

# ST. BERNARD

## Installation Instructions

The St. Bernard case antenna is a ruggedized case with a high performance 9 in 1 Parsec antenna built into the cover of the case. The St. Bernard includes up to 4X4 MIMO LTE, 4X4 MIMO WIFI and GPS. This CAT18 antenna works on all common North American LTE bands with high efficiency. It also supports CBRS and LTE LAA. This device is designed to allow for roughly up to 20 devices to simultaneously connect at once.



### **REQUIRED TOOLS**

**Phillips Screwdriver**

**9" Zip Ties**

**Scissors**

### **REQUIRED ACCESSORIES (PRO9SB4L4WG-L OR PRO9SB4L4WG-A)**

**Router: CRADLEPOINT IBR1700-1200M**

**Ethernet Cords: 4pc (Length as required by the customer) (Not required for A version)**

**Power Supply (required for router)**

**Extension Cord (NEMA 5-15 Plug to NEMA 5-15 Socket)**

### **REQUIRED ACCESSORIES (PRO9SB4L4WG-G)**

**Router: CRADLEPOINT IBR1700-1200M**

**Battery: Chargetech 54k AC Battery Pack (OPTIONAL)**

**Ethernet Cords: 4pc (Length as required by the customer)**

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

**Power Supply (required for router)**

## Router Installation:

Note: SMA connectors have a **maximum** torque of 3-5 inch lbs.

### Step 1.

Check the power options available on the case.

- For PRO9SB4L4WG-G: Install the battery on the top cover plate as directed in the "Router Power Options" step.
- For PRO9SB4L4WG-L or PRO9SB4L4WG-A: No Battery Option.

### Step 2.

Install an activated SIM into the Router.

### Step 3.

Thread the cables through the top cover plate. Make sure to not bend the cables when closing the box. (Figure 1)



FIGURE 1

**Step 4.**

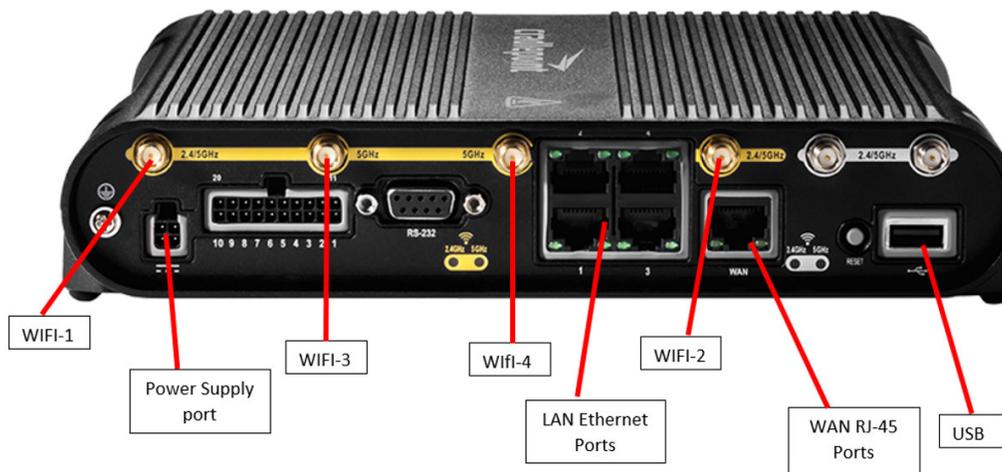
Connect the Antenna cables to the router. Clean all connectors so there is no dust in the terminals. Follow the chart to connect the cables. (Figures 2-4)

S. NO	CABLE FROM ANTENNA	CONNECTOR ON ROUTER
1	LTE1	MAIN0
2	LTE2	AUX0
3	LTE3	MAIN1
4	LTE4	AUX1
5	GPS	GPS
6	WIFI -1	2.4/5GHz
7	WIFI -2	2.4/5GHz
8	WIFI -3	2.4/5GHz
9	WIFI -4	2.4/5GHz

**FIGURE 2**



**FIGURE 3**



**FIGURE 4**

**Step 5.**

Choose the right AC power supply unit for the router and connect it to the router. (Figure 5)



**FIGURE 5**

**Step 6.**

Match the mount holes on the router to the mounting holes on the router mount base plate. Fasten the router to the base using the four 1/4-20, 1/4 inch screws provided in the kit. (Figure 6)

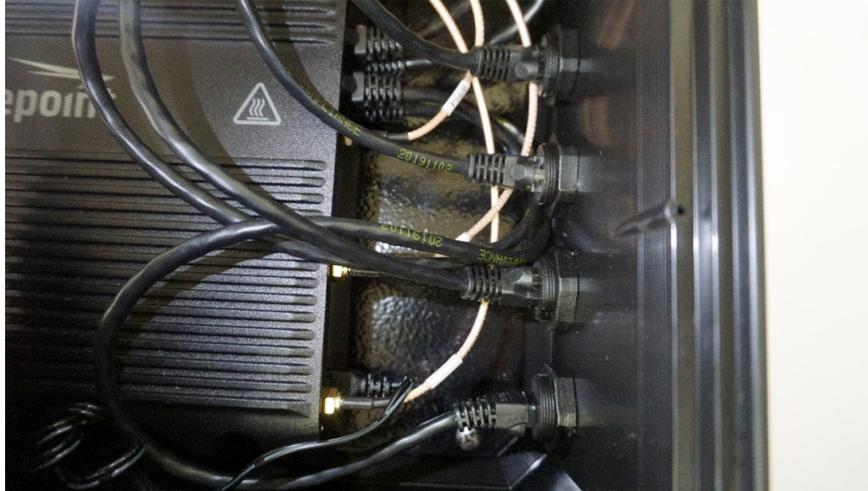


**FIGURE 6**

## Router and Case connection Instructions:

### Step 1.

Choose four ethernet ports on the router that you are going to use the most. (LAN or WAN) Connect ethernet cords from the four you require and connect them to the ports on the case. (It is recommended to choose 1 WAN and 2 LAN) (Figure 7)



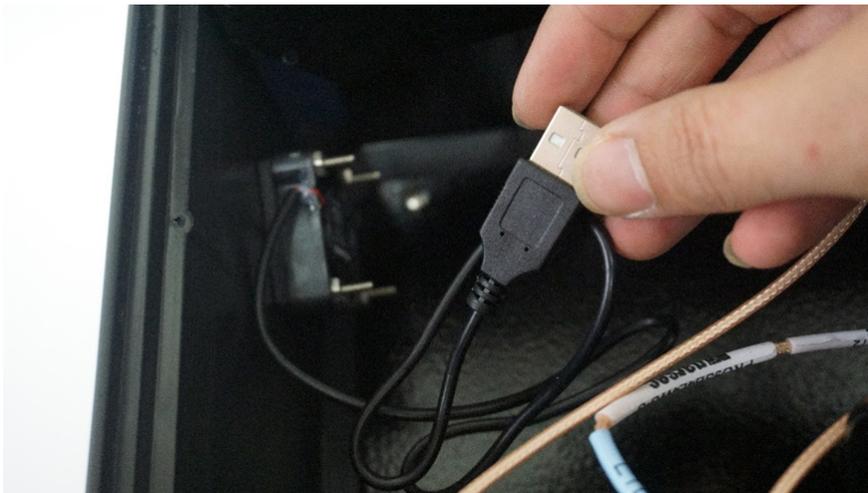
**FIGURE 7**

### Step 2. (PRO9SB4L4WG-G ONLY)

Connect the USB adapter on the case to the battery.

### Step 3.

Connect the fan USB port on the case to the USB ports on the router. (Figure 8)



**FIGURE 8**

## Router Power Options:

### PRO9SB4L4WG-G has the option of a battery.

Parsec provides a battery tray for the Chargatech 54k Battery. To install the Chargatech 54k battery follow the instructions below.

#### Step 1.

Insert the battery in the battery tray. (Figure 9)

#### Step 2.

Place the top cover plate on the battery tray and fasten the battery tray to the top cover plate using nine 6-32, ¼" inch flat head screw provided in the kit. (Figure 10)

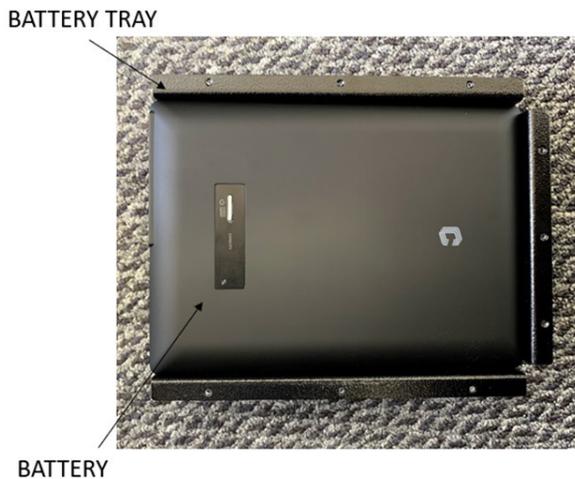


FIGURE 9

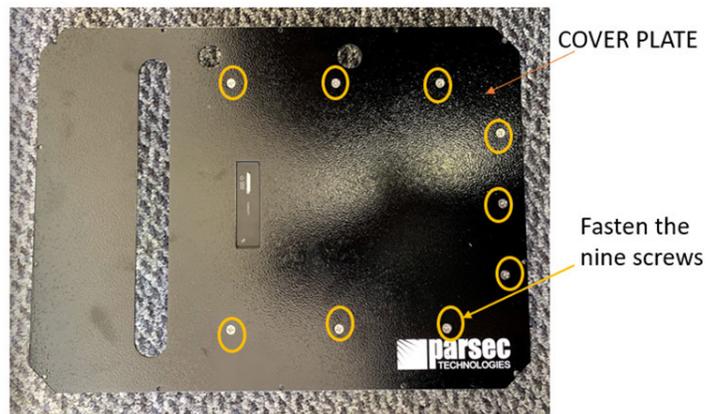


FIGURE 10

#### Step 3.

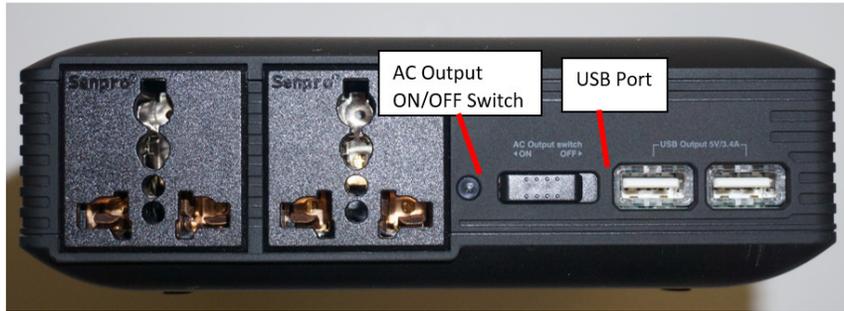
Using the extension cord provided in the kit, connect the power supply unit of the router to the battery AC Port. (Figure 11)



FIGURE 11

**Step 4.**

Connect the DC adapter installed on the case to the DC charging port on the battery. To charge the battery, use the charger provided with the battery and connect the DC barrel plug on the charger to the case. (Figure 12 & 13)



**FIGURE 12**



**FIGURE 13**

**Step 5.**

Make sure the AC switch on the battery is OFF while charging the battery. Turn on the router first before turning on the battery. (Figure 14)



TURN ON THE AC SWITCH

**FIGURE 14**

## Router Power Options (Continued):

**PRO9SB4L4WG-L and PRO9SB4L4WG-A comes with an AC adapter with 16-inch extension cord.**

Parsec provides an AC adapter mounted on the case for L and G versions. For powering the router with the AC adapter follow the instructions below.

### Step 1.

Connect the AC adapter of the power supply unit to the AC adapter on the case.

### Step 2.

Connect one end of the extension cord (NEMA 5-15 Plug to NEMA 5-15 Socket) to the case and the other end to the wall to turn on the router. (Figure 15)



**FIGURE 15**

## Antenna Operation:

### Step 1.

Make sure all cables are properly connected. Check all of the connections and make sure there is no loose connections.

### Step 2.

Before turning on the antenna, always snap the fan and vent caps open. (Figure 16)



FIGURE 16

### Step 3.

Turn on the power source of the router.

**PRO9SB4L4WG-L and PRO9SB4L4WG-A:** Plug in one end of the extension cord (NEMA 5-15 Plug to NEMA 5-15 Socket) to the case and the other to the wall.

**PRO9SB4L4WG-G:** Turn on the main power switch of the battery and turn on the AC switch of the battery. (Figure 17)



FIGURE 17

### Step 5.

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.

### Step 6.

Bring up a web browser on the computer and type 192.168.0.1 into the address bar. You should see the Cradlepoint login. (Figure 18)

### Step 7.

Type the username and password. Username is "admin" by default. The password can be found on the information cutout on the router. (Figure 19)

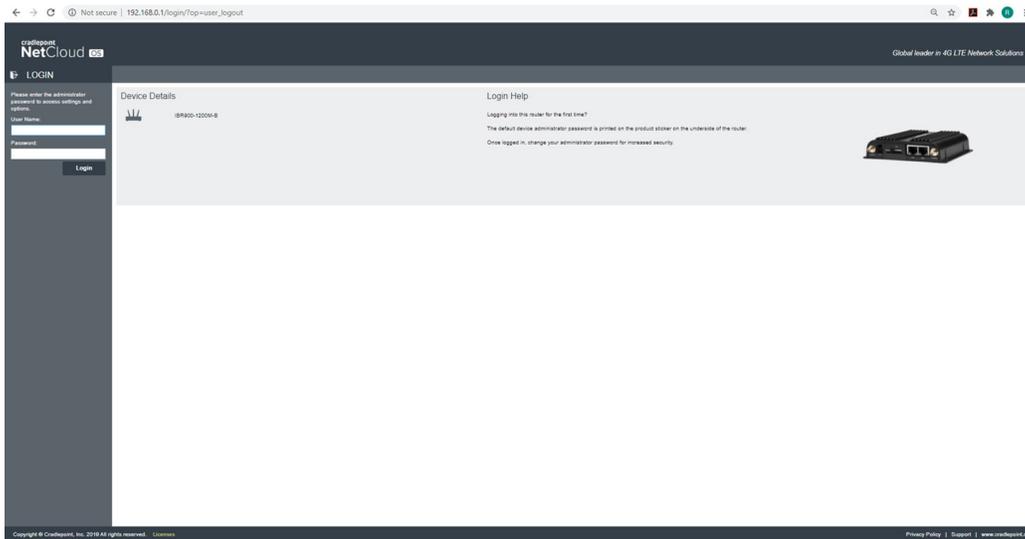


FIGURE 18



FIGURE 19

## Step 8.

In the router, click on Status, Internet, and then Connections in the dropdown menu. You should see options related to SIM cards installed. Select the option with a cellular SIM. (Figure 19)

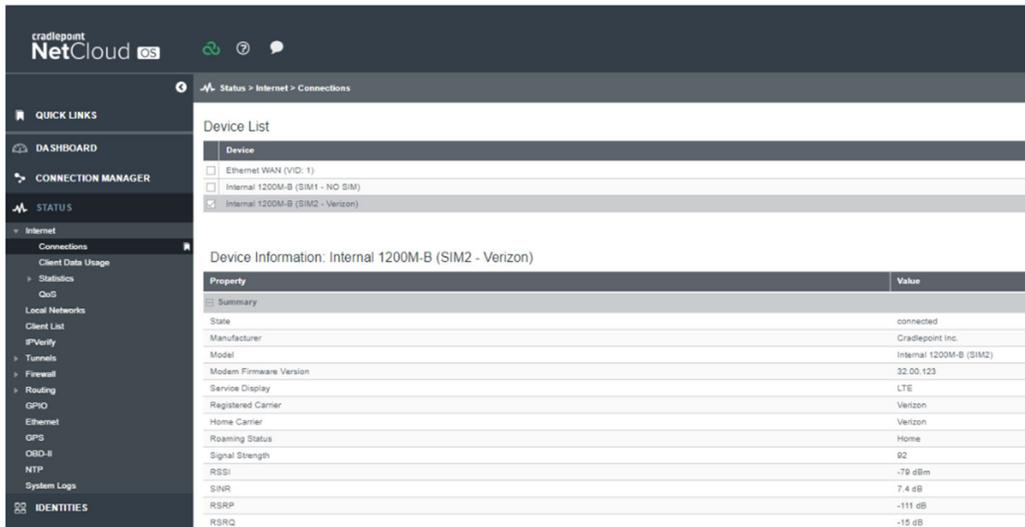


FIGURE 19

## Step 9.

If all of the steps are completed, the antenna should be on and operating. Close the top cover plate using the thread forming screws provided in the kit. (Figure 20)



FIGURE 20

### 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.