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ARC CBA550 LTE Adapter Quick Start Guide

🕒 Oct 17, 2022 · Knowledge

Content

ARC CBA550 LTE Adapter Quick Start Guide



Introduction

This document provides a brief overview of CBA550 LTE Adapter, discusses what's inside the box, and provides basic setup and install instructions for the router.

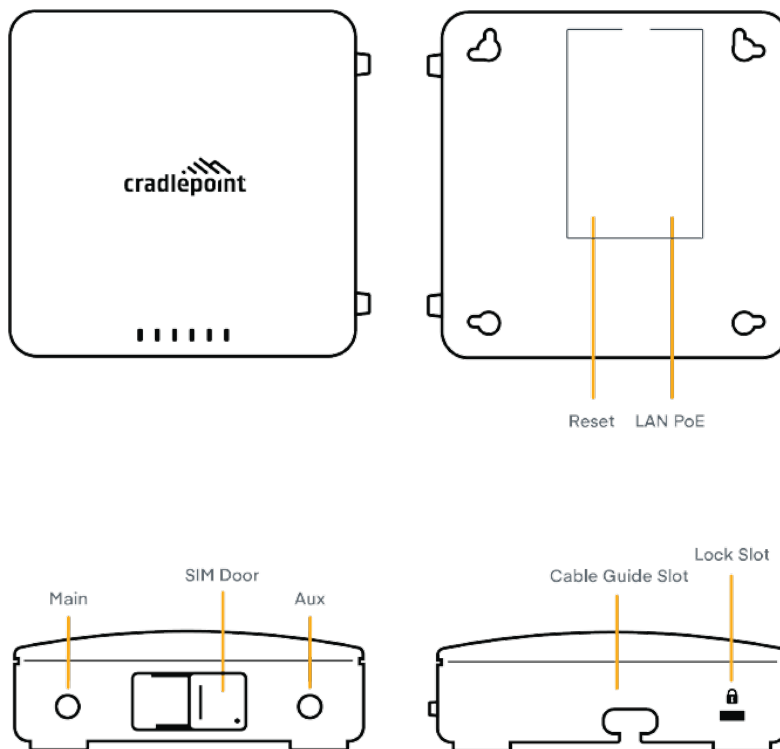
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What's in the Box

- One CBA550 Adapter with embedded 150M LTE modem
- Two universal LTE antennas with SMA direct attach
- One SIM door screw
- Safety, Regulatory, and Warranty Guide

Hardware



Accessories

For proper installation and function of the CBA550, you will also need the following:

- At least one activated 2FF-sized SIM card with active cellular data plan
- An ethernet cable

Required Tools

- #0 Philips-head screwdriver (for SIM cover screw)
- Two M3.5 round-head screws (for mounting)
- #2 screwdriver (for M3.5 round-head screws)

Note: If mounting onto drywall, anchors for the M3.5 screws may be required.

Before You Begin

Read the following before setting up the CBA550 LTE Adapter.

Location Considerations

The CBA550 LTE Adapter is adaptive to any networking environment (i.e., SD-WAN). However, to ensure the device operates efficiently, take into consideration the proximity to the router.

- Since the CBA550 is powered through ethernet (PoE), the device should be positioned so as to be within range of the router it is connected to. To measure, insert the ethernet cable into the router and CBA550. Position the CBA550 in the desired mounting location. If the ethernet cable is taut or too short, consider a new mounting location or use a longer cable (not to exceed 100 meters/328 ft.).
- Additionally, the device should be mounted so as to receive optimal cellular signal reception. Ensure the mounting surface is free of obstructions and will provide enough space for the antennas.
- Refer to the CBA550 Safety, Regulatory, and Warranty Guide (included with your hardware) for more information about location considerations.

SIM Card for Wireless Connectivity

A wireless broadband data plan must be added to your Cradlepoint CBA550 for wireless broadband connectivity. Wireless broadband data plans are available from wireless carriers such as Verizon, AT&T, and T-Mobile. The SIM must be provisioned by the carrier. Contact your carrier for details about selecting a data plan and about the process for provisioning your SIM.

Setup

1. Insert an active 2FF-sized SIM card into the device



- Insert the SIM into the slot marked SIM-1 with the metal contacts up and notch in. It will click into place. Depress the SIM card to remove it.
- Use SIM-2 for secondary/backup SIM.
- Slide the SIM door cover to the right to cover the SIM slots.
- Insert the screw into the closed SIM cover and tighten.
- Slide the SIM door cover to the left to reveal the SIM slots.

2. Attach the antennas



- Attach the two LTE antennas (included) to the connectors. The antennas are jointed, which enables positioning for optimal signal reception.
- To attach each antenna:
 - Hold the antenna straight and twist the base of the antenna onto the connection port on the side of the CBA550 device.
 - Do not over-tighten. The maximum recommended torque is 4 in-lbs.

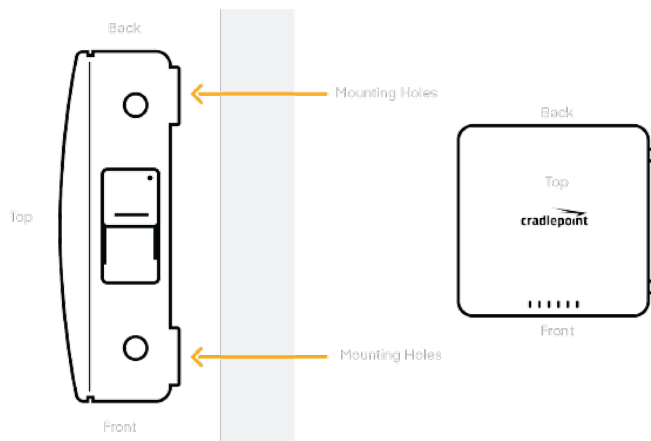
3. Connect the ethernet cable



- Insert one end of the ethernet cable into the CBA550 (as shown).
- Insert the other end into the PoE enabled router.
- Once connected to the powered-on router, the CBA550 LEDs should light up. Refer to the Understanding LEDs section for more information about LEDs.

Note: If the router does not support PoE or does not have a PoE capable port, use a PoE injector optional accessory between the CBA550 and the router for power.

4. Mount the device

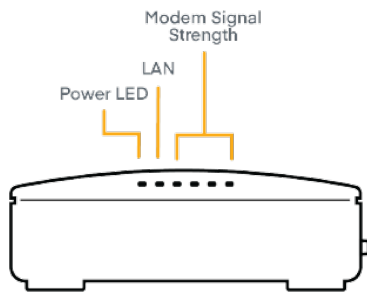


The CBA550 does not require mounting but is designed for it. If mounting the device, do the following:

- Mark the wall for two mounting screw locations.
- Screw the two mounting screws into the wall on the marked locations, leaving space between the screw head and the wall for the device to fit over.
- Slide the CBA550 device over the screws.
- Once mounted, bend and angle the attached antennas, as desired.

Note: Ensure that the antennas are not near metal or other RF reflective surfaces.

Understanding LEDs



INDICATOR BEHAVIOR

Power: The CBA550 must be powered using an ethernet cable (PoE).



- Off = Power Off
- Green = Power ON/ connected with LTE technology
- Yellow = Power ON/not currently connected to cellular network
- Flash Yellow = Requires Attention

LAN Status Indicator: A green LED indicates the Ethernet WAN port status.

LAN

- Off = Ethernet cable is disconnected; link failed
- Green = Ethernet linked
- Blinking Green = Ethernet data activity



Signal Strength: Blue LED bars indicate modem signal strength for the integrated modem.

- 4 Solid bars = Strongest signal
- 1 Blinking bar = Weakest signal

Connecting to NetCloud

Activate your device through NetCloud Manager (NCM). Your device is packaged with NetCloud services and requires that you log into your NetCloud account to activate your device. Refer to the following for more information:

[Getting Started with NetCloud \(https://customer.cradlepoint.com/s/article/Manual-Getting-Started\)](https://customer.cradlepoint.com/s/article/Manual-Getting-Started)

Troubleshooting

Once the CBA550 is connected, ensure that desired functionality is working appropriately through NCM. If there is no Internet connection, refer to the following:

[NCOS: How to Configure WAN Interfaces \(https://customer.cradlepoint.com/s/article/NCOS-How-to-configure-WAN-Interfaces\)](https://customer.cradlepoint.com/s/article/NCOS-How-to-configure-WAN-Interfaces)

Resources

[ARC CBA550 Spec Sheet \(https://cradlepoint.com/datasheet/cba550-series-lte-adapter/\)](https://cradlepoint.com/datasheet/cba550-series-lte-adapter/)

[ARC CBA550 Webpage \(https://cradlepoint.com/product/endpoints/cba550/\)](https://cradlepoint.com/product/endpoints/cba550/)

Help and Support

[Cradlepoint Warranty \(https://customer.cradlepoint.com/s/article/cradlepoint-warranty\)](https://customer.cradlepoint.com/s/article/cradlepoint-warranty)

[Cradlepoint Connect Community \(https://customer.cradlepoint.com/s/\)](https://customer.cradlepoint.com/s/)

CBA550 LTE Adapter Models

This document applies to the following ARC CBA550 LTE Adapter models.

ARC CBA550 MODELS

CBA550-150M-D-NA S5A903A

CBA550-150M-E-G S5A904A

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