ST. BERNARD G2
Installation Instructions

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Antenna Versions

The St. Bernard case antenna comes in multiple versions with different features, listed below.

St. Bernard A*	St. Bernard G2
• AC Power Port	• 4x RJ-45 Ports • USB-A Port • 40mm Fan • Battery Operated – OmniCharge 30C+ **Custom** Battery, OP3CPA01 (battery not included)
St. Bernard L*	**St. Bernard G***
• AC Power Port • 4x RJ-45 Ports • 40mm Fan	• 4x RJ-45 Ports • USB-A Port • 40mm Fan • Battery Operated – ChargeTech 54k Battery (battery not included)

* Please see the St. Bernard Installation Instructions on the Parsec Website

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 G2
Provided with Antenna	- 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 Omnicharge 30C+ Battery Pack - Cable Ties
To Be Purchased By Customer	**Router Options:** - Ericsson IBR1700 - PTA1181 Omnicharge 30C+ **Custom** Battery Pack (OP3CPA01) 65W GaN Charger for OmniCharge Battery - Ethernet Cords, 4 pcs ** - USB-A Cord

* For connecting the router to the ports on the case

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

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Battery and Router Installation - St. Bernard G2

Step 1: Mount the Omnicharge 30C+ battery pack to the battery tray.

A. Remove the cover plate from the enclosure.
B. Insert the battery pack into the battery tray, as shown in Figure 1. Ensure that the battery pack ports are at the open end of the battery tray, as shown below.
C. Place the cover plate onto the battery tray and fasten with the six PTA0399-TL Pan Head screws provided in the kit, as shown in Figure 2.

Battery Ports at the Open End of the Battery Tray

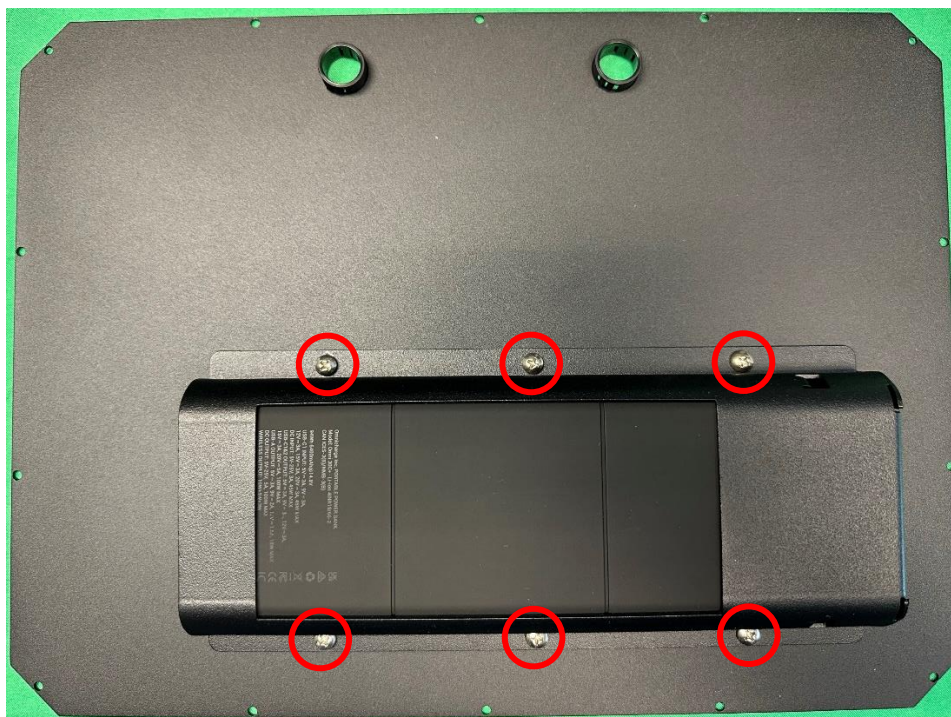*Figure 1: Place the Omnicharge 30C+ battery pack into the battery tray.*

Figure 2: Fasten the battery tray with battery pack to the cover plate using PTA0399-TL.

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Step 2: Mount the router to the bottom plate.

    A.   If not already done, remove the cover plate from the enclosure.

    B.   Install the SIM Card/s into the Router.

    C.   Align the router with the holes on the bottom plate. Ensure the router orientation is correct, as shown in the images below.

    D.   Mount the router using the four PTA0399-TL screws provided in the kit, as shown in Figure 3.

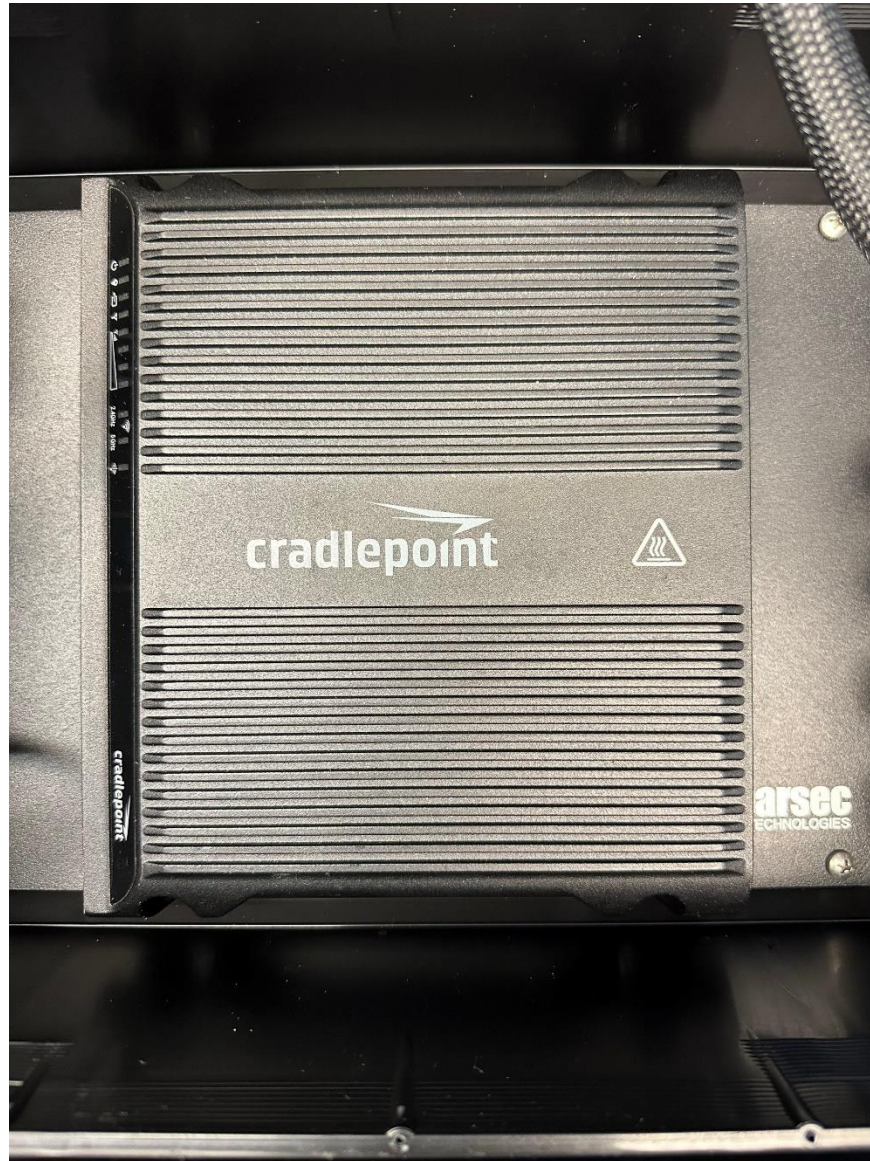   E.   Guide the cable bundles back through the grommet in the cover plate.

Figure 3: Fasten the router to the cover plate using PTA0399-TL screws.

Connection

Connect the Fan to the USB Port on the Battery

Connect the USB-C Charging Cable on the Case to the In/Out USB-C Port on the Battery

Connect the Antenna Cables to the Coaxial Ports on the Router **(See Page 7)**

Connect the USB-C to Barrel Adapter to the Battery

Connect the 4-pin cable to the Router

Connect the USB-C to Barrel Adapter to the Barrel to 4-pin Adapter

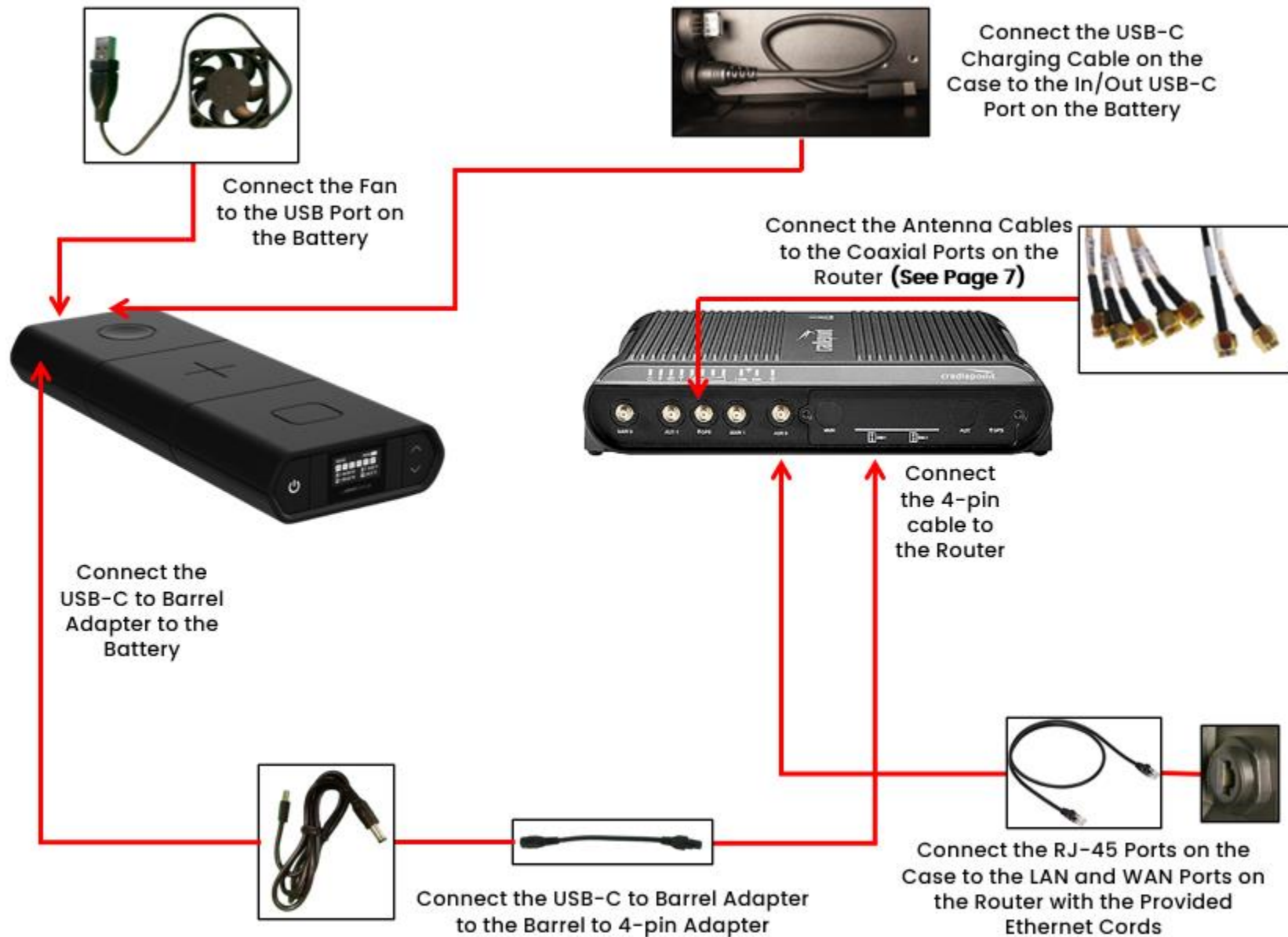Connect the RJ-45 Ports on the Case to the LAN and WAN Ports on the Router with the Provided Ethernet Cords

Figure 4: Connection Diagram for St. Bernard G2

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.

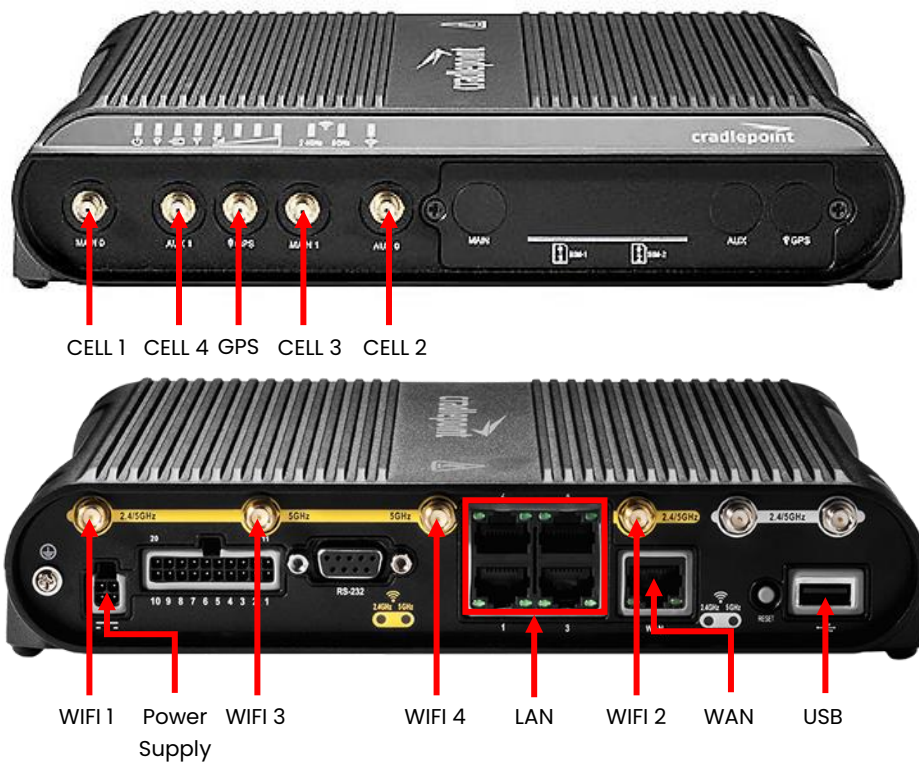| Ericsson IBR1700	
Antenna Cable	Router Terminal
CELL 1	Main 0
CELL 2	Aux 0
CELL 3	MAIN 1
CELL 4	AUX 1
CELL 5	Cell 2A
CELL 6	Cell 2B
CELL 7	Cell 2C
CELL 8	Cell 2D
GPS	GPS
Wi-Fi 1	2.4/5GHz Gold *Left*
Wi-Fi 2	2.4/5GHz Gold *Right*
Wi-Fi 3	5 GHz *Left*
Wi-Fi 4	5 GHz *Right*

Figure 5: Ericsson IBR1700 Connections

Step 2: Connect the power supply to the router.

    A. Connect the power to barrel adapter to the router power supply port and to the USB-C to barrel adapter. Connect the USB-C to barrel adapter to the Power Adapter and plug in the Power Adapter to the Battery, as shown in Figure 7.

Step 3: Connect the fan to the battery.

    A. Plug the USB-A cord from the fan into the USB-A port on the battery, shown in Figure 7.

Step 4: Connect the router to the RJ-45 ports on the case using ethernet cords.

    A. Connect the provided ethernet cords to the LAN ports and WAN port on the router, shown in Figure 5.

    B. Connect the other ends of the ethernet cords from the router to the RJ-45 ports on the case, shown in Figure 6. Keep track of which cord is connected to the WAN port on the router. Consider connecting the WAN port on the router to the right RJ-45 port and the LAN port on the router to the left RJ-45 port.

Figure 6: Connect the router to the RJ-45 ports on the case using ethernet cords.

Step 5: Connect the battery pack to the USB-C charging port on the case.

    A. Connect the USB-C charging port cable from the case to the 65W-In/Out Type-C port on the battery pack, shown in Figure 7.

USB-C2: Out/USB-C to Barrel to Router

USB-C1: In/Charger from Case   FAN

Figure 7: OmniCharge 30C+ Battery Pack Connections

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Step 6: Install the Panel Mount Stickers on the outside of the case.

A. Use the PTA0957 Sticker Sheet shown in Figure 8 to label the RJ-45/Ethernet, USB-C, and USB-A Panel Mounts, as shown in Figures 9-10.

LAN 1	AC Power
LAN 2	DATA
LAN 3	USB-C
LAN 4	USB-A
WAN	DC Power

Figure 8: Panel Mount Sticker Sheet

Figure 9: Right Side of the St. Bernard G2 Case with Stickers installed

Figure 10: Left Side of the St. Bernard G2 Case with Stickers installed

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). Ensure that no antenna cables are running across the top of the router.

Figure 11: Fully Connected 9 in 1 St. Bernard G2 with Ericsson 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 bottom and sides of the cover plate to the case using the fourteen PTA0071B black round head screws provided in the kit, as shown in Figure 12.
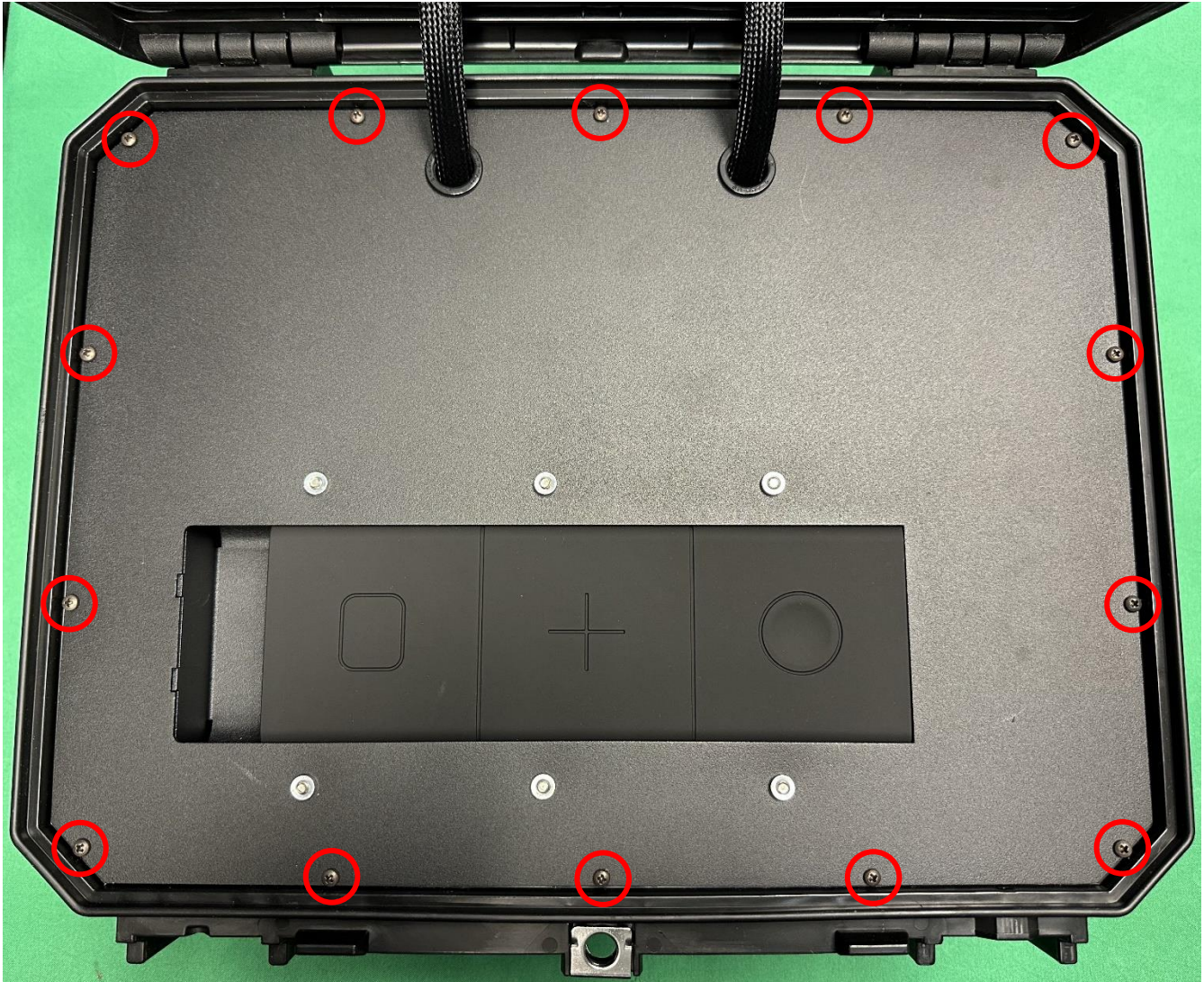

Figure 12: Fasten the cover plate to the case using PTA0071B screws.

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Operational Setup

Step 1: Open the fan and vent caps.

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

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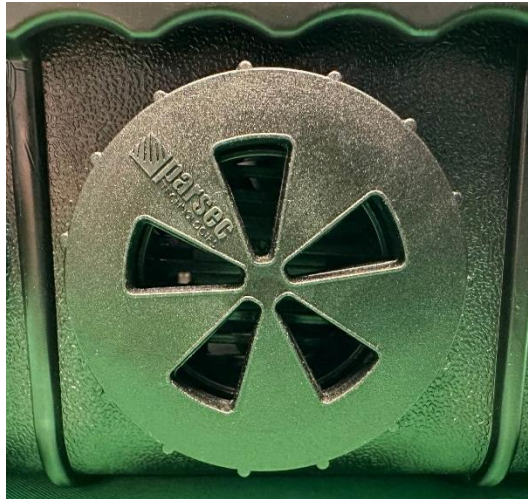

Figure 13: Open the fan and vent caps.

Step 2: Power on the router – St. Bernard G2 only.

    A.   Turn the battery pack ON by pressing and holding the power button for 2 seconds. The display on the battery pack will indicate the battery pack's current battery life (%).

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

    C.   To charge the battery pack, connect the battery pack charger to the USB-C charging port on the outside of the case.

    A.   See Page 15 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 LAN ports on the router.

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Ericsson	Step 4, Page 13

Step 4: Login to Ericsson NetCloud.

    A. This step only applies for Ericsson Routers.

    B. Open a web browser on the computer and type 192.168.0.1 into the address bar. This will bring up the Ericsson NetCloud login, shown in Figure 14.

    C. Login to Ericsson NetCloud. The username is "admin", and the password is found on the router, shown in Figure 15.
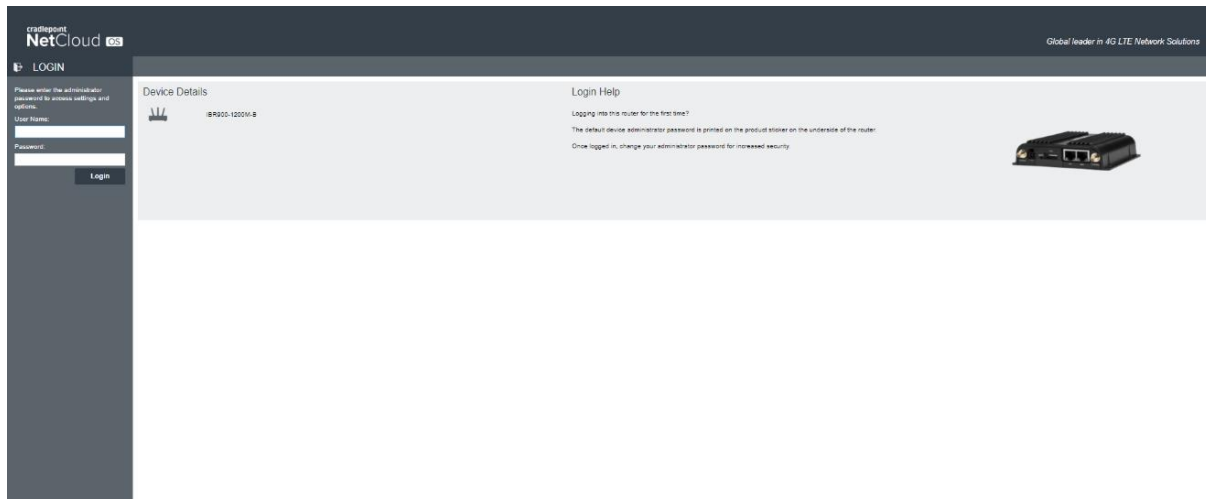

Figure 14: Access Ericsson NetCloud

Figure 15: Ericsson NetCloud Login Password

Antenna setup is complete!

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

Make sure the fan and vent caps are open while using the router.

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Battery Operation and Safety Guidelines

A. To manually power ON/OFF, press and hold the power button $\boxed{\circlearrowleft}$ for 3 seconds. All LED lights/display should turn ON/OFF.

B. Make sure the battery is at least 30% charged before operating. If the battery is not charged, charge the battery using the USB-C Port on the Case.

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

D. 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.

E. The battery will automatically shut off after 12 hours, regardless of user input.

F. 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.

G. Keep out of reach of children.

H. The product may become uncomfortably warm, reaching 104°F (40°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.

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

J. Avoid inserting any foreign objects into the ports.

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

L. Do not operate in temperatures under 50°F (10°C) or over 104°F (40°C).

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

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

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Disclaimer
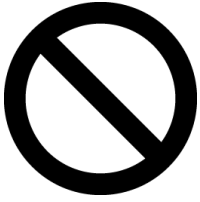
CAUTION

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.

Support Contact & Version

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

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