

BLOODHOUND

Installation Instructions



The Bloodhound emergency hot spot is a large IP67-rated case with built-in antennas that are optimized for the extra thick (3.5mm) plastic used in industry strength cases. Both sets of LTE and WIFI antennas were designed for maximum performance even in remote areas where the cellular infrastructure may have been compromised. The Bloodhound is configurable up to a 13 in 1 with up to 2 sets of 4X4 MIMO LTE, 4X4 MIMO WIFI and GPS/GNSS capable of running dual SIM's simultaneously. This 5G ready antenna is both portable and made to last.

REQUIRED TOOLS

Philips PH2 Screwdriver

11/32" Wrench

Zip ties/Velcro.

REQUIRED ACCESSORIES (PRO13BH8L4WG-G)

Router options:

Cradlepoint AER2200

Cradlepoint IBR1700-1200M

Cradlepoint R1900

Battery (ChargeTech 54K AC battery Pack – Optional)

Ethernet Cords – 4 Pcs (length as required by the customer)

USB Cords -1 Pcs (length as required by the customer)

Power supply (required for router)

Cradlepoint - #170869-000 (IBR1700 and R1900)

Cradlepoint - #170671-000 (AER2200)

Battery and router Installation:

Step 1: Installing the ChargeTech battery on the top cover plate.

- a. Insert battery into battery tray.
- b. Place the top plate cover on the battery tray and fasten the battery tray to the top cover plate with the black flat head screws.
- c. If the tray does not align perfectly, partially screw in screws at diagonal and opposite positions and screw in fully when all screws are partially screwed and aligned.

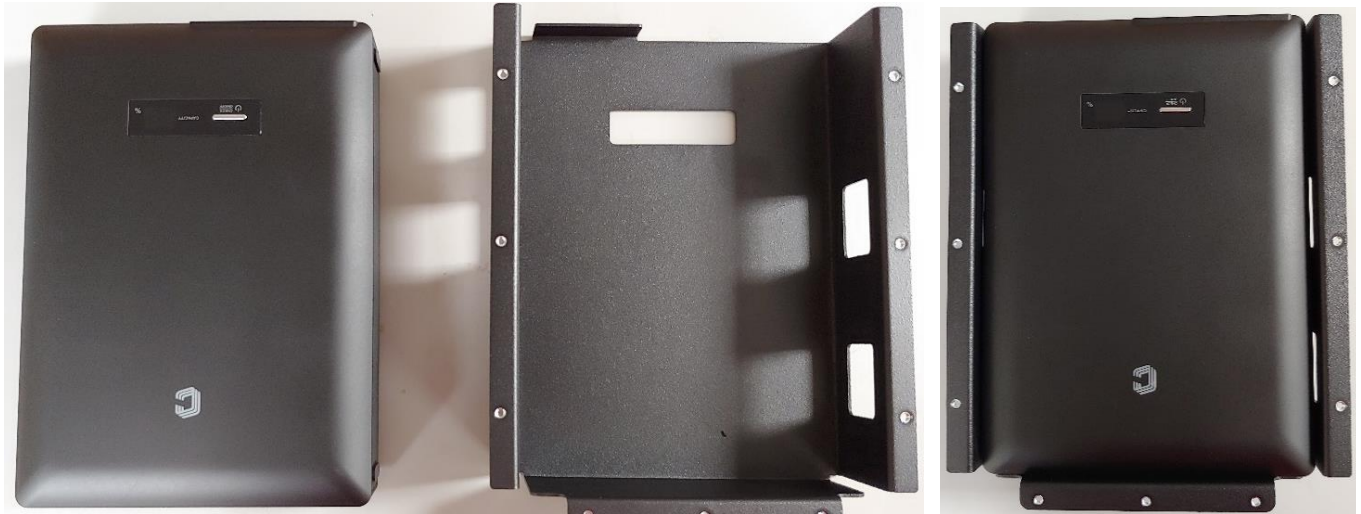


Figure 1: Insert the ChargeTech battery into the battery tray. Ensure the tray does not distort excessively when inserting battery.



Figure 2: Align and screw in the battery tray to the top cover plate with the 6-32 black screws.

Step 2: Check if the router needs brackets to mount it on the top cover plate.

- For Cradlepoint AER2200 router, it needs brackets to mount on the plates.
- Use the brackets provided in the kit and assemble the brackets on the router.
- Fasten brackets to the router at diagonal positions using M4 X 0.7 MM THREAD, 6MM LONG, PAN HEAD PHILIPS SCREWS.



Figure 3: Brackets for Mounting AER2200 and routers.

Step 3: Installing Router on the top cover plate

- For the Cradlepoint AER2200, IBR1700, and R1900 routers, align router with the bottom side of the top cover plate
- Insert the 2.5-inch screws through the top cover plate and router and fasten with the provided nuts on the other side (top side) of the top cover plate.
- Ensure the orientation of the router is correct

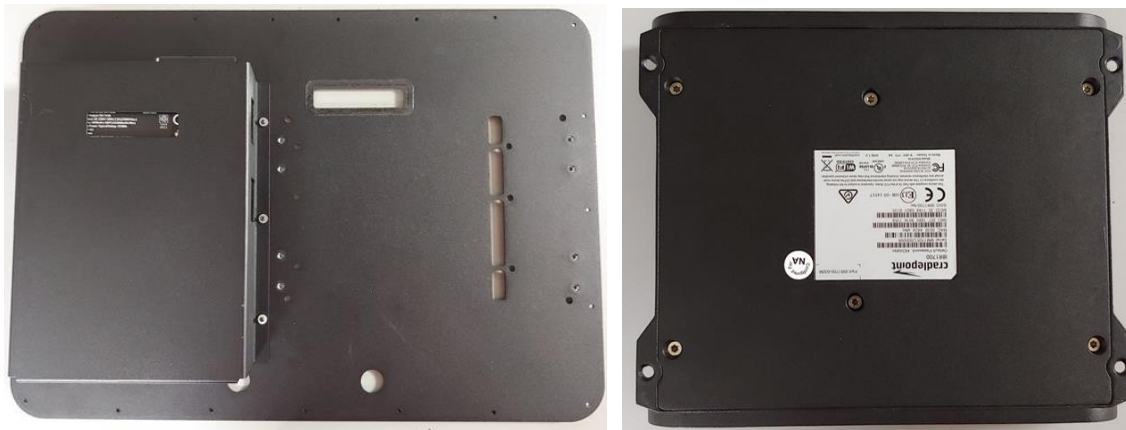


Figure 4: Align router (a) to top cover plate (b).



Figure 5: Insert 2-inch screws (a) and fasten with nuts (b).

Step 4: Connecting the antenna cables to the router.

- a. Clean all the connectors such that there is no dust in the terminals.
- b. Connect the cables from the antenna to the designated connector on the router as shown below for IBRI700 and AER2200.

Wire label on antenna	Connector on router
LTE-1	MAIN 0
LTE-2	AUX 0
LTE-3	MAIN 1
LTE-4	AUX 1
LTE-5	MAIN 0, 2 nd modem
LTE-6	AUX 0, 2 nd modem
LTE-7	MAIN 1, 2 nd modem
LTE-8	AUX 1, 2 nd modem
GPS	GPS
WiFi-1	2.4/5GHz, left gold
WiFi-2	2.4/5GHz, right gold
WiFi-3	5GHz, left gold
WiFi-4	5GHz, right gold

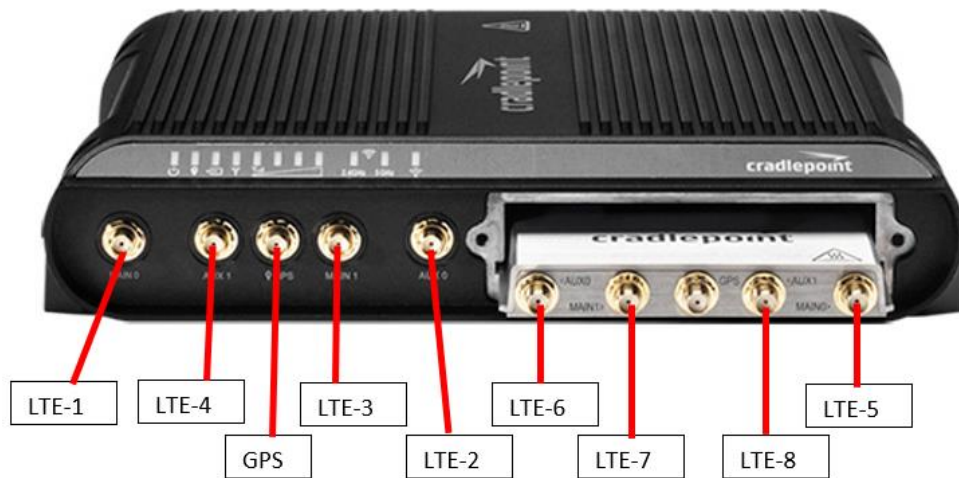


Figure 6: Connect the LTE cables as shown above.

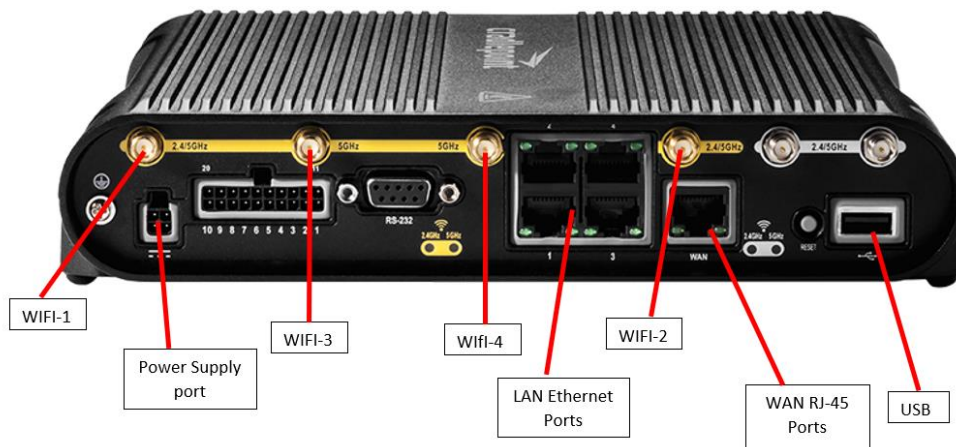


Figure 7: Connect the WIFI cables as shown above.

- c. For the Cradlepoint R1900 router, connect the cables from the antenna to the designated connector on the router as shown below:

S. NO	Cable From Antenna	Connection to Router
1	LTE - 1	MAIN
2	LTE - 2	DIV
3	LTE - 3	MIMO1
4	LTE - 4	MIMO2
5	WiFi - 1	2.4/5 GHz WIFI 1
6	WiFi - 2	2.4/5 GHz WIFI 2
7	Bluetooth	BT
8	GPS	GNSS

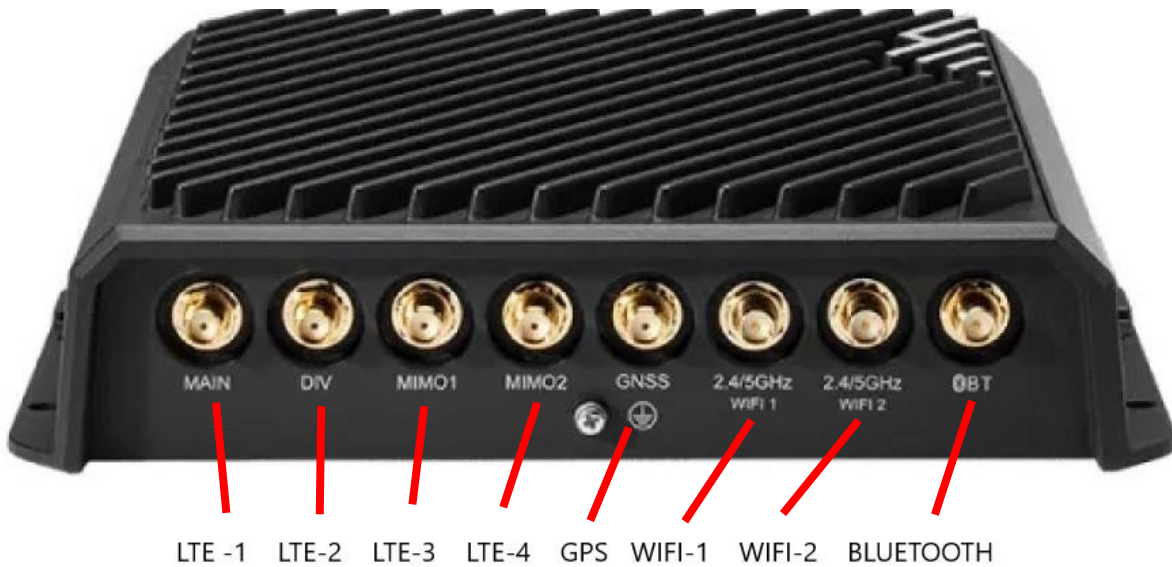


Figure 8: Connect the LTE cables.

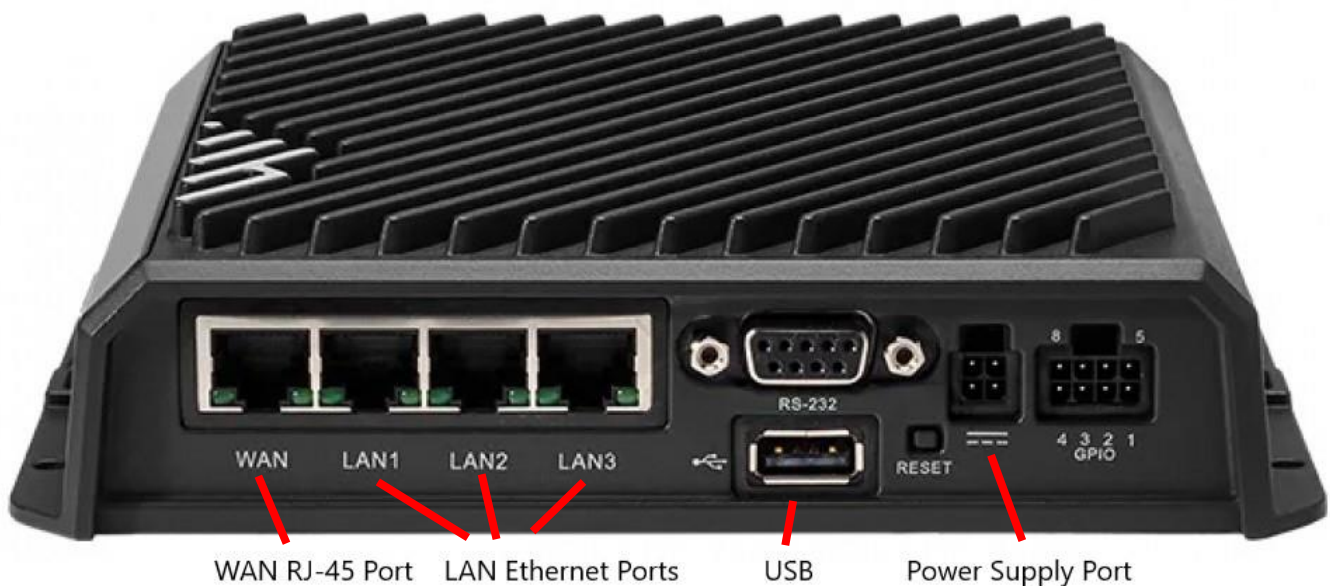


Figure 9: Miscellaneous ports.

Step 4: Connect the power supply unit to the router.

- a. Choose a right AC power supply unit for the router and connect it to the router.

Step 5: Connect one end of the ethernet cords to the required ports on the router.

- a. Choose four ethernet ports on the router that is used in general and connect one end of the ethernet cord to the router.
- b. In general, choose at least one WAN connector and 3 LAN connectors.

Router and case connection instructions:

Step 1: Connect the other end of the ethernet cords to RJ-45 ports on the case.

- a. There are four RJ-45 ports on the case; Choose which port you want to use for LAN and WAN connectors.
- b. Connect the other end of the ethernet cords from the router to the RJ-45 ports on the case.

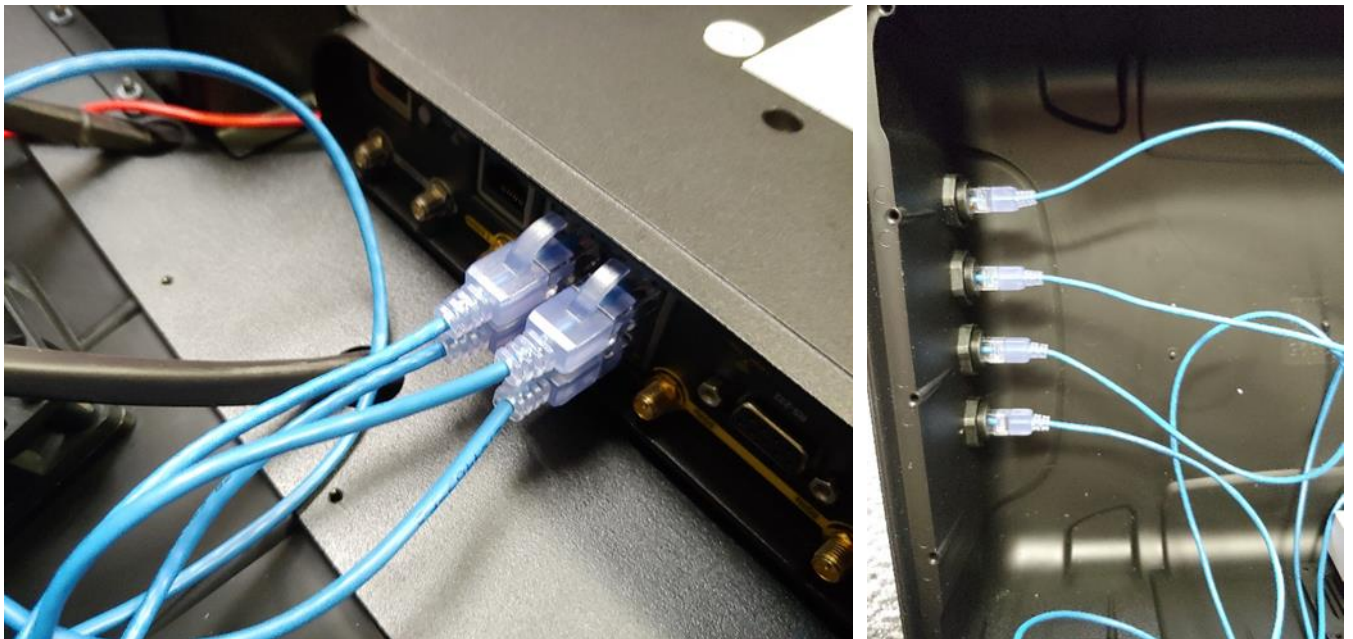


Figure 10: Connect the ethernet cords and from the router to the case.

Step 2: Connect the USB adapter on the case to the surge protector or to the router for data transfer.

- a. There is one USB port on the case, which can be used either for charging electrical devices or to transfer data from the router.
- b. For charging electrical devices connect the USB port on the case to the USB ports on the surge protector using a USB cord.
- c. For data transfer from the router, connect the USB port on the case to the USB ports on the router using a USB cord.

Step 3: Plug the AC adapter of the fan and the router power supply unit to the surge protector.

- a. There are three AC ports on the surge protector. Use the corner ones for fan and router.
- b. After plugging in the AC adapters of the fan and the router, zip tie or Velcro the adapters so it does not unplug.
- c. Make sure to turn ON the surge protector switch.

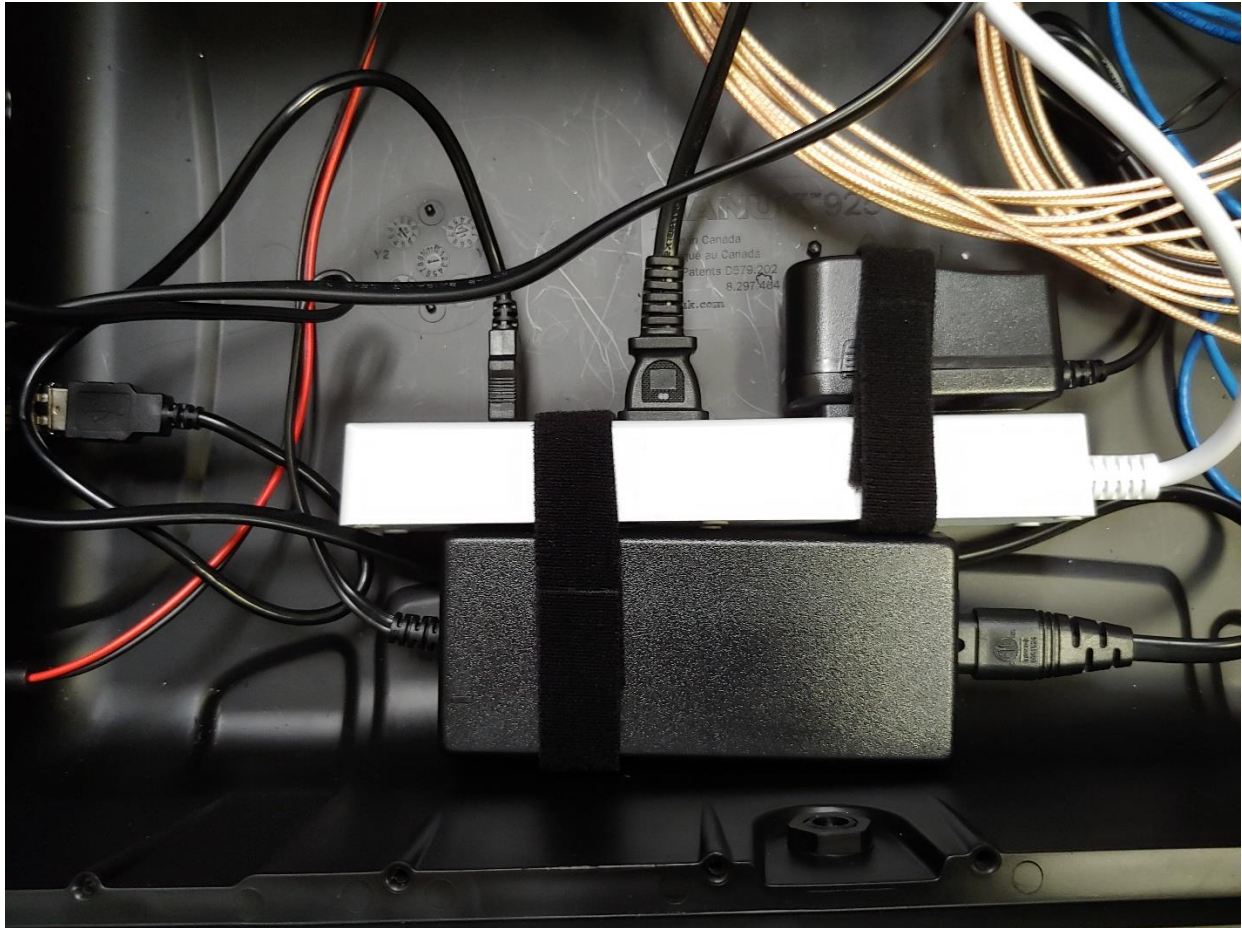


Figure 11. Connect the AC adapters to the surge protector and Velcro or zip tie them.

Battery connection instructions:

Step 1: Connecting the router and fan to the battery.

- a. Turn OFF the AC switch and battery power switch on a battery.
- b. Plug in the AC plug of the surge protector to the AC port of the battery.



Figure 12: Insert the AC plug of the surge protector to the AC port of the battery.

Step 2: Connecting the battery charger.

- a. Connect the DC charging port cable and DC charging port extension cable to the DC charging port of the battery.

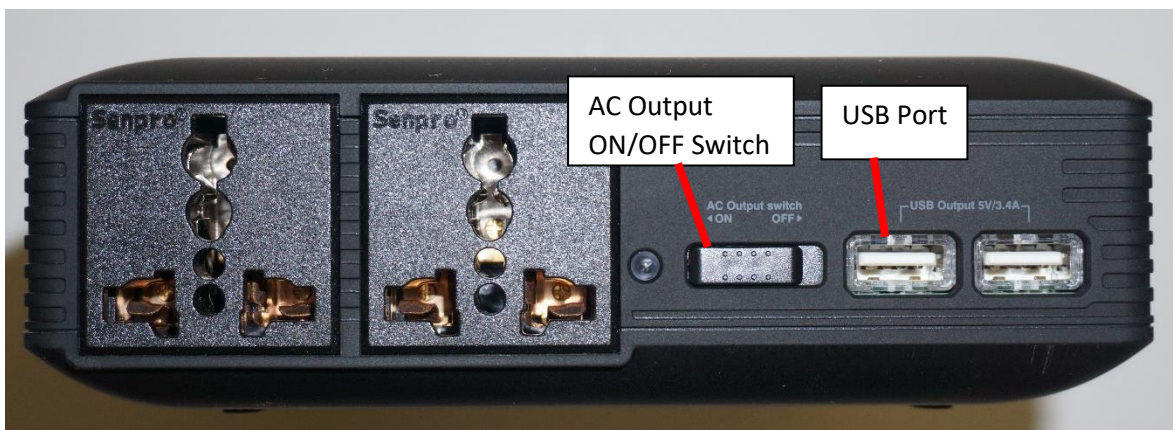


Figure 13: Battery front panel.



Figure 14: DC charging port

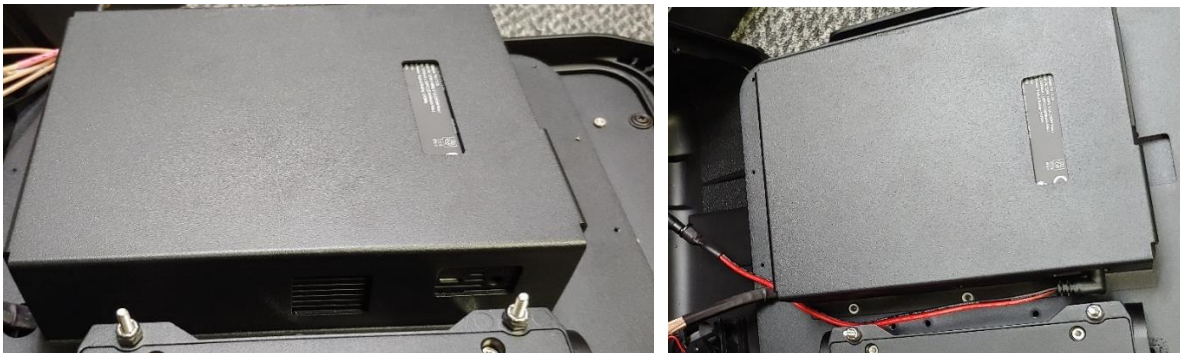


Figure 15: Connecting the enclosure DC port cable to the DC charging port of the battery.

Antenna operation:

Step 1: Make sure all the cables are properly connected.

- a. Check all the connections and make there is no loose connections.
- b. Make sure all the cables are connected to the right port.
- c. Close the lid and fasten top cover plate to enclosure using the black screws provided.



Figure 16: Fasten top cover plate to enclosure using black screws provided.



Figure 17: Final assembly result.

Step 2: Snap OFF the fan and vent caps.

- a. Before turning ON the antenna always snap OFF the caps of the fan and vent.
- b. Make sure that the antenna is away from any liquids, especially when the caps are open.



Figure 18: Snap off the fan cap.

Step 3: Power ON the antenna by plugging in the Extension cord to the case from the wall.

- Switch the main battery power switch to ON and press the power button on the battery. The router will turn ON and the display lights will start blinking and the fan will start operating. **ENSURE THE FAN AND VENT CAPS ARE OPEN.**
- Plug the battery charger to the case through DC port on the left side of the case for charging the battery.

Step 4: Make sure the router is working and the SIM is activated.

- Connect a network cable between the Ethernet ports on a computer and one of the ethernet ports on the antenna enclosure. Make sure you are connected to a LAN port and not a WAN port.
- Bring up a web browser on the computer and type in 192.168.0.1 on the address bar instead of a URL. You should see the Cradlepoint login.

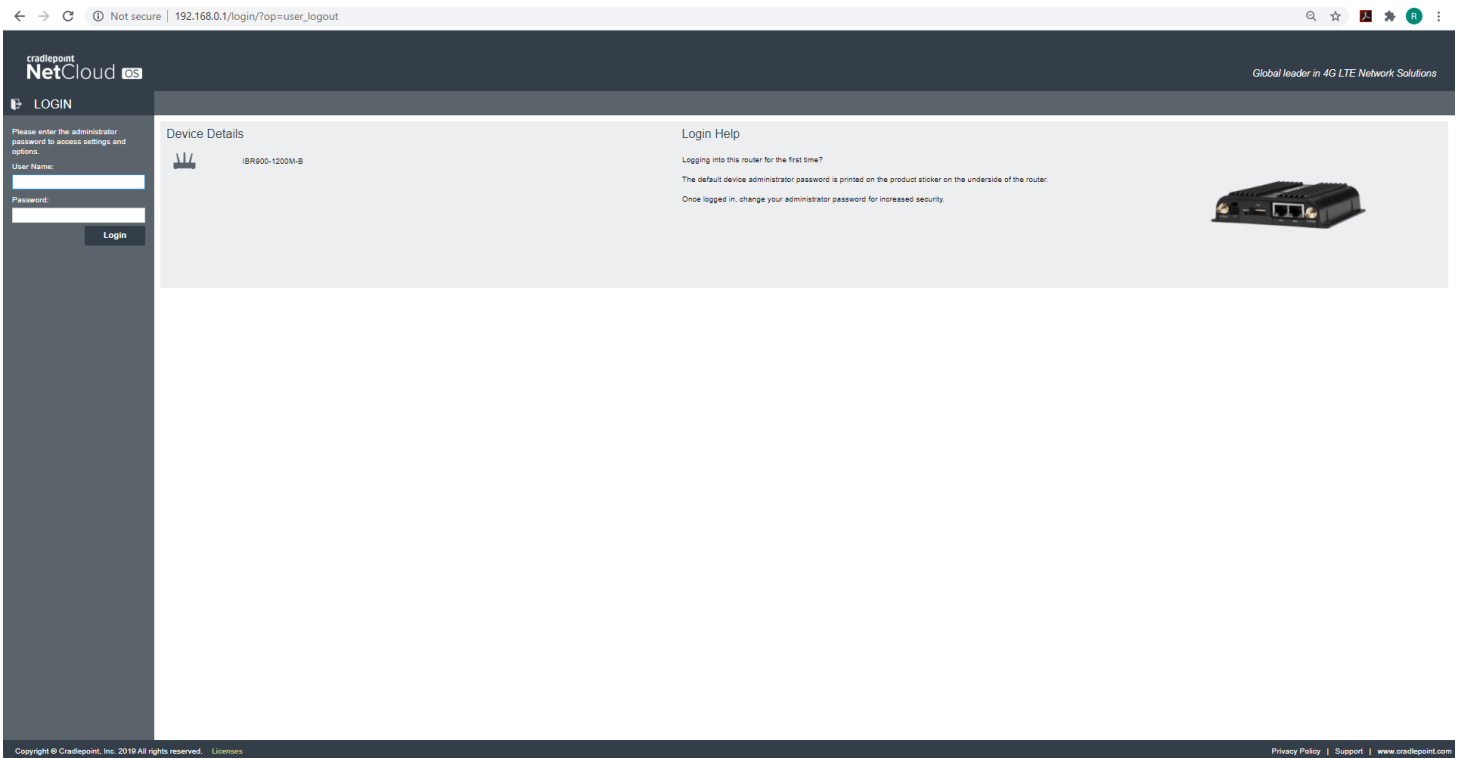


Figure 19: Cradlepoint login browser.

- c. Type in the username as "admin" and default password from the label on the unit.



Figure 20: IBR900 label.

- d. In the router, click on Status then Internet then connections in the dropdown menu. You should see options related to SIM cards installed. Select the option with a cellular SIM.


Property	Value
Summary	
State	connected
Manufacturer	Cradlepoint Inc.
Model	Internal 1200M-B (SIM2)
Modem Firmware Version	32.00.123
Service Display	LTE
Registered Carrier	Verizon
Home Carrier	Verizon
Roaming Status	Home
Signal Strength	02
RSSI	-79 dBm
SINR	7.4 dB
RSRP	-111 dB
RSRQ	-15 dB

Figure 21: Internet status.


If all the steps are passed, the antenna in ON and is working.

Warnings:

Make sure the fan cap covers are open while using the antenna.
Install the sim in router before mounting on to the router mount plate.




CAUTION
To comply with FCC RF Exposure requirements in section 1.1310 of the FCC Rules, antennas used with this device must be installed to provide a separation distance of at least 20 cm from all persons to satisfy RF exposure compliance.



DO NOT

- Operate the transmitter when someone is within 24 inches of the antenna.
- Install antenna or mast assembly on a windy day
- Install the mast close to power lines as it can cause serious injuries or death.



WARNING
This document gives the detailed instructions to install an antenna to the best of our knowledge. This document is for general information only. It cannot be used as a warranty. Parsec Technologies, Inc. will not accept any liability for any damage caused by an antenna due to unknown variables.



Parsec Technologies
972-804-4600
support@parsec-t.com

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