

# ARISTA



## Quick Start Guide

## C-400/C-400P Access Point



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## About This Guide

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This installation guide explains how to deploy the C-400/C-400P access point (AP).



**Important:** Please read the EULA before installing the access point (AP). You can download and read the EULA from: <https://www.arista.com/en/support/product-documentation>

Installing the AP constitutes your acceptance of the terms and conditions of the EULA mentioned above.

### Intended Audience

This guide can be referred by anyone installing and configuring the access point.

### Document Overview

This guide contains the following chapters:

- [Package Content](#)
- [Access Point Overview](#)
- [Installing the Access Point](#)
- [Access Point Troubleshooting](#)



**Note:** Unless otherwise explicitly stated, all instances of the term 'server' in this document refer to the Wireless Manager.

### Product and Documentation Updates

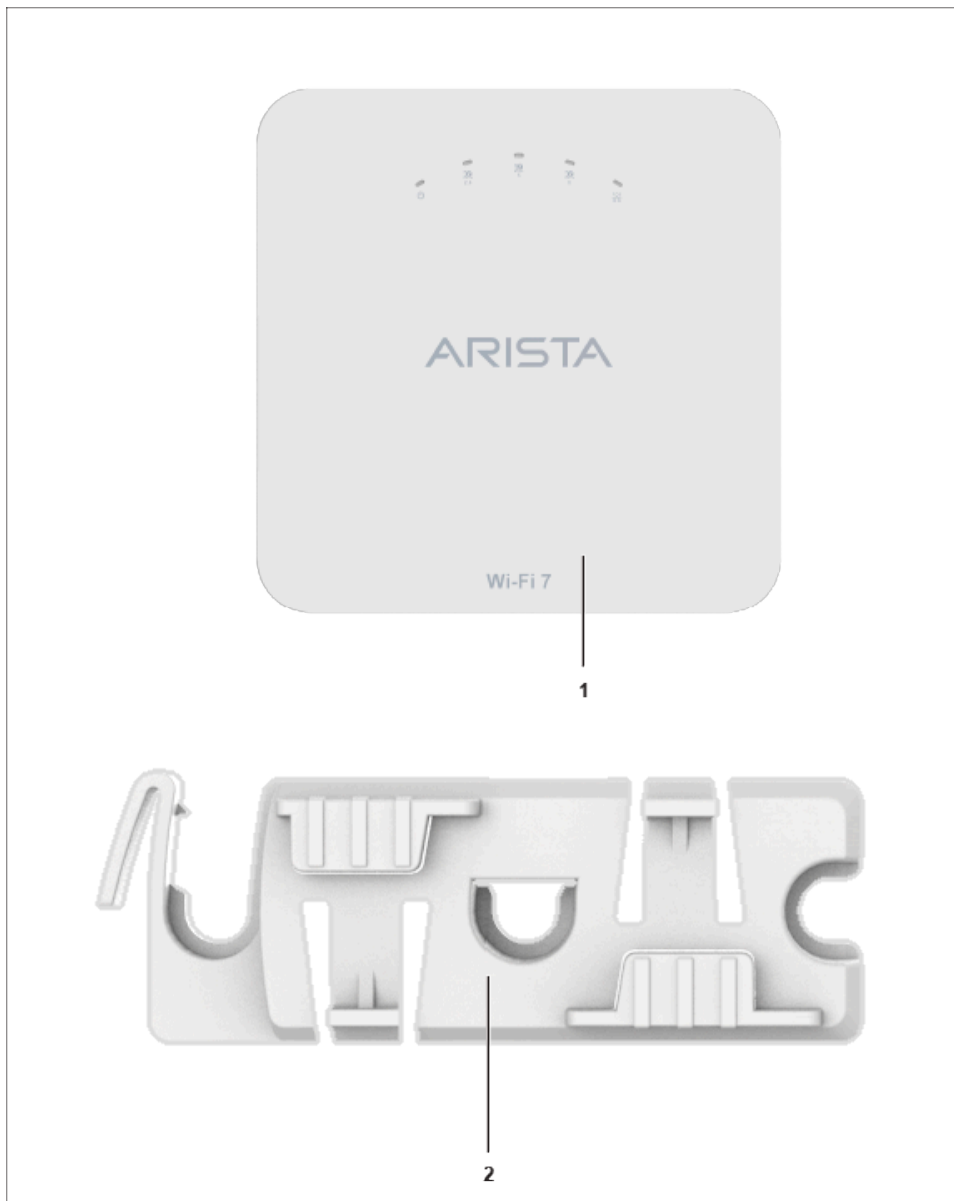
To receive important news on product updates, please visit our website at [Arista Product Documentation](#). We continuously enhance our product documentation based on customer feedback.

## Package Content

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The access point (AP) package must contain the components shown in the following figure. The difference between C-400P and C-400 is that C-400P comes with a power adapter in the package content, whereas C-400 doesn't have a power adapter included in the package content. The rest of the specifications are the same between them.

**Figure 2-1: Package Components**



**Table 1: Labels: Package Components**

Label	Description
1	C-400 or C-400P Access Point
2	15/16" (24 mm) Mounting Bracket (MNT-AP-24MM)



**Important:** Make a note of the AP MAC address and the IP address in a safe place before installing it in a hard-to-reach location. Locate the AP MAC address on a label at the bottom of the product.

The difference between C-400P and C-400 is that C-400P comes with a power adapter in the package content, whereas C-400 doesn't have a power adapter included in the package content. The rest of the specifications are the same between them.

If you don't have a complete package, please contact the Arista Networks Technical Support Team at [support-campus@arista.com](mailto:support-campus@arista.com) or return the package to the vendor or dealer where you purchased the product.

## Access Point Overview

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C-400/C-400P is a Wi-Fi 7 multi-radio 802.11be access point. Refer the [datasheet](#) for more information.



**Note:** This equipment is suitable for use in environment air spaces (plenums).

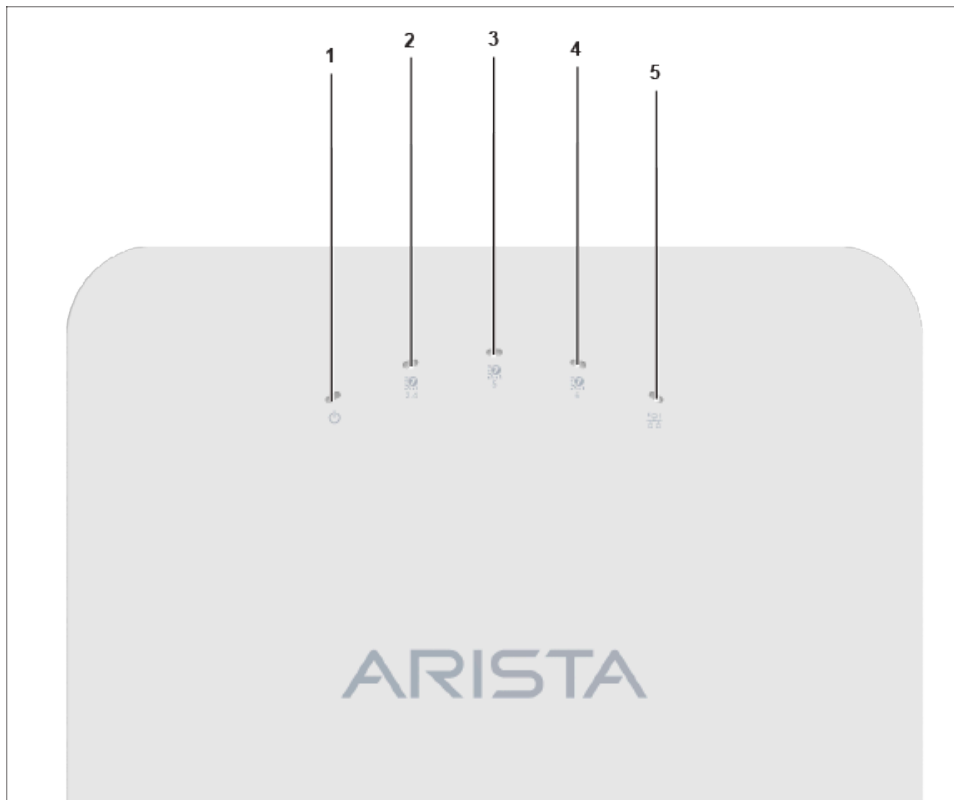
This chapter provides an overview of the access point (AP) and describes:

- [Front Panel](#)
- [Rear Panel](#)

### 3.1 Front Panel

The front panel of the AP has 6 LEDs that indicate the status of various AP functions.

**Figure 3-1: Front Panel LEDs**





**Table 2: Labels: Front Panel LEDs**

Label	Description
1	Power
2	2.4 GHz Radio
3	5 GHz Radio
4	6 GHz Radio
5	LAN1

**Power LED:** The following table describes the Power LED indicator states.

**Table 3: Power LED Indicator States Description**

	Green	Orange
<b>Solid</b>	Running at full capability	Running at reduced capability
<b>Blinking</b>	Received IP address, but not connected to the server	Did not receive an IP address

Reduced capability indicates that the AP receives less than the required maximum power from the PoE+ switch. The AP receives 802.3af instead of 802.3at.

**LAN1 LED:** ON when the corresponding interface UP.

**Radio LEDs:** ON when the corresponding radio operational.

### 3.2 Rear Panel

The rear panel of the AP has a DC power port and a 802.3at compliant PoE+ LAN port to power the AP and connect it to a wired LAN.

Figure 3-2: Rear Panel

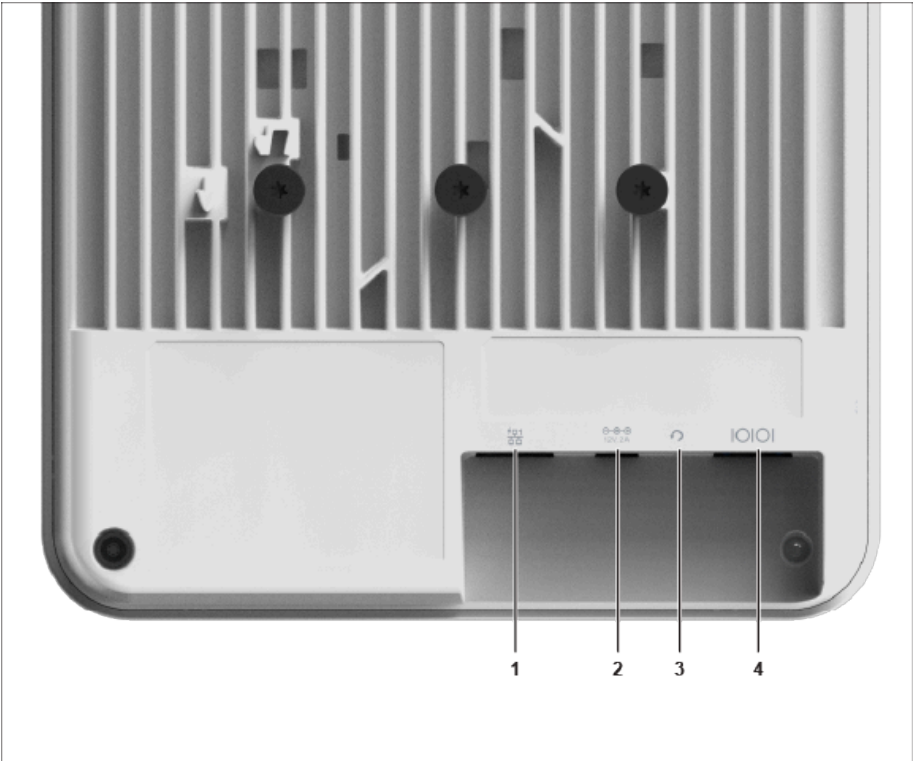


Table 4: Labels: Rear Panel

Label	Description
1	LAN1, POE+
2	DC Power
3	Reset
4	Console

**Table 5: Port Details**

Port	Description	Connector Type	Speed/Protocol
Power	12V DC/2A	5.5 mm overall diameter / 2.1 mm center pinhole	N/A
LAN 1	5 Gigabit Ethernet with 802.3at compliant PoE	RJ-45	100 /1000 Mbps / 2.5/ 5 Gbps Ethernet
Reset	Reset to factory default settings port. Hold down and power cycle the device to reset.	Pin hole push button	NA
Console	Establish a 'config shell' terminal session through a serial connection	RJ-45	NA

## Installing the Access Point

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This chapter contains the procedure to install the access point (AP).

### Zero-Configuration of the Access Point

The AP supports zero-configuration under the following conditions:

- The device must be in AP mode with background scanning on and without a configured SSID
- Set up a DNS entry for **wifi-security-server** on all the DNS servers. This entry should point to the server IP address. By default, the AP looks for the DNS entry **wifi-security-server**.
- Place the AP on a DHCP-enabled subnet.

Refer to these articles to understand how APs communicate with the server, and the ports that you need to open to enable the communication:

- [Wi-Fi Access Points-Server Communication](#)
- [TCP Ports and UDP Ports Used by Access Points](#)



**Important:** If placing the device on a network segment separated from the server by a firewall, you must first open port 3851, the port assigned to Arista Networks, for User Datagram Protocol (UDP) and Transport Control Protocol (TCP) bidirectional traffic on the firewall. Zero-configuration does not support setting up multiple devices to connect to multiple servers. In this case, you must manually configure the APs. For details on configuring an AP manually, see the [Access Point CLI Guide](#).

Assign a static IP address to the AP or change the settings to DHCP. Make a note of the AP MAC address and the IP address in a safe place before installing it in a hard-to-reach location. Locate the AP MAC address on a label at the bottom of the product.

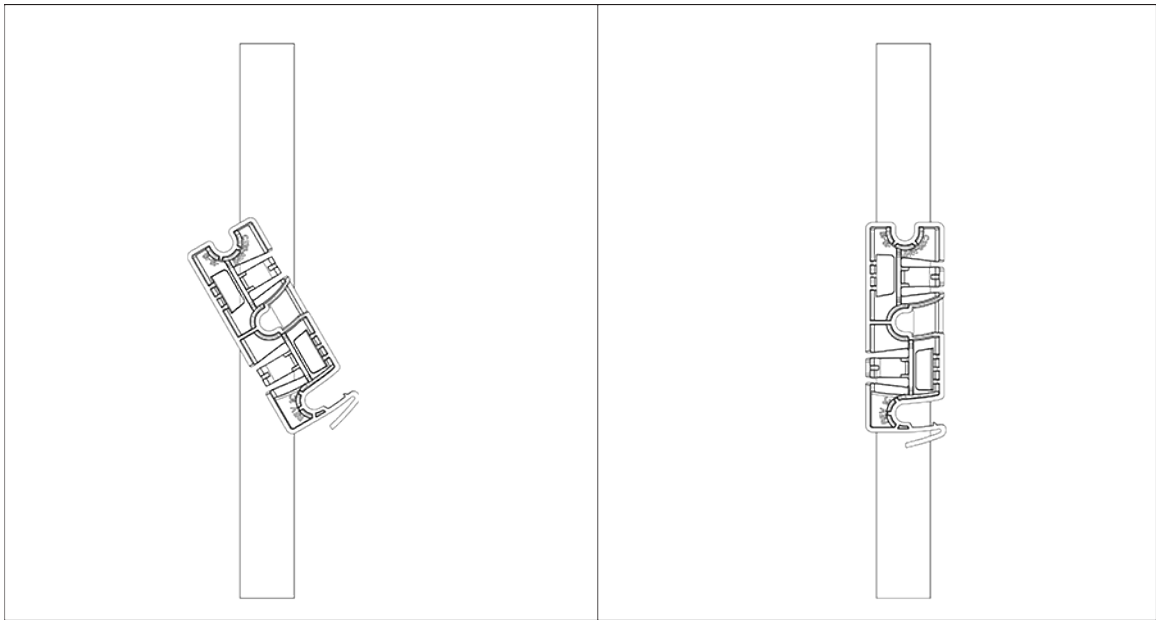
Use the following steps to install the AP with zero-configuration:

1. [Ceiling Mounting the Access Point](#) or [Wall Mount the Access Point](#)
2. [Connecting the Access Point to the Network](#)
3. [Power On the Access Point](#)

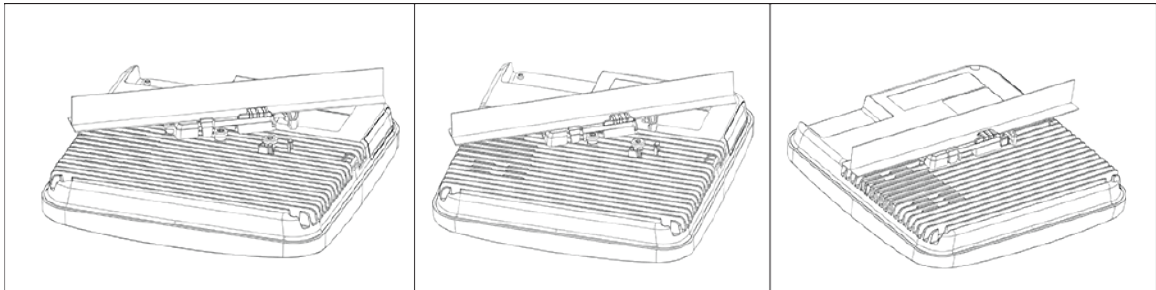
### 4.1 Ceiling Mounting the Access Point

Mounting the access point (AP) on the ceiling consists of the following steps:

1. **Attach the bracket to the T-grid** - Use the mounting bracket to install the AP on the ceiling. Attach the bracket to the T-grid and rotate the bracket so that it snaps on the T-grid. The bracket becomes parallel to an arm of the T-grid. Be sure the bracket properly snaps to the T-grid, as shown below.



- 2. Mounting the AP on the bracket** - Place the first mounting post on the back of the AP to the lower notch of the bracket. Rotate the AP so that the center mounting post fits in to the center notch on the bracket. Be sure all the mounting posts on the back of the AP snap to the respective notches on the bracket. The mounting posts now properly fit in the respective notches of the bracket and the AP mounts properly.



**Mounting Instructions using the Silhouette/Interlude Bracket Mount:** The Silhouette/Interlude mounting bracket does not ship as part of the standard package and must be procured separately. The mounting instructions for the Silhouette/Interlude Bracket Mount contain similar instructions as the Standard Package Content's mounting instructions.



**Note:** As a best practice, label the APs using MAC addresses or user your own convention. For example, use serial numbers so that you can easily identify the APs.

## 4.2 Wall Mount the Access Point



**Note:** The wall mounting accessory SKU (MNT-AP-FLAT-14CM) can be ordered and purchased separately.

For instructions on wall mounting the access point, refer to [Wall Mount the Access Point](#) article.

## Power On the Access Point

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Power on the access point (AP) by plugging one end of the Ethernet cable into the PoE+ (802.3at) switch or injector and the other end into the LAN1 PoE+ port on the AP. Be sure to turn on the PoE+ source, or use a compatible power adapter (Arista SKU: PWR-AP-W3) to power the AP. The power adapter must be connected to a socket outlet with an earthing connection.



**Note:** If not using PoE+, use only an AC power adapter supported by the AP.

### 5.1 Using the Access Point with a Power Adapter

Use a compatible power adapter (Arista SKU: PWR-AP-W3) to power the AP.

**Warning:** C-400 is intended to be supplied by approved external power source (UL listed/ IEC 60950-1/IEC 62368-1) whose output complies with ES1/SELV, PS2/LPS, output rating 12V DC, 2A minimum (for DC port) or 54V DC, 0.6A minimum (for PoE port), at an ambient temperature of 45°C, and at maximum altitude of 5000m. For any assistance, please contact your Arista representative. For C-400P, use the power adapter provided in the packaged contents.

The maximum altitude of operation for the power adapter is 5000m.

To power up the device with power adapter, perform the following steps:

1. Plug the power cable into the DC power receptacle at the rear of the AP.
2. Plug the other end of the power cable into an 110V~240V, 50/60 Hz AC power source.
3. Wait until the AP LED indicators light up. Refer to the LED Indicator status table.

## Connecting the Access Point to the Network

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To connect the AP to the network, perform the following steps:

1. Install the AP on a network with a DHCP-enabled server.
2. Set up a DNS entry for **wifi-security-server** on all DNS servers. This entry should point to the server IP address. By default, the AP looks for the DNS entry, **wifi-security-server**.
3. Verify the AP LED indicators as ON with green LEDs, indicating an operational AP connected to the server
4. Log on to the server using SSH and run the `get sensor list` command.

The command returns a list of all Arista devices recognized by the server. Single Sign-On users can go to the **Monitor** tab in CloudVision CUE and check if the device appears on the **Access Points** tab.



**Note:** If zero configuration fails, the AP must be configured manually.



**Important:** If you do not have DHCP enabled on a subnet, the AP cannot connect to that subnet with zero configuration. If the DNS entry does not exist on the DNS servers or you do not have the DHCP server running on the subnet, you must manually configure the device. For details on configuring an AP manually, see the [Access Point CLI Guide](#).

### 6.1 Connecting the Access Point using PoE

If using a PoE injector, plug the data connection into a suitable switch port with proper network connectivity.

For PoE port details, see the [Rear Panel](#) section.

## Access Point Troubleshooting

The table below lists some of the troubleshooting guidelines for the access point (AP).

Problem	Solution
The AP did not receive a valid IP address via the DHCP.	Be sure that the DHCP server is on and available on the VLAN/subnet connected to the AP. If the AP fails to get a valid IP address, you can reboot it to see if that resolves the problem.
Unable to connect to the server.	<ul style="list-style-type: none"> <li>• Be sure you have an active server and reachable from the network connected to the AP. If a firewall or a router has Access Control Lists (ACLs) enabled between the AP and the server, allow traffic on UDP port 3851.</li> <li>• Use the IP-based server discovery method and be sure you have correctly entered the DNS name, <b>wifi-security-server</b>, on the DNS server.</li> <li>• Be sure the DNS server has correctly configured IP addresses or provided by the DHCP server.</li> <li>• The AP might fail to authenticate with the server. In this case, an 'Authentication failed' event logs to the server. Refer to the event for recommended action.</li> </ul>
The AP has encountered a problem.	<ul style="list-style-type: none"> <li>• If using Arista Cloud Services, then open the TCP port 443 (SSL). If you have an on-premises installation, then open UDP port 3851 and TCP 443.</li> <li>• If using a Proxy, Web Accelerator, or URL Content Filter between the AP and the Internet, ensure that the settings allow communication between the AP and Arista Cloud Services. For more information, see <a href="#">Wi-Fi Access Points Server Communication Workflow</a>.</li> <li>• If your configuration requires you to specify an exact IP address or IP range for Arista Cloud Services, please contact <a href="mailto:support-campus@arista.com">support-campus@arista.com</a></li> </ul>



### Appendix A: AP-Server Mutual Authentication

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The AP-server communication begins with a mutual authentication step where the AP and server authenticate each other using a shared secret. The AP-server communication takes place only if this authentication succeeds.

After the authentication succeeds, the server generates a session key and encrypts all communication between the AP and server using the session key.

The AP and server ship with the same default value for the shared secret. Use the CLI commands on the server and the AP to change the shared secret.



**Note:** After changing the shared secret (communication key) on the server, all APs connected to the server automatically use the new communication key. You must manually configure the new communication key on an AP if not connected to the server when the key changes on the server.

For more information on the AP-server communication process, see the [Wi-Fi Access Point Server Communication Workflow](#) article.

## Appendix B: Product Compliance

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Singapore IMDA Registration Mark



# AP-400 Product Compliance Information

**FCC Compliance** This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

**2.1 OPERATING REQUIREMENTS AND CONDITIONS** The design of Device complies with U.S. Federal Communications Commission (FCC) guidelines respecting safety levels of radio frequency (RF) exposure for Mobile devices.

**2.2 RF Radiation Exposure Statement** This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.

**2.3 FCC PART 15 STATEMENT § 15.105 (Class B digital device)** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: —Reorient or relocate the receiving antenna. —Increase the separation between the equipment and receiver. —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. —Consult the dealer or an experienced radio/TV technician for help.

**FCC CAUTION STATEMENT FOR MODIFICATIONS CAUTION:** Any changes or modifications not expressly approved by Arista could void the user's authority to operate the equipment.

**IC Caution:** This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

**RF exposure statement:** The equipment complies with IC Radiation exposure limit set forth for uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. 5150-5250MHz is for indoor use only.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : 1. L'appareil ne doit pas produire de brouillage; 2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

**Déclaration d'exposition RF:** L'équipement est conforme à la limite d'exposition aux radiations de la IC établie pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.