

# BEAGLE

PRO5B2L2WG-G

## Installation and Operation Manual

Parsec's Beagle is a low profile five-in-one MIMO LTE, MIMO Wi-Fi, and GNSS external waterproof antenna. This rugged low-profile omni-directional antenna works on most of the common European LTE bands with high efficiency. The Beagle is optimized for LTE isolation.



### REQUIRED TOOLS

**Phillips Screwdriver**

**9" Zip Ties**

**Scissors**

### REQUIRED ACCESSORIES

**Router (select one of the following routers.)**

- CRADLEPOINT IBR900
- CRADLEPOINT IBR600
- AIRLINK MP70

**Ethernet Cords: 2pc (Length as required by the customer) (Not required for A version)**

**ChargeTech 27k Battery 3.0 version**

**Power Supply 12V Cradlepoint Part#: 170717-000**

# Battery and Router Installation:

## Step 1.

Insert the battery into the battery tray. (Figure 1)

## Step 2.

Place the top cover plate on the battery tray and fasten the battery tray to the top cover plate using six 6-32 flat head screw provided in the kit. (Figure 2)



**FIGURE 1**



**FIGURE 2**

## Step 3.

Place the router on the top cover plate and align the mount holes of the router with the mounting holes on the top cover plate. (Figure 3)

## Step 4.

Using four 6-32 flat head screws provided in the kit mount the router on the cover plate. (Figure 4)



**FIGURE 3**



**FIGURE 4**

## Connection Instructions:

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

### Step 1.

Thread the antenna cables through the cover plate. Connect the antenna cables to the router as shown in the table. (Figure 5)

S. NO	CABLE FROM ANTENNA	CONNECTOR ON ROUTER
1	LTE1	MAIN0
2	LTE2	AUX0
3	GPS	GPS
4	WIFI 1	2.4/5GHz
5	WIFI 2	2.4/5GHz

**FIGURE 5**

### Step 2.

Connect the USB connector of the fan to the USB port on the Router.

### Step 3.

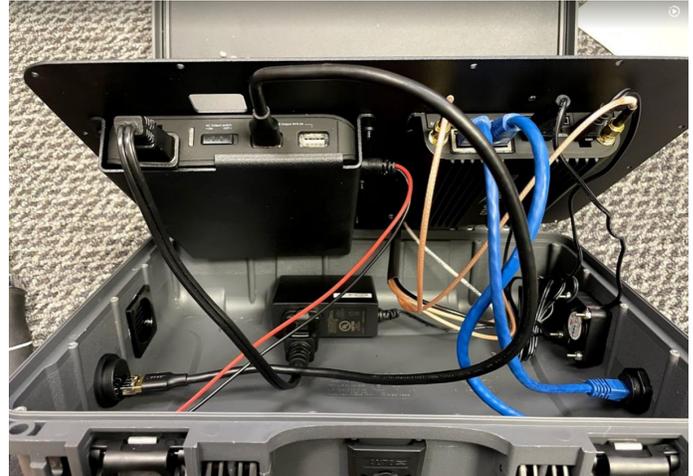
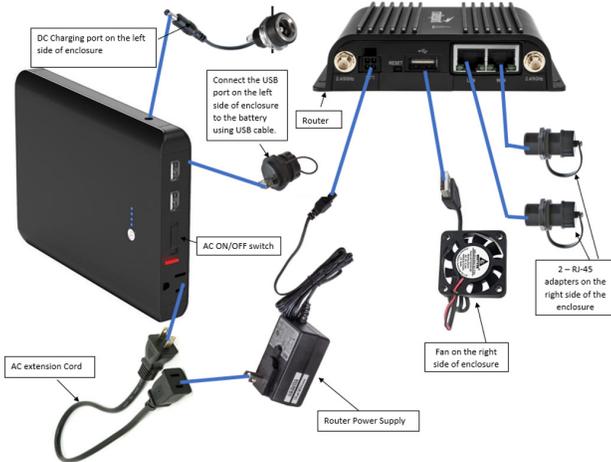
Connect the two ethernet cords from the LAN and WAN on the router to the RJ-45 adapters on the antenna enclosure.

### Step 4.

Connect the DC5521 connector on the case to the battery charging port.

## Step 5.

Connect the 4 pin connector of the power supply to the router.



**FIGURE 6 (STEPS 6-9)**

**Cables Correctly Installed**

**Make sure cables are correctly placed inside the case before properly closing the lid. Make sure there is no stress on the cables.**

## Step 6.

Place the top cover plate on the enclosure and fasten it to the enclosure using the 14 thread forming screws provided in the kit. (Figure 7 & 8)



**FIGURE 7**



**FIGURE 8**

# Antenna Operation:

## Step 1.

Open the Beagle antenna enclosure and check the battery level on the LCD screen. Make sure the power switch is OFF. If the battery level is lower than 25% plug in the battery charger and charge the battery until it is at 100%. Turn OFF the AC switch when charging to switch OFF the router. (Figure 9 & 10)

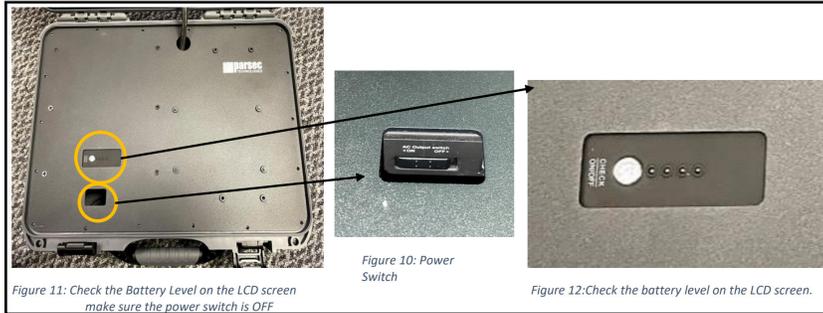


FIGURE 9



FIGURE 10

## Step 2.

Open the fan caps on the left and right side of the antenna enclosure (Figure 11 & 12). Make sure that the antenna is away from the location subjected to any liquid splashing, especially when the caps are open.



FIGURE 11



FIGURE 12

## Step 3.

Turn ON the power switch – Wait for two minutes or until you hear the fan running. (Figure 13)



FIGURE 13

#### Step 4.

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 5.

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 14)

#### Step 6.

Type the username and password. Username is "admin" by default. The password can be found on the information cutout on the router. (Figure 15)

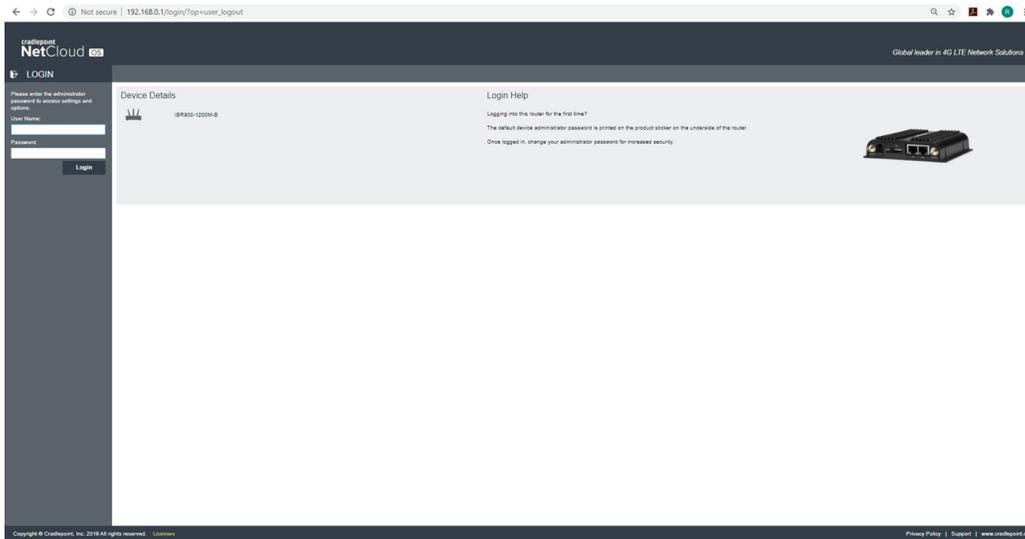


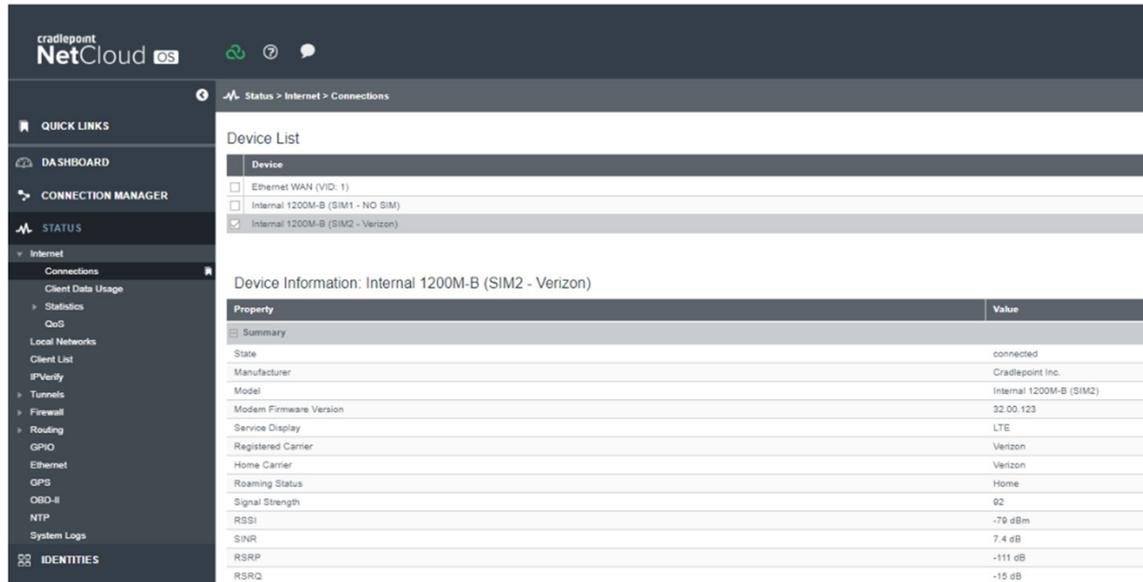
FIGURE 14



FIGURE 15

## Step 7.

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)



Property	Value
<b>Summary</b>	
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	92
RSSI	-79 dBm
SINR	7.4 dB
RSRP	-111 dB
RSRQ	-15 dB

FIGURE 16

## Step 8.

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 17

### 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.