

ARISTA

Quick Start Guide C-130E Access Point

Arista Networks
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Chapter 1. About this Guide

This installation guide explains how to deploy the C-130E access point (AP).

 **Important:** Please read the EULA before installing C-130E. 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 in this document.

Intended Audience

This guide can be referred by anyone who wants to install and configure the C-130E access point.

Document Overview

This guide contains the following chapters:

- [Package Content \(page 4\)](#)
- [C-130E Overview \(page 5\)](#)
- [Install the C-130E \(page 7\)](#)
- [C-130E Troubleshooting \(page 11\)](#)



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/product-documentation> . We continuously enhance our product documentation based on customer feedback.

Chapter 2. Package Content

The C-130E package must contain the following components:



! **Important:** The MAC address of the device is printed on a label at the bottom of the product and the packaging box. Note down the MAC address, before mounting the device on the ceiling or at a location that is difficult to access.

If the package is not complete, please contact Arista Networks Technical Support Team at support-wifi@arista.com, or return the package to the vendor or dealer where you purchased the product.

Chapter 3. C-130E Overview

C-130E is a 4x4 802.11a/b/g/n/ac access point with three radios.

This chapter provides an overview of the C-130E and describes:

- [Front Panel of C-130E \(page 5\)](#)
- [Rear Panel Ports on C-130E \(page 5\)](#)
- [Top Side Ports on C-130E \(page 6\)](#)

Front Panel of C-130E

The front panel of the C-130E has 4 functional LEDs that indicate the working of the device.



The following table indicates the device states based on the LEDs.

LED Status			What does it mean?
Power/Ethernet	Wi-Fi 2.4GHz	Wi-Fi 5GHz	
Solid Orange	Any	Any	The AP does not have an active Ethernet link.
Fast Blink Green	Any	Any	The AP did not receive a valid IP address via DHCP.
Slow Blink Green	Any	Any	The AP is unable to connect to the Wireless Manager.
Slow Blink Orange	Any	Any	The AP is being upgraded

For basic troubleshooting of the issues based on the LED status, refer to the [C-130E Troubleshooting \(page 11\)](#) section.

Rear Panel of C-130E

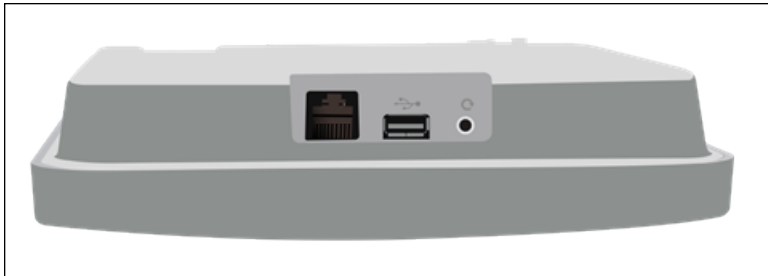
The rear panel of the C-130E provides an PoE+ Ethernet port that enables you to connect the device to a wired LAN through a switch or a hub and power the device by using the 802.3af/802.3at standard.



Port	Description	Connector Type	Speed/Protocol
DC IN	Enables you to connect to and power on device using 12V DC power with 2.0 ampere.	6.3 mm barrel	--
Ethernet (LAN2)	Gigabit Ethernet port that can be used for wired extension for an SSID.	RJ45	10/100/1000 Mbps Gigabit Ethernet
Ethernet (LAN1/PoE+)	Gigabit Ethernet port used to connect to the wired LAN and communicate with the Mojo Cloud or Server. This port can also be used to power the device using the 802.3af Power over Ethernet (PoE+) standard.	RJ45	<ul style="list-style-type: none"> 10/100/1000 Mbps Gigabit Ethernet 802.3af/80 Class 0 PoE/PoE+ PoE input voltage: 48V If using PoE (802.3af) some features will be disabled

Top Side Ports on C-130E

Describes the supported AC power supplies and lists the power cables you can use to connect the supply to a power source.



Port	Description	Connector Type	Speed/Protocol
Ethernet	To establish 'Config Shell' terminal session via serial connection.	RJ45	<ul style="list-style-type: none"> RS 232 Serial Bits per second: 115200 Data Bits: 8, Stop Bits: 1 Parity: None Flow Control: None
USB	USB 2.0 port	Not in use	Not in use
Reset Pinhole	Reset to factory default settings	Pin hole push button	Hold down and power cycle the device to reset

The Reset Pin Hole and the USB port are on the top side of the device as shown in the figure above. The Reset Pinhole resets the C-130E device to factory defaults. To reset the device, press and hold the Reset Pin Hole for 10 sec until all LEDs go off which indicates that the device has rebooted. Pressing the Reset Pin Hole while the device is booting up will not have any effect. You should perform this operation only when the device is running.

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

- Config shell password is reset to config .
- Server discovery value is erased and changed to the default, **wifi-security-server** .
- All the VLAN configurations are lost.
- If static IP is configured on the device, the IP address is erased and DHCP mode is set. If DHCP fails the factory default IP address of the device is set to 169.254.11.74.

The USB port on the C-130E is currently not in use.


Chapter 4. Install the C-130E

This chapter contains the step wise procedure to install the C-130E device.

Zero-Configuration of C-130E as Access Point

Zero-configuration is supported only if you meet the following prerequisites:

- Ethernet network with Internet connection.
- AC power outlet or network port with Power over Ethernet (IEEE 802.3af/802.3at).
- AP with valid IP address from DHCP server or a valid static IP address to communicate with Wireless Manager.
- DNS should be able to resolve the server discovery (primary: **redirector.online.spectranguard.net**, secondary: **wifi-security-server**).
- Firewall rules should allow UDP 3851 and TCP port 443 (proxy connection) from AP to Arista Cloud for AP server connectivity and TCP port 80 and 443 from AP to Arista Cloud for AP firmware upgrade.

 **Important:** If the device is placed on a network segment that is separated from the server by a firewall, you must first open port 3851 for User Datagram Protocol (UDP) and Transport Control Protocol (TCP) bidirectional traffic on that firewall. This port number is assigned to Arista Networks. If multiple devices are set up to connect to multiple servers, zero-configuration is not possible. In this case, you must manually configure the APs. See the Access Point Configuration Guide on our website at <https://www.arista.com/en/support/product-documentation>.

Take a configured C-130E, that is, ensure that a static IP is assigned to the device or the settings have been changed for DHCP. Note down the MAC address and the IP address of the device in a safe place before it is installed in a hard-to-reach location. The MAC address of the device is printed on a label at the bottom of the product.


The steps to install the device are as follows:

- [Mount the C-130E \(page 7\)](#)
- [Power on the C-130E. \(page 9\)](#)
- [Connect C-130E to the network. \(page 10\)](#)

Mount the C-130E

The steps to mount the C-130E involve:

- Mounting Instructions using the Standard Package Contents.
- Mounting Instructions using the Silhouette/Interlude Bracket Mount.
- Mounting Instructions using the Wall Mount Bracket.

 **Important:** To prevent disconnection or tampering by unauthorized personnel, it is extremely important to install the device such that it is difficult to unplug the device from the network or from the power outlet.

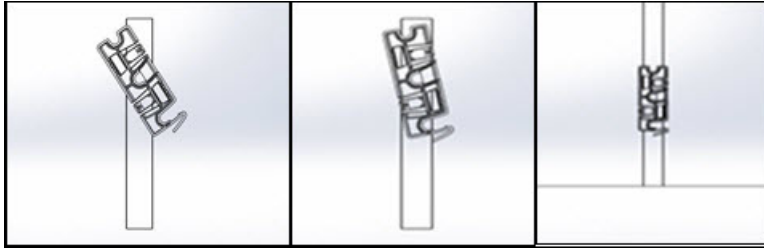
 **Note:** You should label the devices using MAC addresses or at least your own convention. For example, use serial numbers, so that you can easily identify the devices.

Mounting Instructions using the Standard Package Contents

The mounting procedure can be divided into two parts:

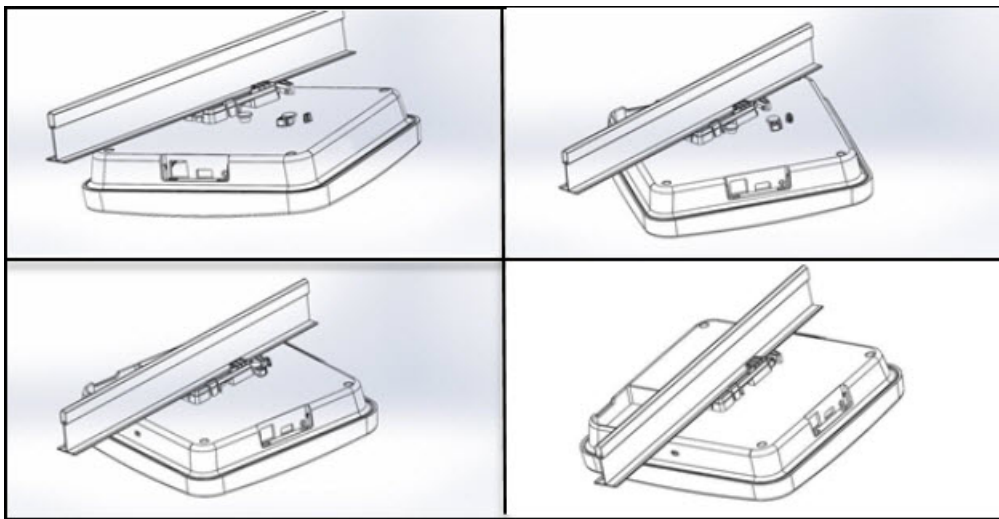
1. **Affixing the bracket to the T -grid:** Use the mounting bracket to install the C-130E on the ceiling. Fix the bracket to the T-grid and rotate the bracket so that it snaps on the T-grid.

The bracket is now parallel to an arm of the T-grid. Ensure that the bracket is properly snapped to the T-grid. Refer to the images given below.



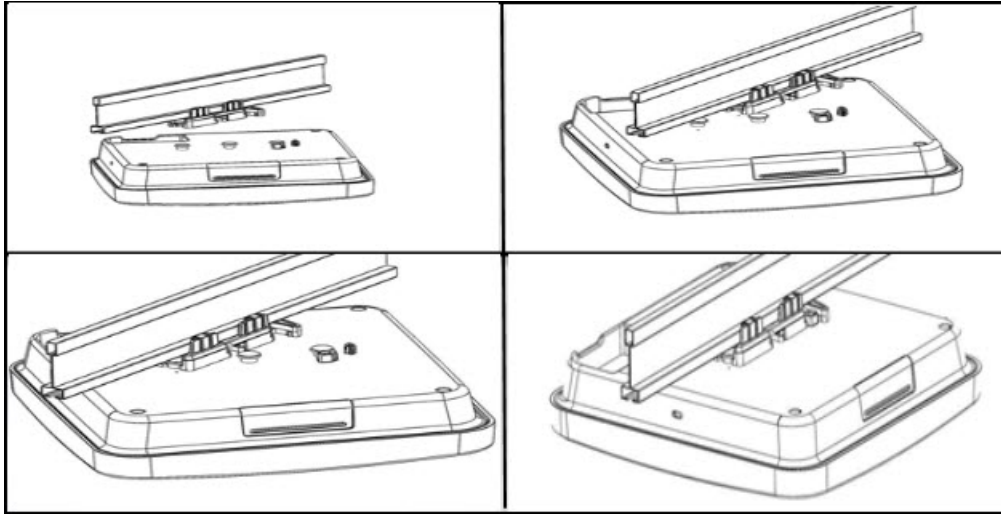
- 2. Mounting C-130E on the bracket:** Place the first mounting post on the rear-side of the device on to the lower notch of the bracket. Rotate the device such that the center mounting post fits in to the center notch on the bracket. Ensure that all the mounting posts on the rear-side of the device are snapped in to the respective notches on the bracket.

The mounting posts on the rear-side of the device are now properly fit in the respective notches of the bracket and device is mounted properly.



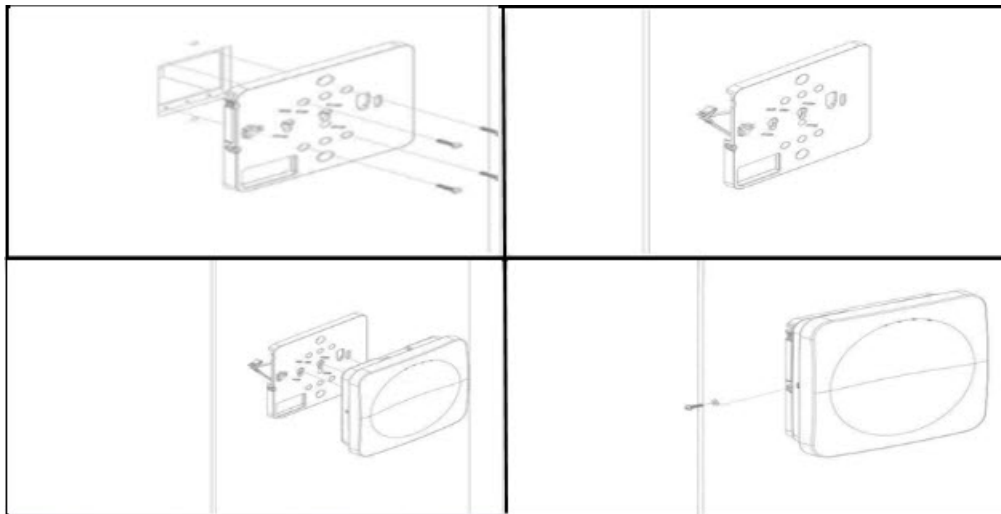
Mounting Instructions using the Silhouette/Interlude Bracket Mount

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 very similar to the Standard Package Content's mounting instructions. Refer to the instructions mentioned in [Mounting Instructions using the Standard Package Contents \(page 7\)](#).



Mounting Instructions using the Wall Mount Bracket

The Wall mounting bracket is not a part of the standard package and must be procured separately. Attach the wall-mounting bracket with the help of screws on to the wall. Pull the side latch to unlock the wall mount bracket. Affix the device on the wall mount bracket by placing the device stubs in the bracket's placeholder. Lock the side latch and affix the device firmly with the screw.



External Antennas C-130E

Make sure the antennas are connected to the respective RP-SMA type of connector ports as shown below:



Power on the C-130E

The C-130E device can be powered on by plugging one end of the Ethernet cable into the PoE+ (802.3at) switch or injector and the other end into the Ethernet/PoE+ port on the C-130E. Ensure the PoE+ source you are using is turned ON.



Note: You can also use regular PoE (802.3af). However, there are certain drawbacks to it:

- The USB is disabled.
- The other ethernet port is disabled.
- The 2.4 GHz radio is downgraded to 1x1 TX/RX capability and Tx power of 15 dBm or lower, (or as set in the device template)
- The 5 GHz radio is downgraded to 2x2 18 dBm or lower, (or as set in the device template)

As an alternative to PoE+, you can insert a power adaptor plug into an AC power outlet and the other end into the power input port on the C-130E.

Using C-130E with Power Adapter

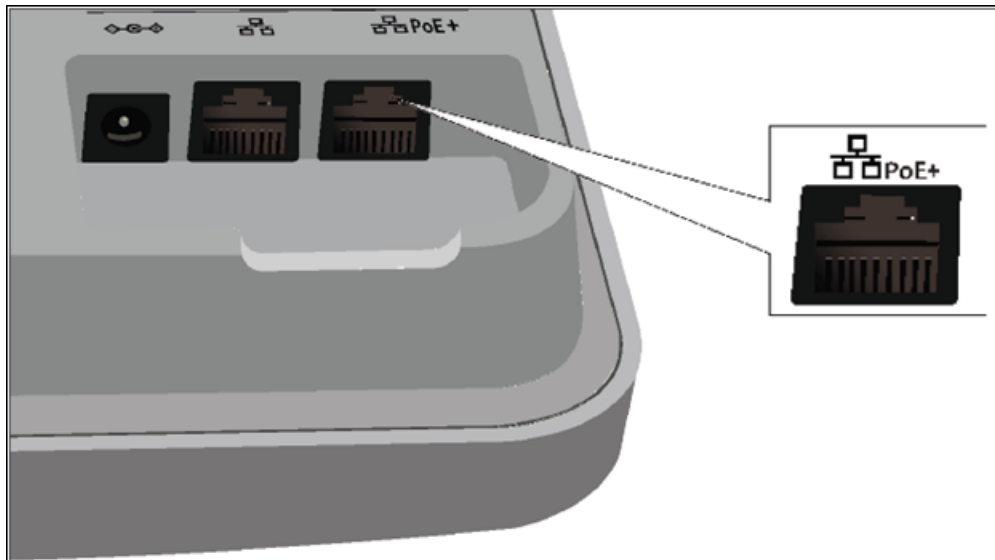
To power up the device with power adapter, perform the following steps:

1. Plug the power cable into the DC power receptacle at the rear of the device.
2. Plug the other end of the power cable into an 110V~240V 50/60 Hz AC power source.

Wait for few minutes for the device to power on. Further you can refer the LED details table to verify the functioning of the device.

Connect C-130E to the Network

The device can be connected to the network by connecting through a LAN cable or a POE+ injector. If you are using a PoE+ injector, make sure the data connection is plugged into a suitable switch port with proper network connectivity.



To connect C-130E to the network, you should meet the following prerequisites:

- Ensure that a DHCP server is already available on the network to enable network configuration of the C-130E.
- DNS should be able to resolve the server discovery primary: **redirector.online.spectraguard.net**, secondary: **wifi-security-server**).
- AP with valid IP address from DHCP server or a valid static IP address1 to communicate with Wireless Manager.
- Check the LEDs Status on the device to ensure that it is operational and connected to the server.

If the conditions above are true, the device should be connected and ready to go operational.

Chapter 5. C-130E Troubleshooting

Following are some of the troubleshooting guidelines for C-130E.

Diagnosis	Solution
The device 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 device is connected. If the device still fails to get a valid IP address, you can reboot it to see if the problem is resolved.
The Ethernet cable is loose. The device is probably disconnected from the network.	Ensure that the Ethernet cable is connected.
Unable to connect to the server	Ensure that the server is running and is reachable from the network to which the device is attached. If there is a firewall or a router with ACLs enabled between the device and the server, ensure that the traffic is allowed on UDP port 3851. Use the server IP-based discovery and ensure that you have correctly entered the DNS name, wifi-security-server , on the DNS server. Also, ensure that the DNS server IP addresses are either correctly configured on the, or are provided by the, DHCP server. It is also possible that the AP is unable to connect to the server because it has failed to authenticate with the server. In this case, an 'Authentication failed for ' 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 the ports UDP 3851 and port 80. If you are using a Proxy, Web Accelerator or URL Content Filter in between the AP and the Internet, ensure 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-wifi@arista.com .