ARISTA C-460 WiFi 7 Wireless Access Point User Manual

Contents

ARISTA C-460 WiFi 7 Wireless Access Point

Specifications

- **Model:** C-460
- **Wireless Standard:** 802.11be
- **Mounting Options:** Ceiling Mount, Wall Mount
- **Power Source:** Power Adapter, PoE

Product Information

- This installation guide provides instructions on deploying the C-460 access point (AP). It is important to read the End User License Agreement (EULA) before installing the AP. The EULA can be downloaded from here.
- The access point package should contain the following components:
  - C-460 Access Point
  - Mounting Bracket (MNT-AP-24MM)
- **Note:** The MAC address of the AP is printed on a label at the bottom of the product and packaging box. Record the MAC address before mounting the AP.
- The C-460 is a multi-radio 802.11be access point suitable for use in air spaces (plenums). For more detailed information, refer to the datasheet.

Product Usage Instructions

- Follow the instructions provided in the installation guide to properly install the access point.
- For ceiling mounting, refer to section 9 of the guide for detailed instructions.
- If wall mounting, refer to section 9 of the guide for detailed instructions.
- Power the access point using either the provided power adapter or PoE according to the instructions in section 10 of the guide.
- Connect the access point to the network using either a network cable or PoE as explained in sections 10 and 11 of the guide.
- If you encounter any issues with the access point, refer to section 11 of the guide for troubleshooting steps.

FAQ

- **Q:** Where can I find the MAC address of the access point?
- **A:** The MAC address is printed on a label at the bottom of the product and packaging box. Make sure to note it down before mounting.
- **Q:** What type of environment is the C-460 access point suitable for?
- **A:** The C-460 is suitable for use in air spaces (plenums).

About This Guide

- This installation guide explains how to deploy the C-460 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 who wants to install and configure the access point.

Note: All instances of the term ‘server’ in this document refer to the Wireless Manager unless the server name or type is explicitly stated.

Product and Documentation Updates

- To receive important news on product updates, please visit our website at **https://www.arista.com/en/support/productdocumentation**.
- We continuously enhance our product documentation based on customer feedback
- This equipment conforms to the requirements of the NCC.

Package Content

- The access point (AP) package must contain the components shown in the following figure.

Figure 1: Package Components

Table 1: Labels: Package Components

Label	Description
1	C-460 Access Point
2	15/16″ (24 mm) Mounting Bracket (MNT-AP-24MM)

Important: The MAC address of the AP is printed on a label at the bottom of the product and the packaging box. Note down the MAC address before mounting the AP on the ceiling or at a location that is difficult to access.
If the package is not complete, please contact the Arista Networks Technical Support Team at supportcampus@arista.com or return the package to the vendor or dealer where you purchased the product.

Access Point Overview

- C-460 is a 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

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

Figure 2: 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
6	LAN2

Power LED: The following table describes the Power LED states.
Table 3: Power LED States Description

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

Reduced capability indicates that the AP is getting lower than the required maximum power from the PoE++ switch.
It means the AP is getting 802.3at instead of 802.3bt.

- **LAN1 LED:** ON when the corresponding interface is up.
- **LAN2 LED:** ON when the corresponding interface is up and either wired guest or link aggregation is configured.
- **Radio LEDs:** ON when the corresponding radio is operational.

Rear Panel
The rear panel of the AP has its DC power port and 802.3bt compliant PoE++ LAN ports to power the device and connect it to a wired LAN.

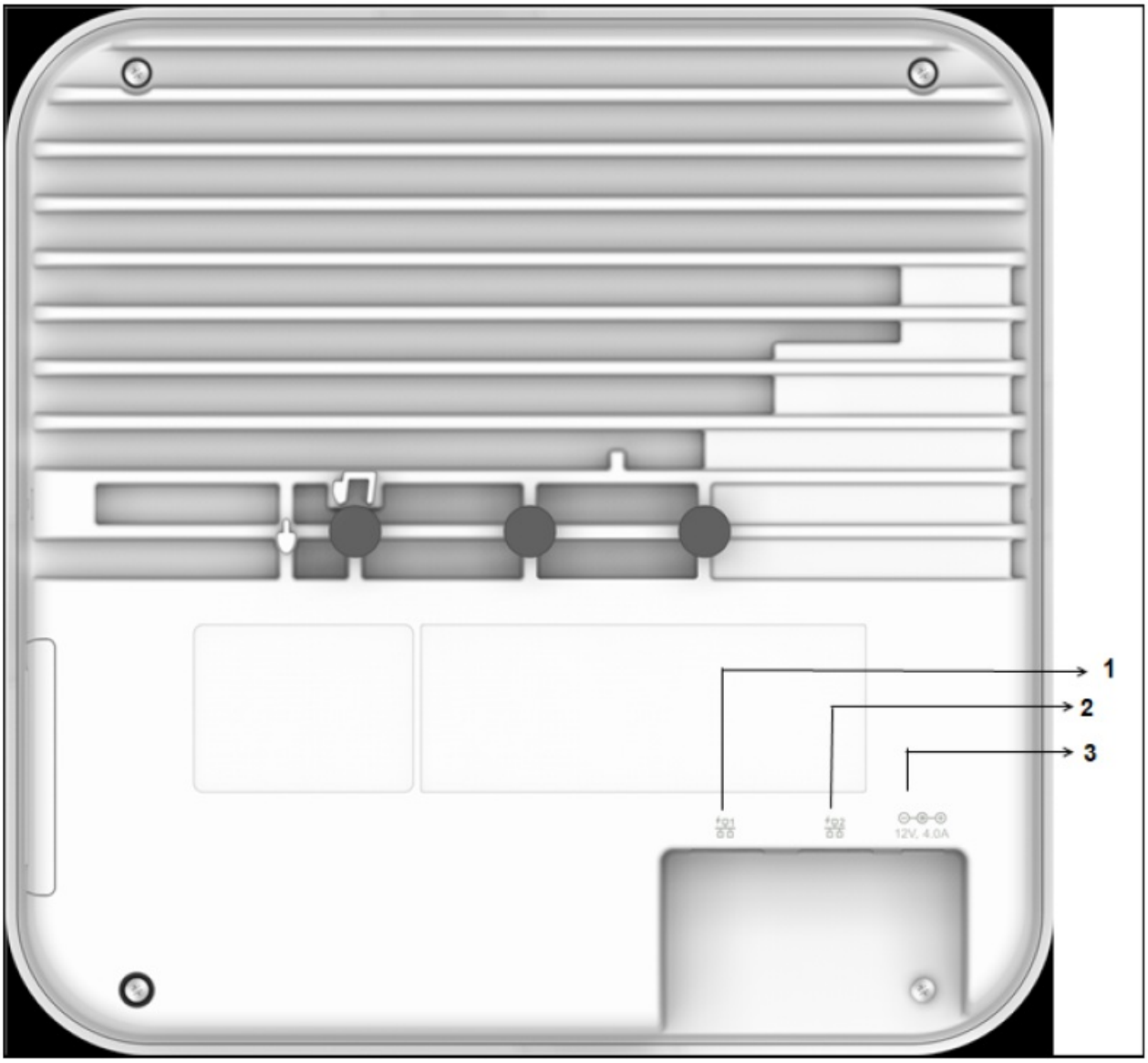


Figure 3: Rear Panel

Table 4: Labels: Rear Panel

Label	Description
1	LAN1, POE++
2	LAN2, POE++
3	DC Power

Table 5: Port Details

Port	Description	Connector Type	Speed/Protocol
Power	12V DC/4.0A	5.5 mm overall diameter / 2.1 mm center pinhole	N/A
LAN 1	10 Gigabit Ethernet with 802.3bt compliant PoE	RJ-45	11.5/8.6/1.4 Gbps Ethernet
LAN 2	10 Gigabit Ethernet with 802.3bt compliant PoE	RJ-45	11.5/8.6/1.4 Gbps Ethernet

Side Panel
The side panel of the AP has a reset pinhole, USB port, and console port.

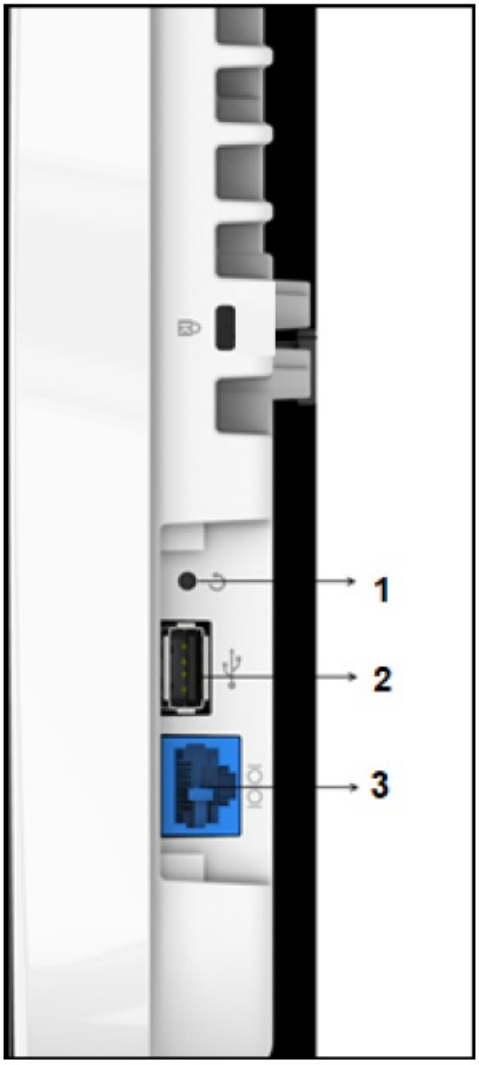


Figure 4: Side Panel

Table 6: Labels: Side Panel

Label	Description
1	Reset
2	USB
3	Console

Port	Description	Connector Type	Speed/Protocol
Console	Establish a ‘config shell’ terminal session via serial connection	RJ-45	• RS 232 Serial (115200 bits per second) • Data bits:8; Stop bits: 1 • Parity: None • Flow Control: None
USB	USB 2.0 port with a power output rating of 5V/0.3A (1.5W).	USB	Future Use
Reset	Reset to factory default settings port. Hold down and power cycle the device to reset.	Pinhole push button	N/A

When you reset the AP, the following settings are reset:

- Config shell password is reset to config.
- Server discovery value is erased and changed to the default, redirector.online.spectraguard.net (primary) and wifi-security-server (secondary).
- All the VLAN configurations are lost.
- If a static IP is configured on the AP, the IP address is erased and DHCP mode is set. The factory default IP address of the AP is 169.254.11.74.

Install the Access Point

This chapter contains the stepwise procedure to install the access point (AP).
Zero-Configuration of the Access Point

Zero-configuration is supported under the following conditions:

- The device is in AP mode with background scanning on and no SSID configured.
- A DNS entry wifi-security-server is set up on all the DNS servers. This entry should point to the IP address of the server. By default, the AP looks for the DNS entry wifi-security-server.
- The AP is on a subnet that is DHCP-enabled.

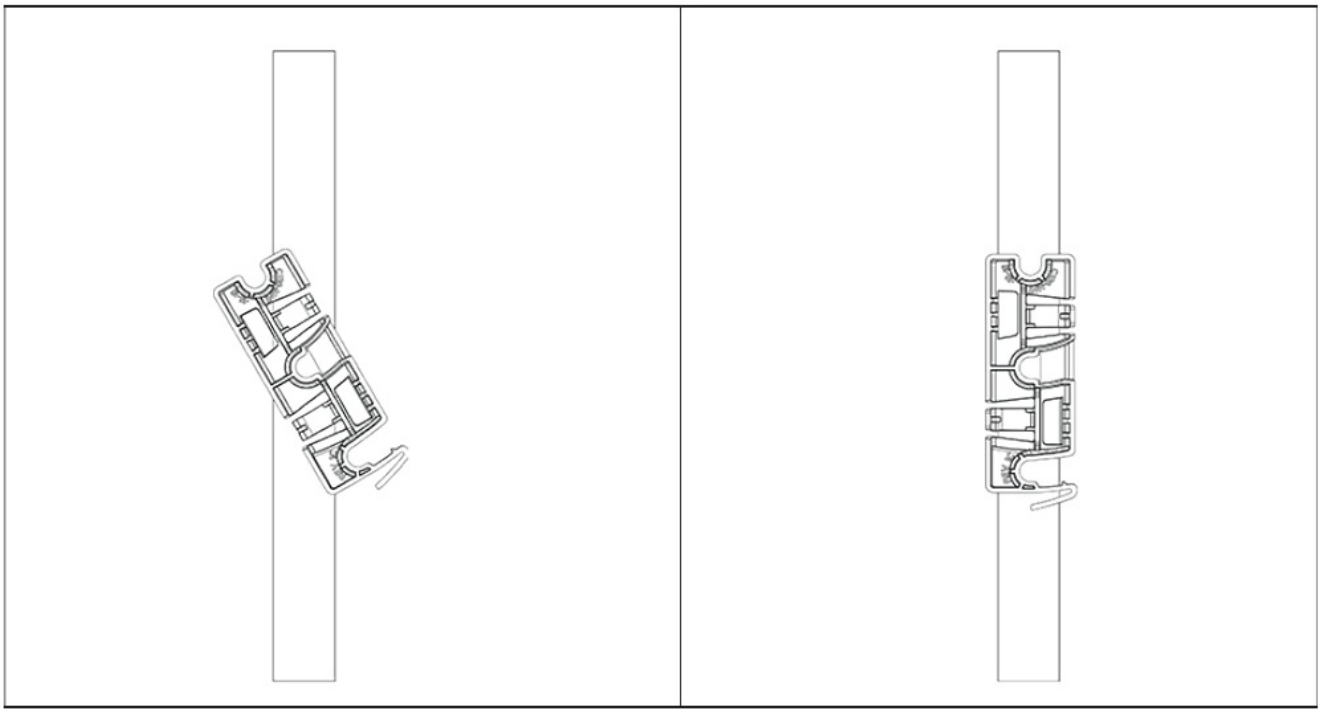
Important: If the AP is on a network segment that is separated from the server by a firewall, you must first open port 3851 for bidirectional User Datagram Protocol (UDP) and Transport Control Protocol (TCP) traffic on that firewall. This port number is assigned to Arista Networks. Zero-configuration cannot work if multiple APs are set up to connect to multiple servers. In this case, the APs must be configured manually. For details on how to configure an AP manually, see the Access Point Configuration Guide on our website at **https://www.arista.com/en/support/product-documentation**.

Take a configured AP; that is, ensure that a static IP is assigned to the AP or the settings have been changed for DHCP. Note the MAC address and the IP address of the AP in a safe place before it is installed in a hard-to-reach location. The MAC address of the AP is printed on a label at the bottom of the product.
The steps to install the AP with no configuration (zero-configuration) are as follows:

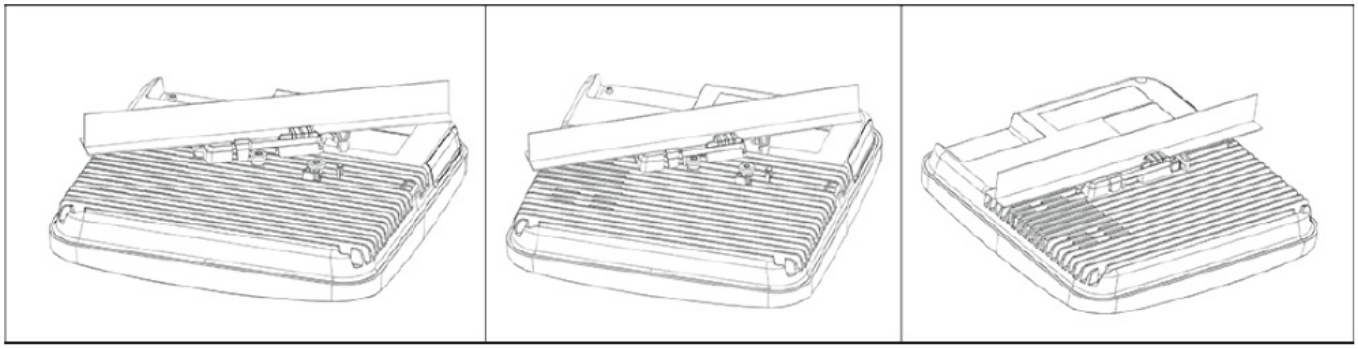
Ceiling Mount the Access Point

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

1. **Affix the bracket to the T-grid:** Use the mounting bracket to install the AP on the ceiling. Fix the bracket to the T-grid and rotate the bracket so that it snaps on the T-grid. The bracket is now parallel to an arm of the T-grid. Ensure that the bracket is properly snapped to the T-grid, as shown below.



2. **Mounting the AP on the bracket:** Place the first mounting post on the rear side of the AP onto the lower notch of the bracket. Rotate the AP such that the centre mounting post fits into the centre notch on the bracket. Ensure that all the mounting posts on the rear side of the AP are snapped into the respective notches on the bracket. The mounting posts now properly fit in the respective notches of the bracket and the AP is mounted properly.



Mounting Instructions using the Silhouette/Interlude Bracket Mount: The Silhouette/Interlude mounting bracket is not a part of the standard package and must be procured separately. The mounting instructions for the Silhouette/Interlude Bracket Mount are similar to the Standard Package Content's mounting instructions.
Note: As a best practice, label the APs using MAC addresses or user your convention. For example, use serial numbers so that you can easily identify the APs.

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 the Access Point On

You can power the access point (AP) on by plugging one end of the Ethernet cable into the PoE++ switch or injector and the other end into the Ethernet/PoE++ port on the AP. Ensure the PoE ++ source you are using is turned on.
As an alternative to PoE++, you can insert a compatible power adaptor plug into an AC power outlet and the other end into the power input port on the AP.
Note: If you are not using PoE++, ensure that you use only an AC power adaptor supported by the AP.

Using the Access Point with Power Adapter
Use a compatible power adapter (Arista SKU: PWR-AP-W5) to power the AP.
Warning: The C-460 AP is intended to be supplied with a UL-listed PoE power source suitable for use at 45ºC. The power output should meet LPS requirements or PS2, with a rating of 48V DC (1A minimum). The current supplied by PoE++ should be 850mA. If you are not using PoE++, ensure that you use only an AC power adapter supported by the AP. The power adapter should be suitable for use at 45ºC. This product is intended to be supplied by a Listed Direct Plug-In Power Unit marked as Class 2, Listed Power Adapter, or DC power source marked L.P.S. (or Limited Power Source) and rated from 12 V DC, 4A minimum.
The power source must be placed at an altitude of 5000m
To power up the device with a 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 a 110V~240V 50/60 Hz AC power source.
3. Wait until the AP is ready. Refer to the LED status table.

Connect the Access Point to the Network

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

1. Ensure that a DHCP server is available on the network to enable network configuration of the AP.
2. Add the DNS entry wifi-security-server on all DNS servers. This entry must point to the IP address of the server.
3. Ensure that DHCP is running on the subnet to which the AP is connected.

4. Check the LEDs on the AP to ensure that it is connected to the server.
5. Log on to the server using ssh and run the get sensor list command.

You will see a list of all Arista devices that are recognized by the server. Single Sign-On users can go to the Monitor tab in CloudVision Cognitive Unified Edge and check whether the access point is visible under the Monitor tab.
Note: If zero configuration fails, the AP must be configured manually.
Important: If DHCP is not enabled on a subnet, the AP cannot connect to that subnet with zero configuration.
If the DNS entry is not present on the DNS servers, or if you do not have the DHCP server running on the subnet, you must manually configure the AP. For details on configuring an AP manually, see the Access Point Configuration guide on our website at **https://www.arista.com/en/support/productdocumentation**.

Connect the Access Point using PoE
If you are using a PoE injector, make sure the data connection is plugged into a suitable switch port with proper network connectivity.

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.	Ensure that the DHCP server is on and available on the VLAN/subnet to which the AP is connected. If the AP still fails to get a valid IP address, you can reboot it to see if the problem is resolved.
Unable to connect to the server.	• Ensure that the server is running and is reachable from the network to which the AP is connected. If a firewall or a router has Access Control Lists (ACLs) enabled between the AP and the server, ensure that traffic on UDP port 3851 is allowed. • Use the IP-based server discovery method and ensure that you have correctly entered the DNS name, **wifi- security-server**, on the DNS server. • Ensure that the DNS server IP addresses are either correctly configured, or are provided by the DHCP server. • The AP might fail to authenticate with the server. In this case, an 'Authentication failed ' event is raised on the server. Refer to the event for recommended action.
The AP has encountered a problem.	• If you are using Arista Cloud Services, then open the TCP port 443 (SSL). If you have an on-premises installation, then open UDP port 3851 and port 80. • If you are 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. • If your configuration requires you to specify an exact IP address or IP range for Arista Cloud Services, please contact **support-campus@arista.com.**

Documents / Resources

C-460	**ARISTA C-460 WiFi 7 Wireless Access Point** [pdf] User Manual C-460, TOR-C460, C-460 WiFi 7 Wireless Access Point, C-460 Wireless Access Point, WiFi 7 Wireless Access Point, Wireless Access Point, WiFi 7

References

- **User Manual**