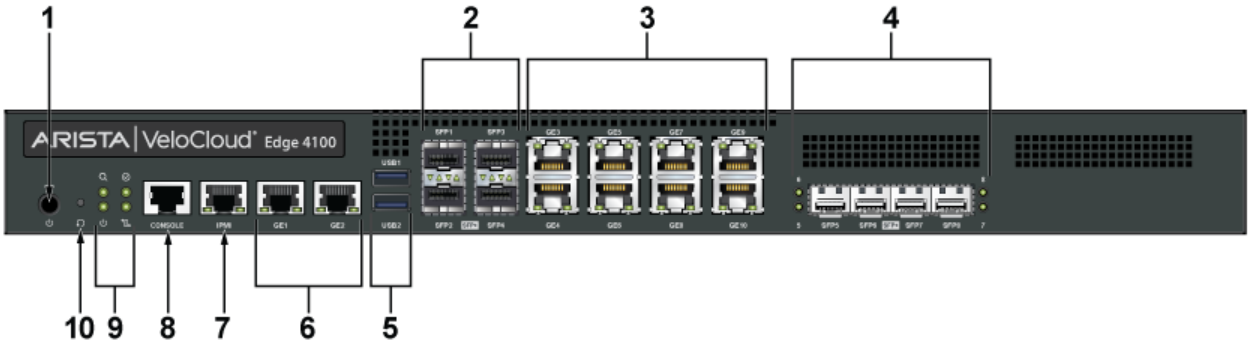
## 4.2 Connecting Serial and Management Cables

The accessory kit includes the following cables:

2 - AC power cables

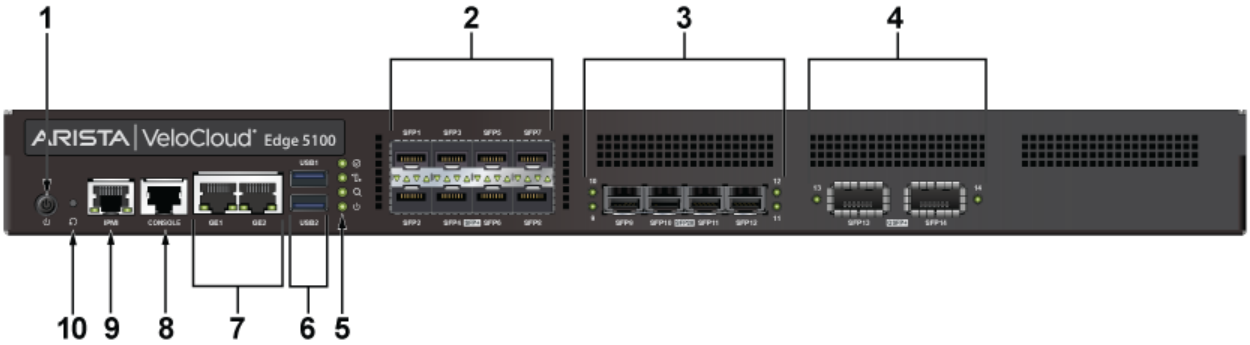
The front panel contains the console, management, and USB ports for most models. The front panel ports display the ports on the front panel of the SDE-EDG-4100 and SDE-EDG-5100 network appliances. The rear panel ports display the ports on the rear panel of the SDE-EDG-4100 and SDE-EDG-5100 network appliances. The front panel and rear panel display all network appliances this guide covers.

**Figure 4-3: Velo Edge 4100 Front Panel Ports**



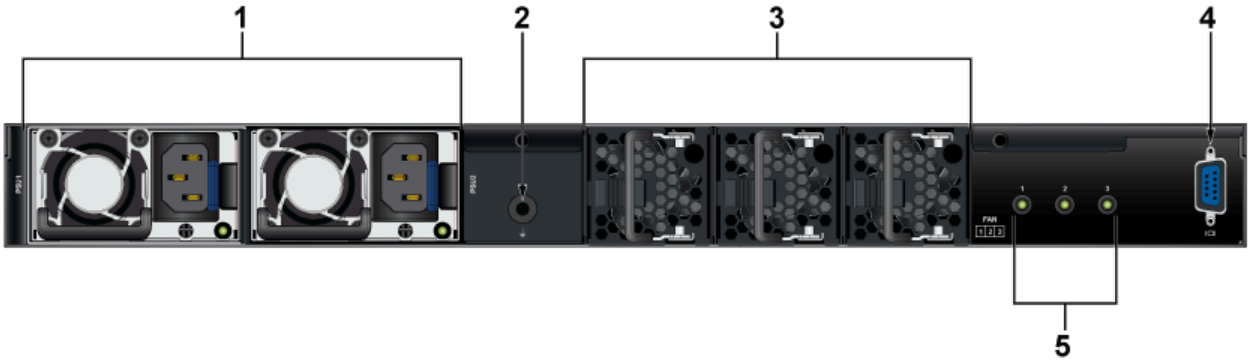

| | | | | | |
|---|---|---|---|---|---|
| 1 | Power Button | 2 | 4x10Gb SFP+ Ports (1-4) | 3 | 8x1Gb |
| 4 | 4x10Gb SFP+ Ports (5-8) | 5 | 2x USB 3.0 | 6 | 2 x RJ45 Ethernet Ports |
| 7 | Dedicated IPMI Port | 8 | Console Port | 9 | Status LED's |
| 10 | Reset Pinhole | | | | |

**Figure 4-4: Velo Edge 5100 Front Panel Ports**



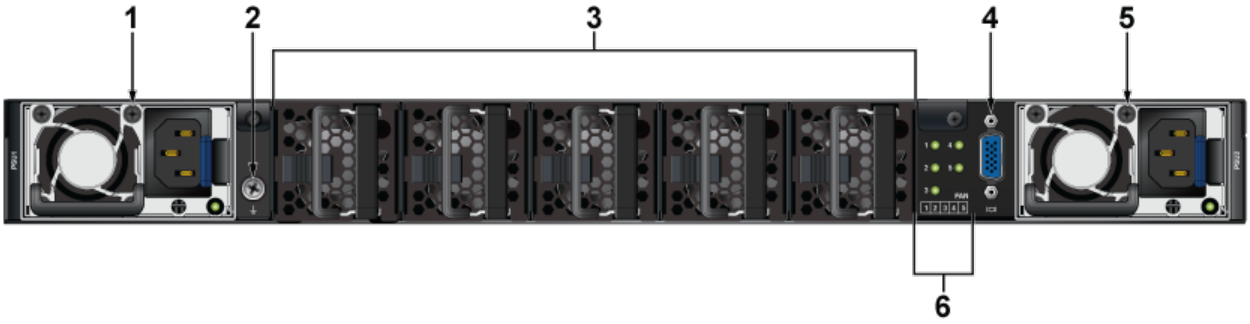

| | | | | | |
|---|---|---|---|---|---|
| 1 | Power Button | 2 | 8x10Gb SFP+ Ports | 3 | 4x25Gb SFP28 Ports |
| 4 | 2x40Gb QSFP+ Ports | 5 | 2x USB 3.0 Ports | 6 | 2 x RJ45 Ethernet Ports |
| 7 | Console Port | 8 | Dedicated IPMI Port | 9 | Status LED's |
| 10 | Reset Pinhole | | | | |

**Figure 4-5: Velo Edge 4100 Rear Panel Ports**




| | | | | | |
|---|---|---|---|---|---|
| 1 | 2x AC PSU | 2 | Grounding Lug | 3 | 3x Fans |
| 4 | VGA Display Port | 5 | Fan Status Indicators | | |

**Figure 4-6: Velo Edge 5100 Rear Panel Ports**




| | | | | | |
|---|---|---|---|---|---|
| 1 | AC PSU | 2 | Grounding Lug | 3 | 5x Fans |
| 4 | VGA Display Port | 5 | AC PSU | 6 | Fan Status Indicators |

**CAUTION:**

Excessive bending can damage interface cables, especially optical cables.

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

Chapter 5

# Configuring the Appliance

To configure the appliance:

1. Provide power to the appliance. Refer Cabling the appliance.
2. You can deploy and activate your Edge devices using two main methods:
   - **Edge Auto-activation (Automatic):**

     Before the device is shipped to the end location, a central administrator can perform additional setup steps:

     a. **Create profiles:** The central administrator creates **"profiles"** to manage mass deployments of devices with similar configurations.

     b. **Assign edges:** The central administrator assigns the individual devices (referred to as "edges") to these profiles.

     c. **Non-standard configuration:** For devices that require unique settings, the administrator performs the necessary non-automatic configuration manually.

     For additional information, refer to Activate SD-WAN Edges using Edge Auto-activation.

     **Note:** The setup process for the Arista VeloCloud Edge 4100 and Edge 5100 appliances are designed to be "hands-off" and close to full zero-touch provisioning (ZTP).

   - **Email Activation (Manual):**

     This process is designed for a person at a remote office with no network administration training. The goal is to get the device activated with minimal effort. This method uses a specific link or code sent to the site contact to perform the setup:

     a. **Receives the email:** The user receives an email containing a URL.

     b. **Connect the cables:** Connect the cables to the right ports on the device. (Cabling the appliance).

     c. **Connect a laptop:** Using either Wi-Fi or a wired Ethernet cable, connect a laptop to the device. The laptop will automatically receive an IP address in the 192.168.2.* network.

     d. **Select the URL:** Open the email and select the URL, which is crafted to point to the device's default address at 192.168.2.1.

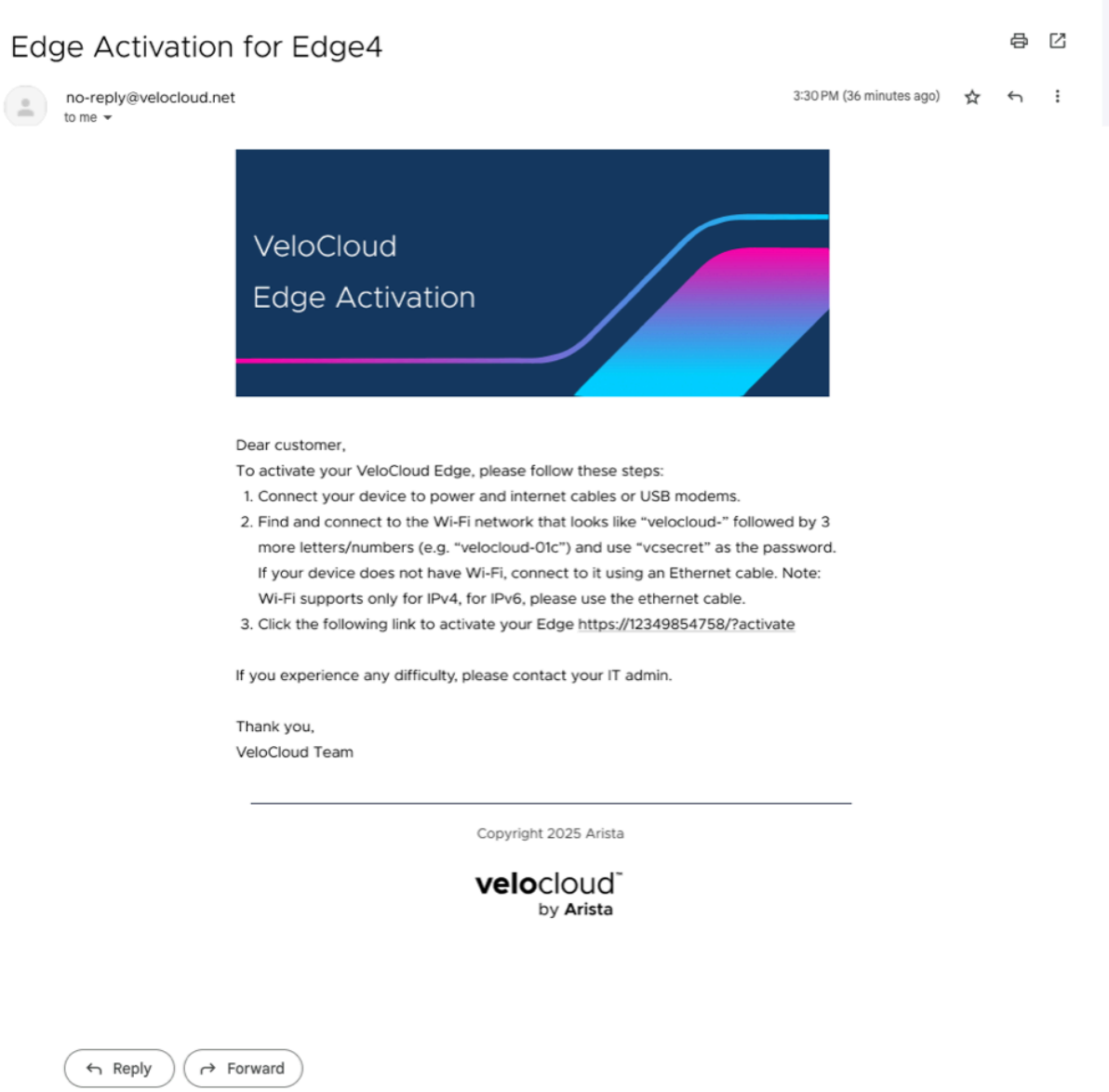
     e. **Device Activation:** The laptop connects to the device's activation endpoint and begins the activation process. You can watch the progress on the laptop screen.

     For additional information, refer to Activate Using Email.

**Important:** The device sends TCP traffic to the activation server (VCO) to receive and apply its complete configuration, which includes settings for all ports, traffic types, local networks, and VRFs.

The following image is a sample email to activate the edge appliance.

**Figure 5-1: Edge Activation Sample Email**



# Appendix A

# Status Indicators

This section discusses the following topics:



## A.1 Front Indicators

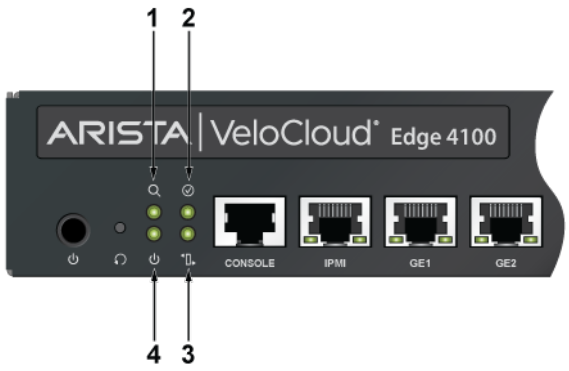
Reviews the status and port indicators of the device.

### A.1.1 Appliance Indicators

Describes the front panel LEDs for the Edge 4100 and Edge 5100 appliances.

On VeloCloud Edge 4100 appliance, the front panel LEDs are located on the far left side of the appliance front panel, just below the name panel (see image):

**Figure A-1: Edge 4100 LED Status Indicators**




| | | | |
|---|---|---|---|
| 1 | ID/Locate LED (Blue) | 2 | SW Defined LED (Inactive) |
| 3 | Alert LED (Amber) | 4 | Power LED (Green) |

**Table 5: Edge 4100 Status LEDs**

| LED Name | Color | Description | Software Controllable |
|---|---|---|---|
| Power button | Red | Power button to power up or down<br><br>Power On: LED on | No |
| | | Power Off: LED Off | |
| SW_Defined LED | Inactive | Inactive | |
| Alert LED | Amber | Behaviour linked with PEF, stays amber if there are any alert conditions detected by the sensors in the management controller (For example, PSU not working, high temperature, etc.) | Yes |
| ID or Locate LED | Blue | This is a blue LED that can be turned on and off via IPMI to quickly identifying the unit in a rack. | Yes |

**Figure A-2: Edge 5100 LED Status Indicators**


1 SW Defined LED (Inactive)
2 Alert LED (Amber)
3 ID/Locate LED (Blue)
4 Power LED (Green)

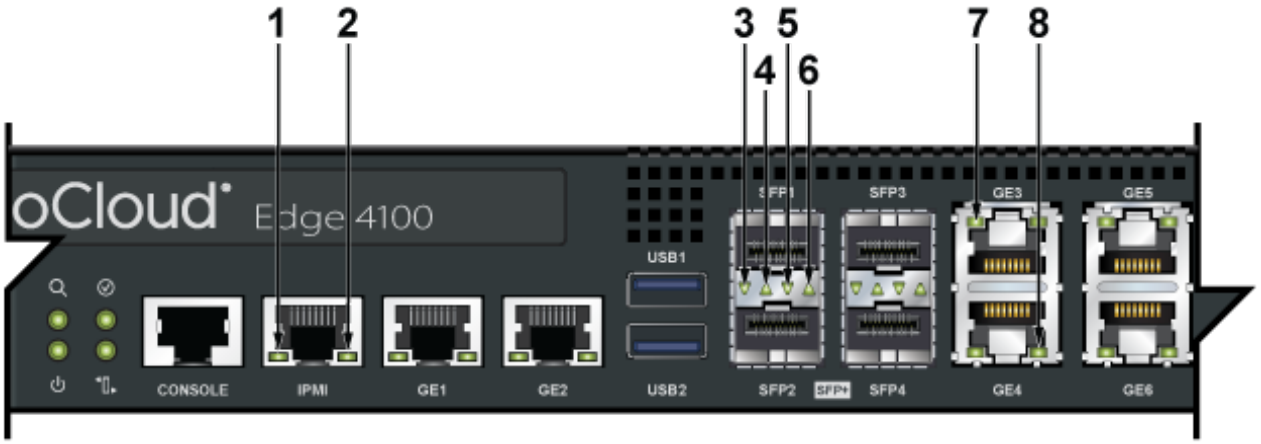
**Table 6: Edge 5100 Status LEDs**

| LED Name | Color | Description | Software Controllable |
|---|---|---|---|
| Power button | Red | Power button to power up or down<br><br>Power On: LED on | No |
| | | Power Off: LED Off | |
| SW_Defined LED | Inactive | Inactive | |
| Alert LED | Amber | Behaviour linked with PEF, stays amber if there are any alert conditions detected by the sensors in the management controller (For example, PSU not working, high temperature, etc.) | Yes |
| ID or Locate LED | Blue | This is a blue LED that can be turned on and off via IPMI to quickly identifying the unit in a rack. | Yes |

## A.1.2 Port Indicators

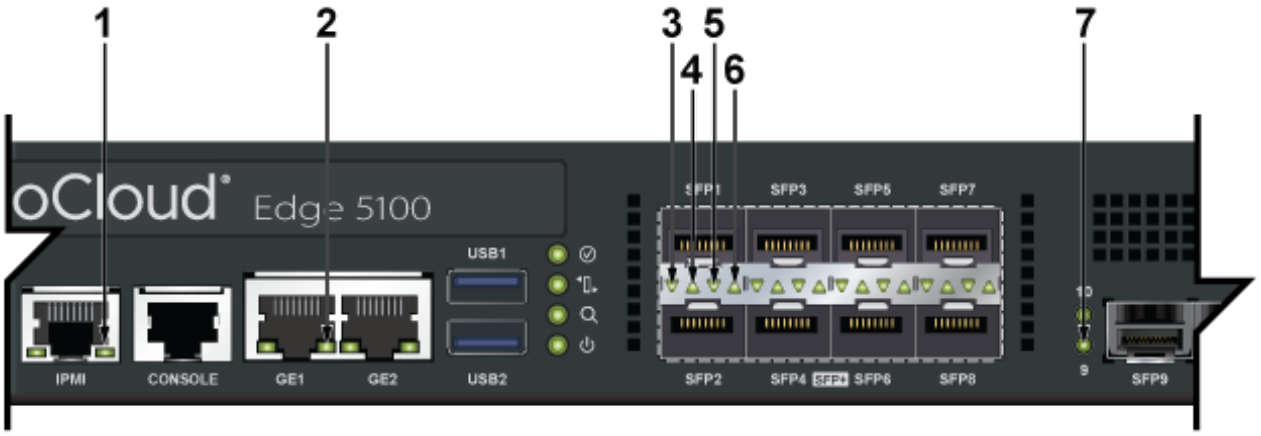
Port LEDs near their corresponding ports provide a link and operational status. The following figure displays the Port LED location on the Edge 4100 and Edge 5100 appliances.

**Figure A-3: Edge 4100 Port LEDs**




| | | | | | |
|---|---|---|---|---|---|
| 1 | IPMI Port LEDs | 2 | IPMI Port LEDs | 3 | SFP1 Port LEDs |
| 4 | SFP2 Port LEDs | 5 | SFP1 Port LEDs | 6 | SFP2 Port LEDs |
| 7 | GE3 Port LEDs | 8 | GE4 Port LEDs | | |

**Figure A-4: Edge 5100 Port LEDs**




| | | | | | |
|---|---|---|---|---|---|
| 1 | IPMI Port LEDs | 2 | GE1 Port LEDs | 3 | SFP1 Port LEDs |
| 4 | SFP1 Port LEDs | 5 | SFP2 Port LEDs | 6 | SFP2 Port LEDs |
| 7 | SFP9 Port LEDs | | | | |

The following table provides status conditions corresponding to port LED states. Port LED behavior for GE and SFP+ ports is consistent.

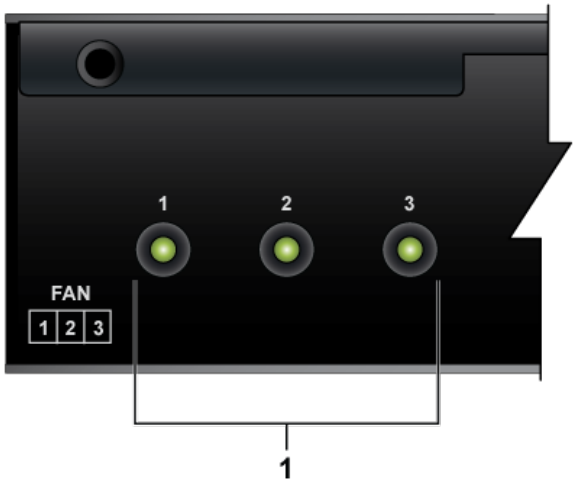
**Table 7: Port LED States (Front)**

| LED State | Status |
|---|---|
| Off | The port link is down. |
| Green | The port link is up. |
| Yellow | The port is software disabled. |
| Flashing Yellow | The port failed diagnostics. |

## A.2 Rear Status Indicators

You can access the fan and power supply modules from the rear panel. Each fan and power supply module contains an LED that reports the module status. Fan Status LEDs are on the fan modules, as displayed in images below.

**Figure A-5: Edge 4100 Fan LEDs**



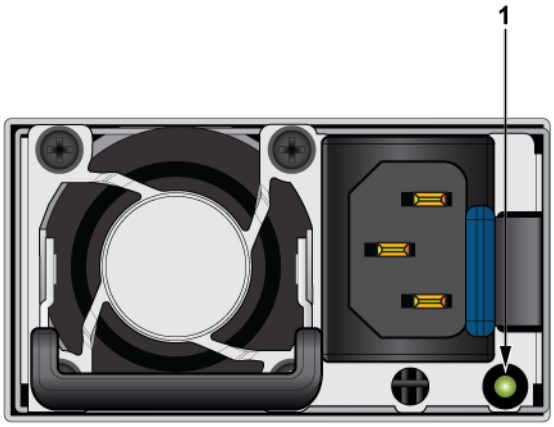

1 Fan Status LEDs

**Figure A-6: Edge 5100 Fan LED**


1 Fan Status LEDs

The AC Power Supply Status LEDs are on the power supply modules, as displayed in the Figure.

**Figure A-7: Power Supply Unit LED**




1 AC Power Supply Status LEDs

The table below provides conditions corresponding to the AC power supply status LED states and the fan status LED states.

**Table 8: Rear Status Indicators**

| Numbering | LED Name | Color | Description | Software Controllable |
|---|---|---|---|---|
| 1 | PSU LED | Green | Normal, working condition | No |
| | | Amber | AC power cord unplugged or with waring or critical events | |
| 1 | Fan LED | Green | Normal, working condition | No |
| | | Red | Fan failure | |

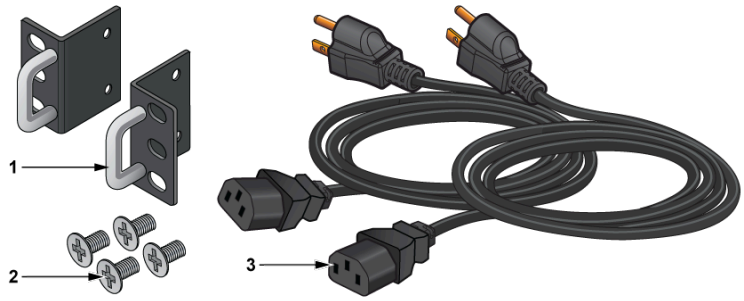
# Appendix B

# Parts List

## B.1 Accessory Kits

The images below depict the accessory kit for the VeloCloud Edge 4100 and 5100.

**Figure B-1: Accessory Kit**




| | | | | | |
|---|---|---|---|---|---|
| 1 | 2 - Ear Brackets | 2 | 4 - M4 Screws | 3 | 2 - AC power cables |

## B.2 Cables

VeloCloud Edge 4100 and 5100 comes with 2 AC Power Cables.

**Warning:**

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

警告
すべての電源コードは提供する製品で使用するためだけを目的としている。

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

# Appendix C

# Front Panel

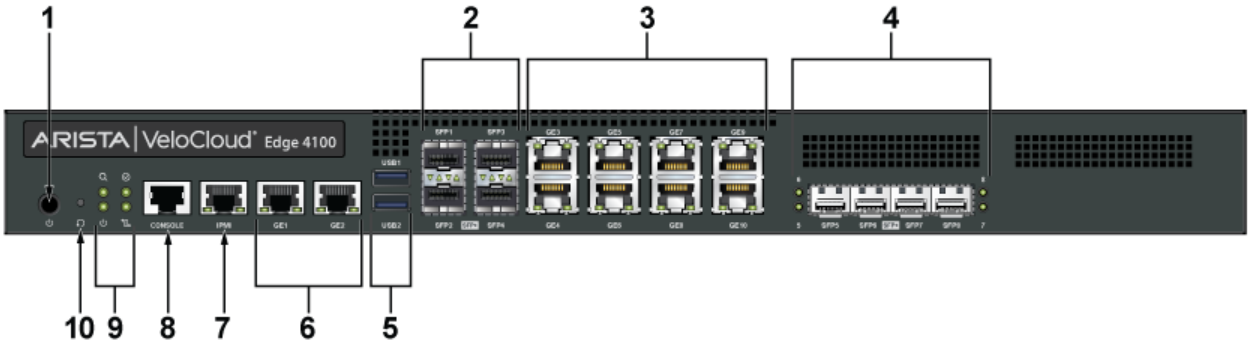
This section discusses the front panel of the VeloCloud Edge appliance.

- VeloCloud Edge-4100
- VeloCloud Edge-5100

## C.1 VeloCloud Edge-4100

The VeloCloud Edge-4100 front panel includes the following key components:

**Figure C-1: VeloCloud Edge-4100 Front Panel**

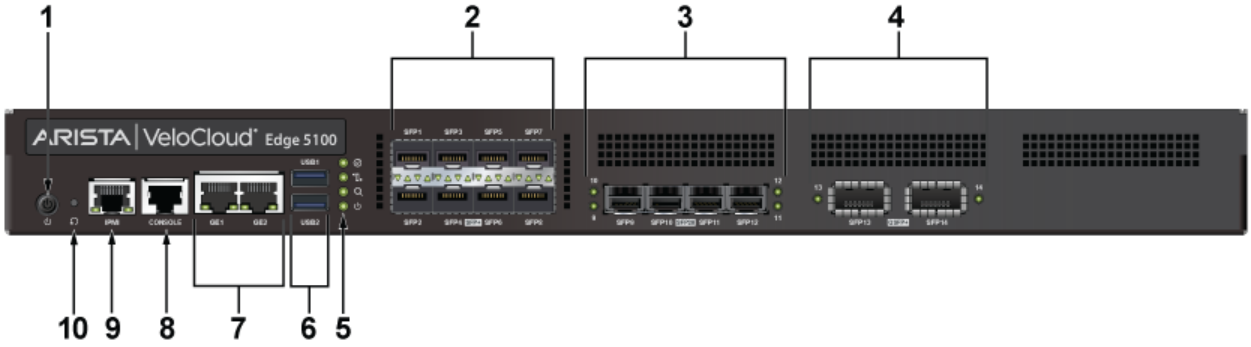



| | | | |
|---|---|---|---|
| 1 | Power Button | 6 | 2 x RJ45 Ethernet Management Ports |
| 2 | 4x10G SFP+ Ports (1-4) | 7 | IPMI Port |
| 3 | 8x1G RJ45 Ports | 8 | Console Port |
| 4 | 4x10G SFP+ Ports (5-8) | 9 | System Status LEDs |
| 5 | 2 x USB Port 3.0 | 10 | Reset Button |

## C.2 VeloCloud Edge-5100

The VeloCloud Edge-5100 front panel includes the following key components:

**Figure C-2: VeloCloud Edge-5100 Front Panel**




| | | | |
|---|---|---|---|
| 1 | Power Button | 6 | 2 x USB Port 3.0 |
| 2 | 8x10G SFP+ Ports | 7 | 2 x RJ45 Ethernet Management Ports |
| 3 | 4x25Gb SFP28 Ports | 8 | Console Port |
| 4 | 2x40G QSFP+ Ports | 9 | IPMI Port |
| 5 | System Status LEDs | 10 | Reset Button |

# Appendix D

# Rear Panel

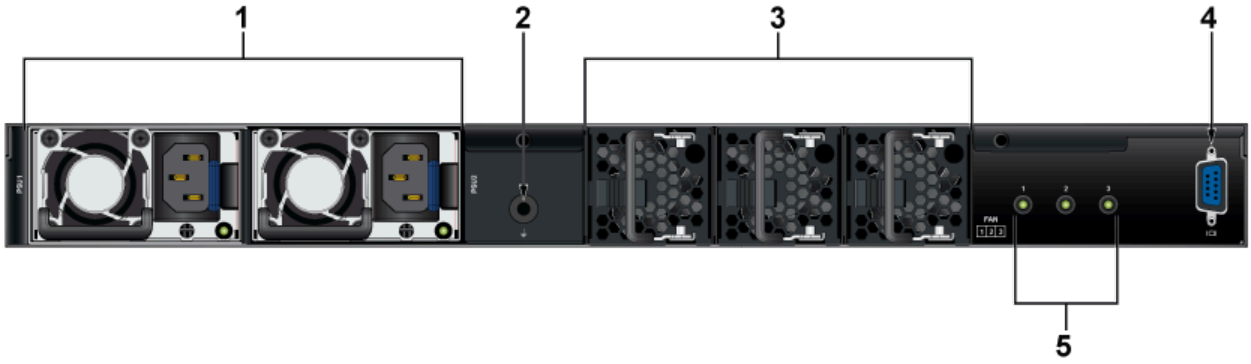
This section discusses the rear panel of the VeloCloud Edge appliance.

- VeloCloud Edge-4100
- VeloCloud Edge-5100

## D.1 VeloCloud Edge-4100

The VeloCloud Edge-4100 rear panel includes the following key components:

**Figure D-1: VeloCloud Edge-4100 Rear Panel**

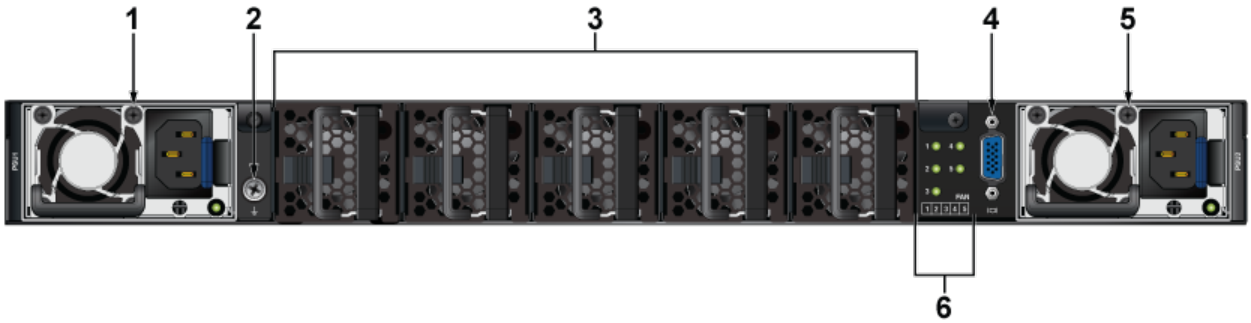



| | | | |
|---|---|---|---|
| 1 | Power Supply Unit (PSU) | 4 | VGA Port |
| 2 | Functional Grounding Point | 5 | Fan Supply LEDs |
| 3 | 3 x Fan | | |

## D.2 VeloCloud Edge-5100

The VeloCloud Edge-5100 rear panel includes the following key components:

**Figure D-2: VeloCloud Edge-5100 Rear Panel**




| | | | |
|---|---|---|---|
| 1 | Power Supply Unit 1(PSU1) | 4 | VGA Port |
| 2 | Functional Grounding Point | 5 | Power Supply Unit 2(PSU) |
| 3 | 5 x Fan | 6 | Fan Supply LEDs |

# Appendix E

# Maintenance and Field Replacement

This section discusses the process for replacing components.

## E.1 Considerations

Review the following considerations when installing the device:

- All fans and power supplies are hot-swappable.
- The appliance can be running while a power supply is being installed or removed, but the power supply being replaced must not be connected to a power source.
- Before you begin, refer to the Arista Networks document Safety Information and Translated Safety Warnings at https://www.arista.com/en/support/product-documentation.
- All slots must be filled or covered with a blank for operation (even though the power supply or fans may not be functional).
- The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.
- Do not leave this equipment in an environment where the storage temperature may go below -20° C (-4° F) or above 80° C (167° F). This could damage the equipment. The equipment should be in a controlled environment.
- Laser device modules (LDMs) (plug-in type) confirmed and complied with the following:
  1. The CDRH Laser Class emitted by the Fiber Optic Laser Module Component is Class I or 1 when installed in the end-product with the fiber-optic cable removed.
  2. The Fiber Optic Laser Module Component is CDRH certified. Laser class 1 optical transceiver shall be used only.
- Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
- Keep this equipment away from humidity.
- Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
- Never pour any liquid into an opening. This may cause fire or electrical shock.
- This set of instructions is given according to *IEC 704#1*. Arista disclaims all responsibility for the accuracy of any statements contained herein.

- The equipment is not suitable for use in locations where children are likely to be present.
- To disconnect power, remove both power cords from the unit.
- If one of the following situations arises, have the equipment checked by service personnel:
  - The power cord or plug is damaged.
  - Liquid has penetrated into the equipment.
  - The equipment has been exposed to moisture.
  - The equipment does not work well, or you cannot get it to work according to the user's manual.
  - The equipment has been dropped and damaged.
  - The equipment has obvious signs of breakage.

## E.2 Power Supplies

The following steps are required when removing and replacing power supplies from the appliance.

**Note:** The Front Panel shows the power supply locations for your device.

1. 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 to ensure that the appliance is grounded.
2. Put on an anti-static ESD wrist strap and connect it to one of the attach points on the appliance.
3. To add the new power supply, remove the power supply to be replaced (Removing a Power Supply) for the slot.

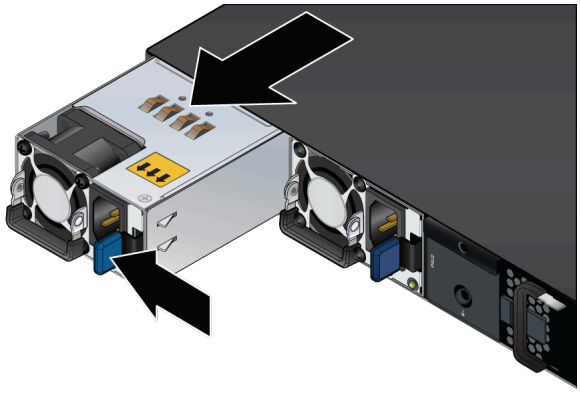
### E.2.1 Removing a Power Supply

Perform the following steps to remove an AC power supply.

1. Put on a grounded, anti-static ESD strap.
2. Power down the power supply, which will be removed by disconnecting the AC power cable.

3. Push the power supply release lever and remove the power supply.

**Figure E-1: Removing a Power Supply**

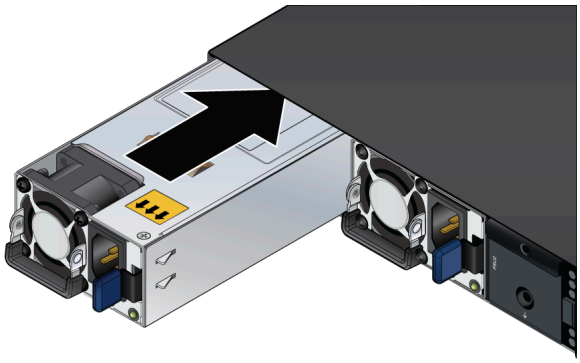


## E.2.2 Installing a Power Supply

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

1. Remove the replacement power supply from its packaging.
2. Slide the new power supply into the empty slot.
3. Slide the new power supply into the appliance until the power supply is fully seated and the release lever snaps into place. See Figure Removing a Power Supply and Installing a Power Supply.
4. Connect the power cord to the power supply.
5. Verify the LEDs on the power supply.
6. The command output will list the power supplies in operation and should include the one you replaced.

**Figure E-2: Installing a Power Supply**



# E.3 Fan Modules

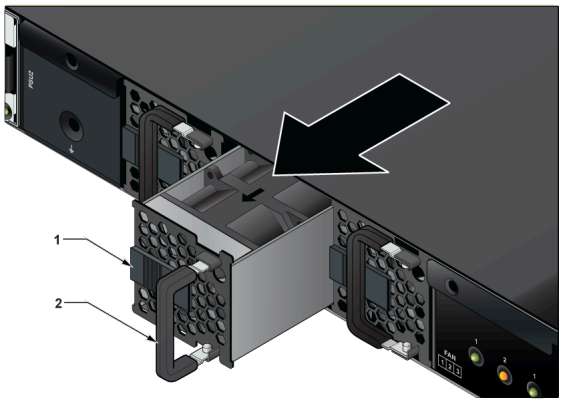
**Note:** Hot swap fans within 30 seconds to prevent the appliance from overheating. Ensure that the module you are replacing matches those already installed in the appliance.

## E.3.1 Removing a Fan Module

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

1. Put on a grounded, anti-static ESD strap.
2. Use your thumb or a screwdriver to loosen the handscrew.
3. Pull the handle to release the fan from its slot and slide the fan module out of the appliance.

**Figure E-3: Removing a Fan Module**




1 Release Lever 2 Handle

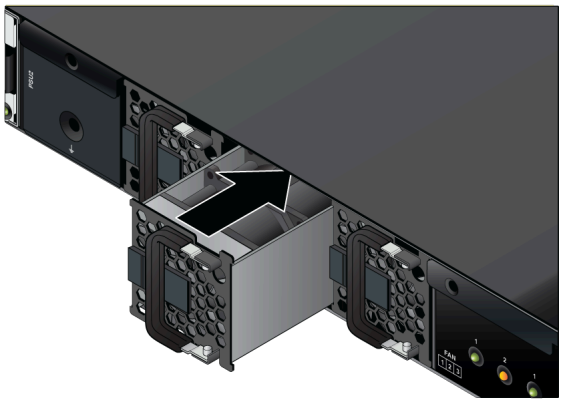
## E.3.2 Installing a Fan Module

You must make space for installing the fan module by removing an existing one (Removing a Fan Module).

1. Remove the replacement fan from its packaging.
2. Slide the new fan module into the appliance until the module is fully seated.

3. Push the ejector handle back.

**Figure E-4: Installing a Fan Module**



4. Verify that the fan module is working normally.

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

# Appendix F

# Regulatory Model Numbers

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

**Table 9: Regulatory Model Numbers and Product Numbers**

| Regulatory Model Number (RMN) | Product Number(s) |
|---|---|
| Edge 4100 | SDE-EDG-4100 |
| Edge 5100 | SDE-EDG-5100 |

# Appendix G

# Taiwan RoHS Information

This section provides the Taiwan RoHS information for appliances this guide covers. https://www.arista.com/assets/data/pdf/AristaBSMIRoHS.pdf.