ST. BERNARD
Installation Instructions

Table of Contents

* Conditions apply

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Antenna Versions

The St. Bernard case antenna comes in three versions – A, G, and L – with different features, listed below.

St. Bernard A	St. Bernard G	St. Bernard L
• AC Power Port	• 4x RJ-45 Ports • USB-A Port • Battery Operated (battery not included) • 40mm Fan	• AC Power Port • 4x RJ-45 Ports • 40mm Fan

Required Tools & Accessories

The following tools (not provided) are required in for the installation of the St. Bernard case antenna:

- Philips Screwdriver
- 11/32" Wrench

The table below lists the required accessories for the A, G, and L versions of the St. Bernard case antenna.

	St. Bernard A	St. Bernard G	St. Bernard L
Provided with Antenna	• PTA0071B Black Round Head Screws, 14 pcs • PTA0399-TL Pan Head Screws, 4 pcs • PTA1146 NEMA 5-15 Plug to 5-15 Socket, 6 FT***	• NEMA Male to Female Adapter • PTA0071B Black Round Head Screws, 14 pcs • PTA0368-B Black Flat Head Machine Screws, 9 pcs • PTA0399-TL Pan Head Screws, 4 pcs • Ethernet Cords, 4 pcs * • USB-A Cord * • Battery Tray for ChargeTech 54K Battery Pack • Cable Ties	• PTA0071B Black Round Head Screws, 14 pcs • PTA0399-TL Pan Head Screws, 4 pcs • Ethernet Cords, 4 pcs * • Cable Ties • PTA1146 NEMA 5-15 Plug to 5-15 Socket, 6 FT***
To Be Purchased By Customer		• 54K AC Battery Pack (ChargeTech #CT-600062) • USB-A Cord ** • Ethernet Cords, 4 pcs **	• Ethernet Cords, 4 pcs **
	• Cradlepoint IBR1700 (for other routers, contact customer service at support@parsec-t.com) • 12V 2x2 Router Power Supply (Cradlepoint #170716-001) • Cable Ties (optional)		

* For connecting the router to the ports on the case

** Optional for connecting external devices to the case, length as required by customer

*** For connecting to NEMA 5-15P outlet on case

Battery and Router Installation

Step 1: Mount the ChargeTech 54K battery pack to the cover plate (St. Bernard G only).
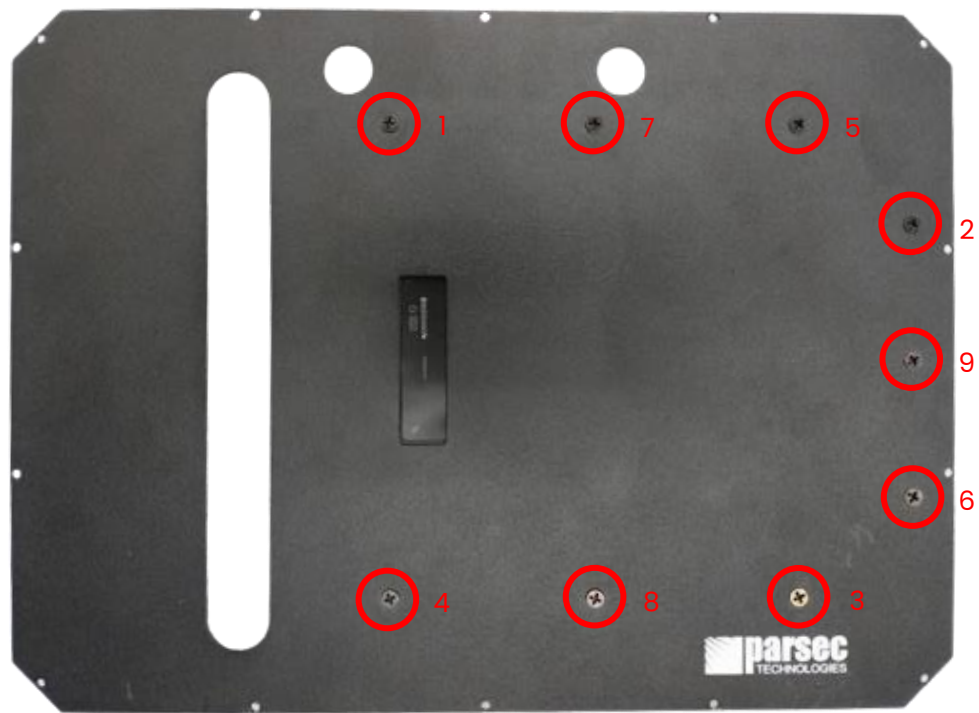
A. This step only applies to the St. Bernard G.
B. Remove the cover plate from the enclosure.
C. Remove the pads from the side of the battery pack, shown in Figure 1.
D. Insert the battery pack into the battery tray, as shown in Figure 2. Ensure that the battery pack ports are at the open end of the battery tray.
E. Place the cover plate onto the battery tray and fasten with the nine PTA0368-B black flat head machine screws provided in the kit, as shown in Figure 3. If the battery tray does not align perfectly with the cover plate, partially tighten the screws at opposite diagonal positions first, then install all other screws before fully tightening. It may help to install the screws in the order shown in Figure 3.

Figure 1: Remove the pads from the side of the battery pack.

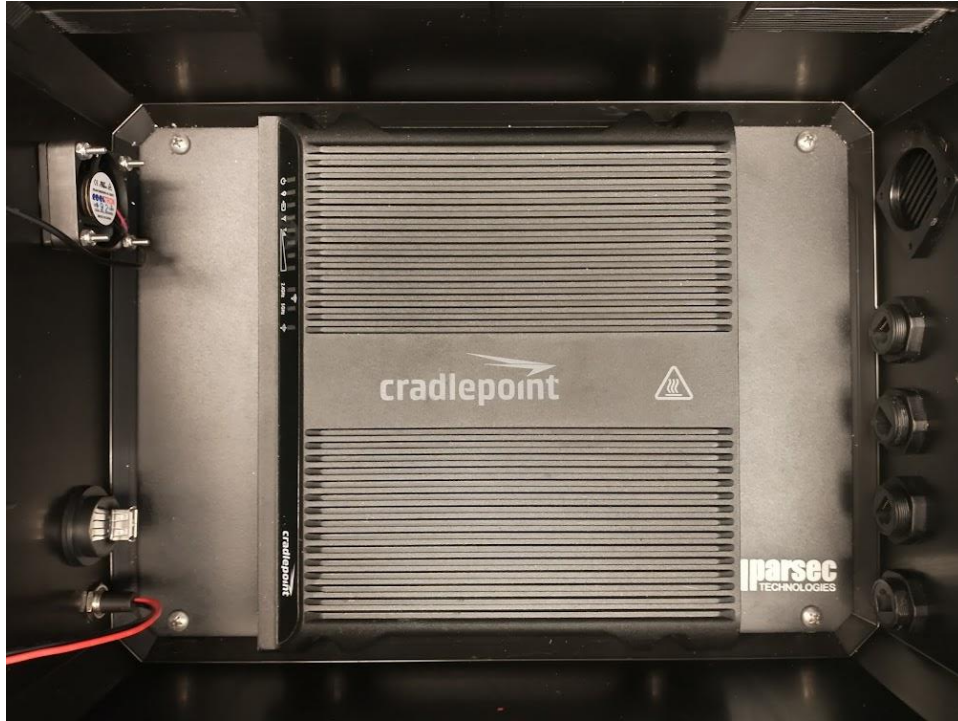Battery Ports at the Open End of the Battery Tray

Figure 2: Place the ChargeTech battery pack into the battery tray. (St. Bernard G)

Figure 3: Fasten the battery tray with battery pack to the cover plate using PTA0368-B screws. (St. Bernard G)

Step 2: Mount the router to the cover plate.

A. Align the router with the holes on the cover plate. Ensure the router orientation is correct. The router display should be on the left side.
B. Mount the router using the four PTA0399-TL pan head screws provided in the kit, as shown in Figure 4.
C. Guide the cable bundles back through the holes in the cover plate.

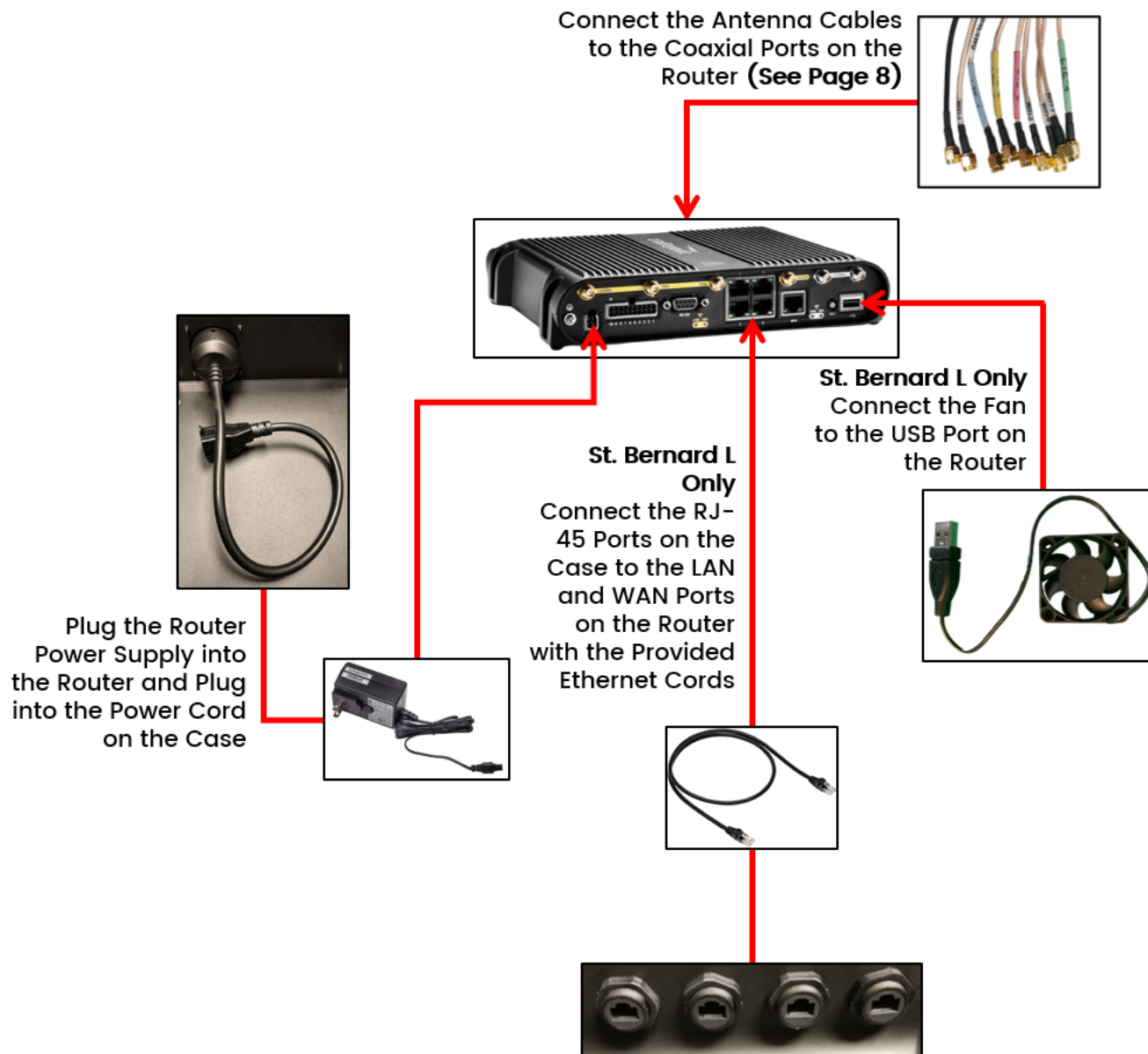*Figure 4: Fasten the router to the cover plate using PTA0399-TL screws.*

Connection

Connect the Antenna Cables to the Coaxial Ports on the Router **(See Page 8)**

Plug the Router Power Supply into the Router and Plug into the Power Cord on the Case

St. Bernard L Only
Connect the RJ-45 Ports on the Case to the LAN and WAN Ports on the Router with the Provided Ethernet Cords

St. Bernard L Only
Connect the Fan to the USB Port on the Router

Figure 5: Connection Diagram for St. Bernard A & L

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Connect the DC Charging Cable on the Case to the Battery Charging Port

Connect the USB Port on the Case to the USB Port on the Battery with the Provided USB Cord

Connect the Antenna Cables to the Coaxial Ports on the Router (See Page 8)

Connect the Fan to the USB Port on the Router

Connect the RJ-45 Ports on the Case to the LAN and WAN Ports on the Router with the Provided Ethernet Cords

Plug the Router Power Supply into the Router and Plug into the Outlet on the Battery with the Provided Extension Cord
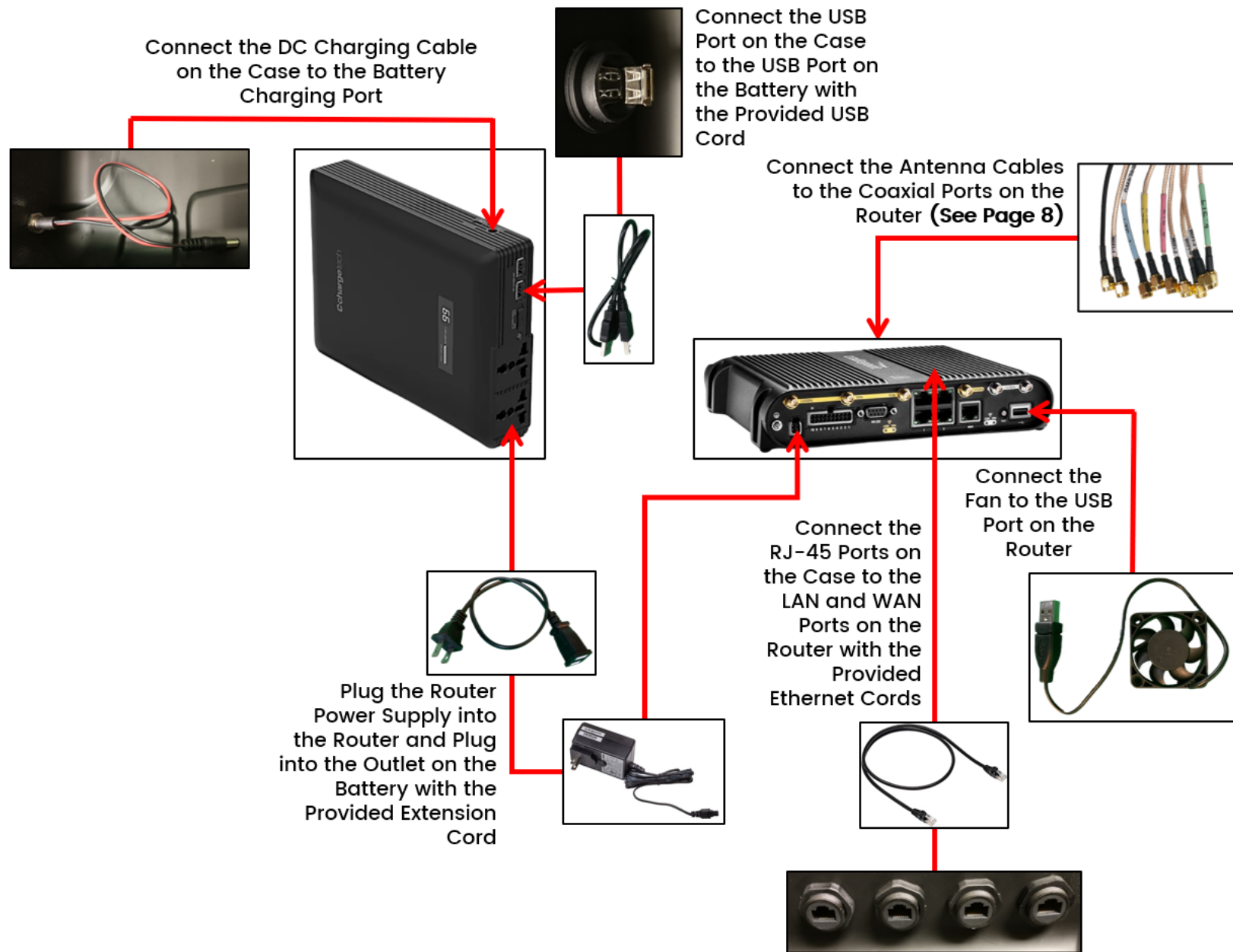
Figure 6: Connection Diagram for St. Bernard G

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Step 1: Connect the antenna cables to the router.

A. Use canned air or isopropyl alcohol to clean all the connectors to ensure that there is no dust in the terminals.

B. Connect the antenna cables to the designated terminals on the router, as shown in the tables and images below.

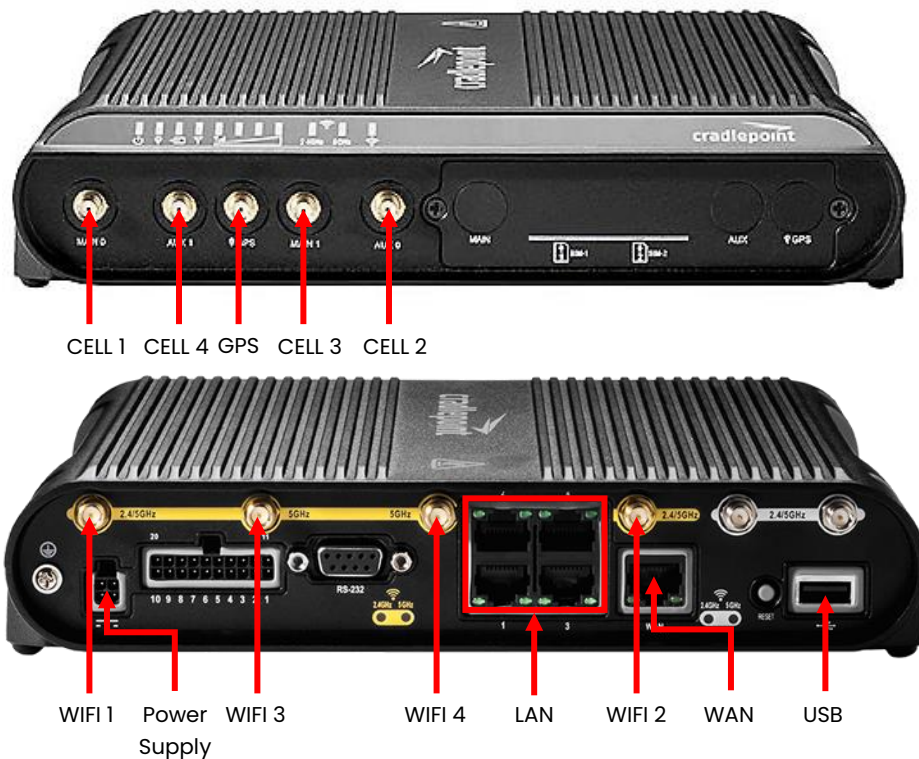| Cradlepoint IBR1700	
Antenna Cable	Router Terminal
CELL 1	MAIN 0
CELL 2	AUX 0
CELL 3	MAIN 1
CELL 4	AUX 1
GPS	GPS
WIFI 1	2.4/5GHz, left
WIFI 2	2.4/5GHz, right
WIFI 3	5GHz, left
WIFI 4	5GHz, right

Figure 7: Cradlepoint IBR1700 Connections
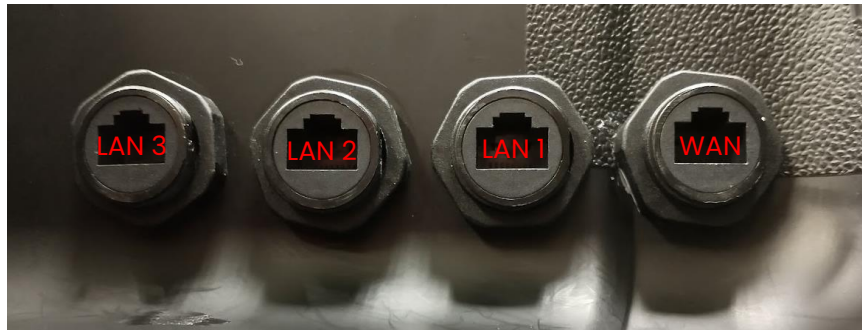
Step 2: Connect the power supply to the router.

A. Connect the router power supply to the power supply port on the router, shown in Figure 7.
B. For St. Bernard A & L, plug the router power supply into the AC power port on the case.
C. For St. Bernard G, plug the router power supply into the NEMA male to female adapter. Plug the NEMA male to female adapter into AC outlet on the battery pack, shown in Figure 8.

Step 3: Connect the fan to the router (St. Bernard G & L only).

A. This step only applies to the St. Bernard G and L.
B. Plug the USB-A cord from the fan into the USB-A port on the router, shown in Figure 7.

Step 4: Connect the router to the RJ-45 ports on the case using ethernet cords (St. Bernard G & L only).

A. This step only applies to the St. Bernard G and L
B. Connect the provided ethernet cords to the LAN and WAN ports on the router, shown in Figure 7.
C. Connect the other ends of the ethernet cords from the router to the RJ-45 ports on the case. Keep track of which cord is connected to the WAN port on the router. Consider connecting the WAN port on the router to the front RJ-45 port and the LAN ports on the router to the back three RJ-45 ports, as shown in Figure 8.
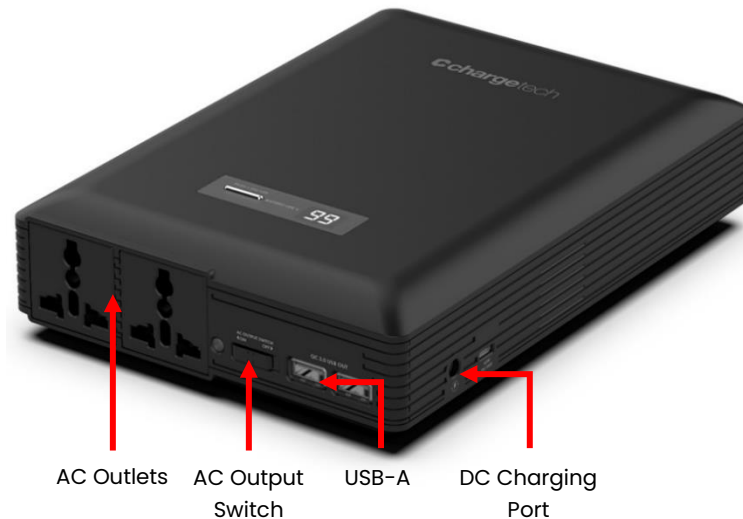

Figure 8: Connect the router to the RJ-45 ports on the case using ethernet cords.

Step 5: Connect the USB-A port on the case to the battery pack (St. Bernard G only).

    A.   This step only applies to the St. Bernard G.

    B.   Plug the provided USB-A cord into the USB-A port on the case and the USB-A port on the battery pack, shown in Figure 9.

Step 6: Connect the battery pack to the DC charging port on the case (St. Bernard G only).

    A.   This step only applies to the St. Bernard G.

    B.   Connect the DC charging port cable from the case to the DC charging port on the side of the battery pack, shown in Figure 9.

Figure 9: ChargeTech 54K Battery Pack Connections. (St. Bernard G)

Final Assembly

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

A. Inspect every cable connection and ensure that no connections are loose.
B. Use cable ties or other wire management to neatly bundle the cables. Pack the cables neatly inside the bottom half of the case. Ensure that the antenna cables are not excessively bent (1/2" minimum bend radius). For the St. Bernard G, ensure that no antenna cables are running across the top of the router.

Figure 10: Fully Connected 9in1 St. Bernard A with Cradlepoint IBR1700 Router

Figure 11: Fully Connected 9in1 St. Bernard G with Cradlepoint IBR1700 Router

Figure 12: Fully Connected 9in1 St. Bernard L with Cradlepoint IBR1700 Router

Step 2: Fasten the cover plate to the case.

    A. Place the cover plate onto the bottom half of the case. Ensure that no cables are pinched between the cover plate and the case.

    B. Fasten the cover plate to the case using the fourteen PTA0071B black round head screws provided in the kit, as shown in Figure 13.
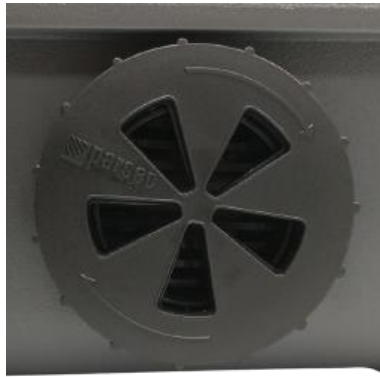

Figure 13: Fasten the cover plate to the case using PTA0071B screws.

Operational Setup

Step 1: Open the fan and vent caps (St. Bernard G & L only).

 A. This step only applies to the St. Bernard G and L.

 B. Before turning the antenna ON, always open the fan and vent caps. The type of cap may vary.

 C. Ensure that the antenna is away from any liquids when the caps are open.

Figure 14: Open the fan and vent caps. (St. Bernard G & L)

Step 2: Power on the router.

 A. For St. Bernard A & L, connect a power cord to the AC outlet on the outside of the case.

 B. For St. Bernard G, follow steps 2C-2G below.

 C. Turn the battery pack ON by pressing and holding the power button for 3 seconds. The display on the battery pack will indicate the battery pack's current battery life (%). Do not hold the button for longer than 3 seconds; this will cause the battery pack to enter programming mode. To exit programming mode, turn the battery pack OFF then ON again.

 D. Set the AC output switch on the battery pack to ON. The switch can be accessed through the slot in the cover plate.

 E. Shortly after turning on the battery pack, the fan will start.

 F. To charge the battery pack, connect the battery pack charger to the DC charging port on the outside of the case.

 G. See Page 18 for Battery Operation and Safety Guidelines.

Step 3: Connect the router to a computer.

    A.   Use an ethernet cable to connect a computer to one of the RJ-45 ports on the case that are connected to the LAN ports on the router.

Step 4: Login to Cradlepoint NetCloud.

    A.   Open a web browser on the computer and type 192.168.0.1 into the address bar. This will bring up the Cradlepoint NetCloud login, shown in Figure 15.

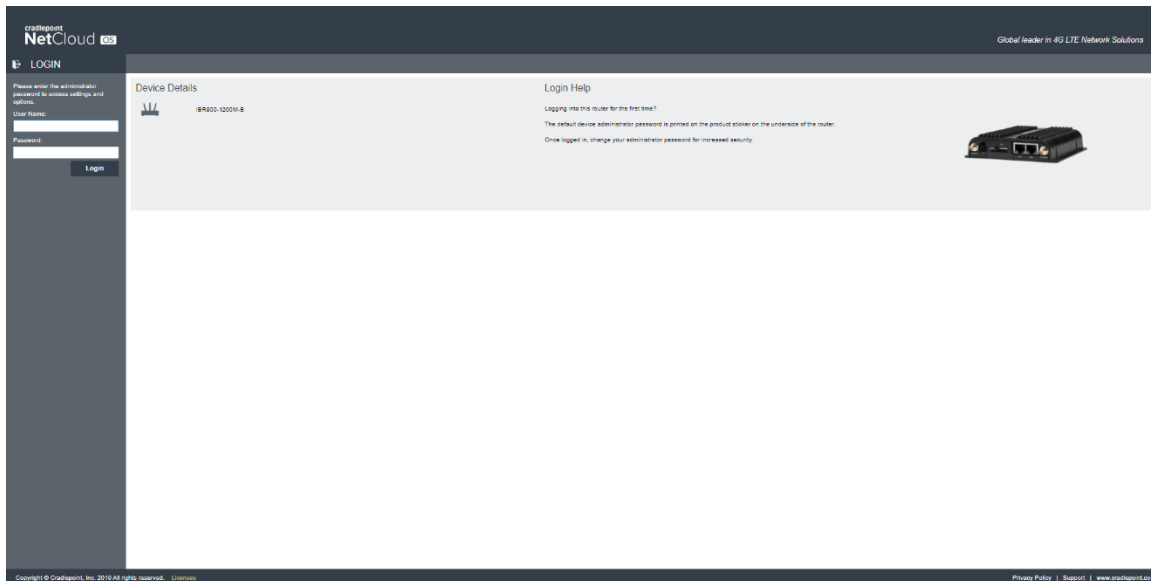   B.   Login to Cradlepoint NetCloud. The username is "admin", and the password is found on the router, shown in Figure 16.
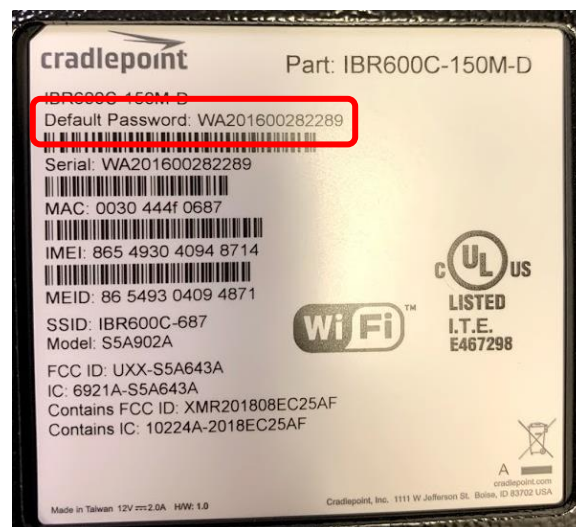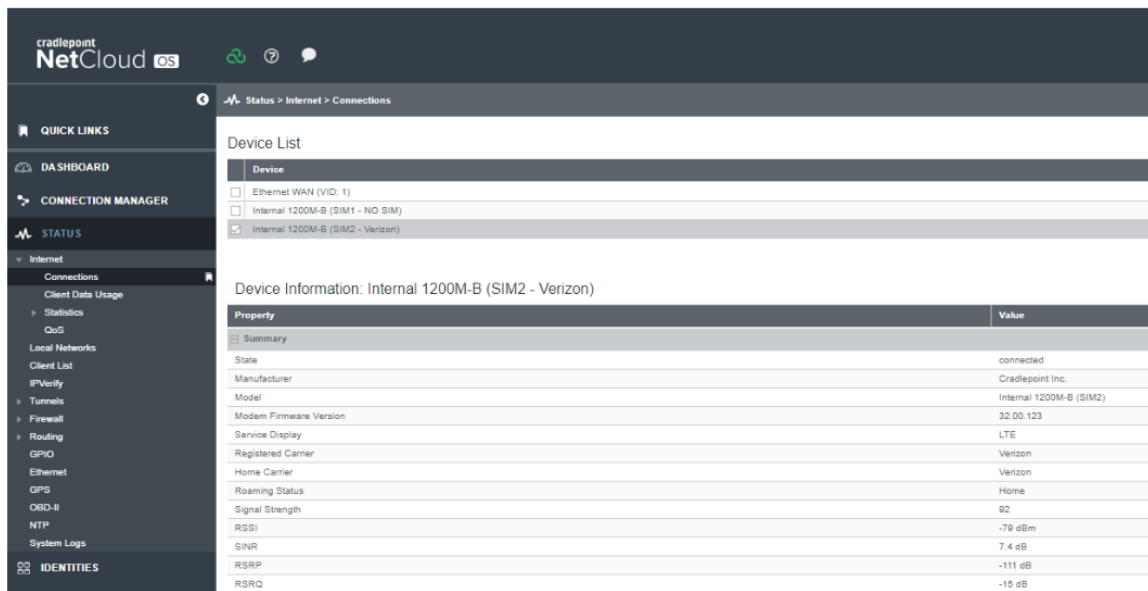

Figure 15: Access Cradlepoint NetCloud.

Figure 16: Cradlepoint NetCloud Login Password

Step 5: Select the router in the device list on Cradlepoint NetCloud.

A. On the left side of the page, select STATUS. From the dropdown menu, select INTERNET and then CONNECTIONS.

B. In the Device List table, select the option with a cellular SIM, as shown in Figure 17.

Figure 17: Select the device with a cellular SIM in Cradlepoint NetCloud.

Antenna setup is complete!

For best antenna performance, operate the antenna with the lid closed and the case oriented with the lip on top.

If applicable, make sure the fan and vent caps are open while using the antenna.

Battery Operation and Safety Guidelines

A. To manually power ON/OFF, press and hold the power button (located on the top of the unit) for 3 seconds. All LED lights/display should turn ON/OFF.

B. Holding the power button for longer than 3 seconds will cause the battery pack to enter programming mode. To exit programming mode, turn the battery pack OFF and then ON again.

C. Recharging the battery pack can be done with the included 48W Charging Adapter or with a Type-C PD Charger with at least 45W of power and up to 65W maximum.

D. To use the AC outlet, slide the AC power switch to the ON position and press the power button. The solid red LED light will come on, which indicates that the AC outlet is on. A device plugged into the AC outlet must be 15-250W for the AC outlet to work. Otherwise, the AC outlet will automatically shut off.

E. If no power draw is detected after 90 seconds, the battery pack with shut OFF to conserve energy. While the unit is OFF, press and hold the power button until the display begins flashing. This activates continuous mode, and the entire unit will stay ON until manually turned OFF.

F. While plugged in and charging, the battery pack will allow pass-through charging to continue powering any devices that are plugged in to the battery pack. To disable this function, press and hold the power button for 2 seconds while the battery pack is charging. Repeat to re-enable pass-through charging for all ports.

G. Warning: if the battery pack exceeds a safe operating temperature due to insufficient ventilation or a high-temperature environment, the unit will automatically shut OFF.

H. Keep out of reach of children.

I. The product may become uncomfortable warm, reaching 140°F (60°C) under extended, high-power usage. While using the product, make sure to keep it away from materials that may be affected by high temperatures.

J. Hold on carefully when inserting or removing a cable. Make sure not to force or bend cables when inserting them into the charging ports.

K. Avoid inserting any foreign objects into the ports.

L. Do not attempt to open, alter, or modify the unit.

M. Do not use in temperatures over 100°F (40°C).

N. Do not expose the product to wet conditions such as water, rain, or snow.

O. Failure to follow these safety guidelines may cause personal injury and/or property damage to the product. It may also void the product warranty.

Disclaimer

CAUTION

To comply with FOC 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:

- Do not operate the transmitter when someone is within 24 inches of the antenna
- Do not install the antenna or mast assembly on a windy day
- Do not install the mast close to power lines as it can cause serious injuries or death

WARNING

This document is for general information only. It cannot be used for a warranty. Performance and other data contained were obtained in internal lab tests under ideal conditions, and performance may vary due to network variables, different network environments and other conditions. Parsec Technologies Inc. will not accept any liability for any damage caused by an antenna due to unknown variables. Parsec Technologies Inc. reserves the right to change, modify, transfer, or otherwise revise this publication without notice, and the most current version of the publication will be applicable.

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Last Revised: 05.05.2025