

GOLDEN RETRIEVER

Installation Instructions

The Golden Retriever is a portable, ruggedized case with a high performance 5 in 1 Parsec antenna built into the lid. It is available with MIMO LTE, MIMO WiFi, and GPS. This compact, portable office in a box is perfect for a wide variety of mobile communications. Add a wireless router and battery and this Golden Retriever case antenna will provide on the go connectivity wherever you are. Designed to operate roughly up to 5 simultaneous devices at once.



REQUIRED TOOLS

Phillips Screwdriver

REQUIRED ACCESSORIES (PRO5GR2L2WG-L OR PRO5GR2L2WG-A)

Router (select one of the following routers.)

- CRADLEPOINT IBR900-1200M
- CRADLEPOINT IBR600
- INSEGO SKYUS 160
- SIERRA WIRELESS AIRLINK RV55

Ethernet Cords: 2pc (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)

Electronic Equipment Power Cord (NEMA 5-15 Plug x IEC C13 Socket, SVT)

REQUIRED ACCESSORIES (PRO5GR2L2WG-G1 OR PRO5GR2L2WG-G2)

Router (select one of the following routers.)

- CRADLEPOINT IBR900-1200M
- CRADLEPOINT IBR600
- INSEGO SKYUS 160
- SIERRA WIRELESS AIRLINK RV55

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

Battery: PowerAdd Pilot Pro 2 23000mAH Portable Battery Charger

Ethernet Cords: 2pc (1pc for G1 version. Length as required by the customer)

USB Cords: 1 pc (Length as required by customer. Only for G2 version)

Cradlepoint 2x2 Power to Barrel Adapter (Part #170665-000)

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 PRO5GR2L2WG-G1 or PRO5GR2L2WG-G2: Install the battery on the top cover plate as directed in the "Router Power Options" step.
- For PRO5GR2L2WG-L or PRO5GR2L2WG-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	GPS	GPS
4	WIFI 1	2.4/5GHz
5	WIFI 2	2.4/5GHz

FIGURE 2



FIGURE 3

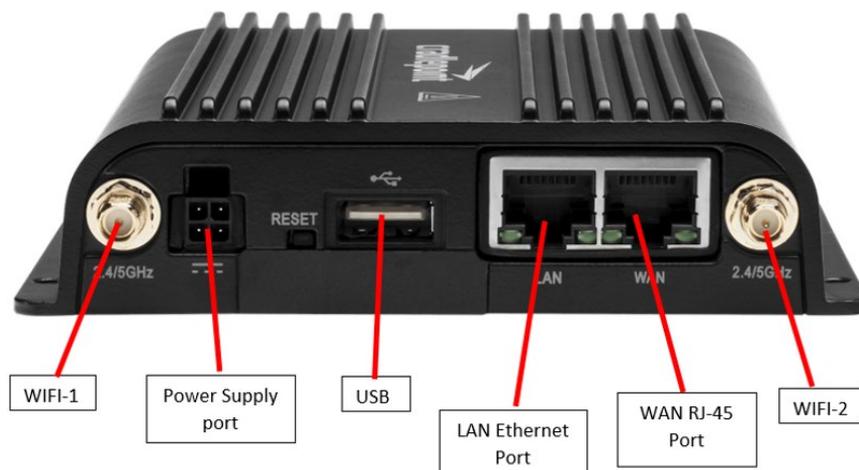


FIGURE 4

Step 5. (PRO5GR2L2WG-G1 OR PRO5GR2L2WG-G2)

Use the Cradlepoint 2x2 Power to Barrel Adapter to connect the router to the battery. Connect one of the switch's barrel connector to the battery and the other to the cradlepoint 2x2 power to barrel adapter. (Figure 5)



FIGURE 5

Step 6. (PRO5GR2L2WG-L OR PRO5GR2L2WG-A)

Choose the correct AC power supply unit for the router and connect it to the router. (Figure 6 & 15)



FIGURE 6



All cables connected to the router

Step 7.

Mount the router onto the router mount plate. Match the holes on the router to the holes on the base plate. Fasten the router using the four 1/4-20, 1/4 inch screws provided in the kit. (Figure 7)

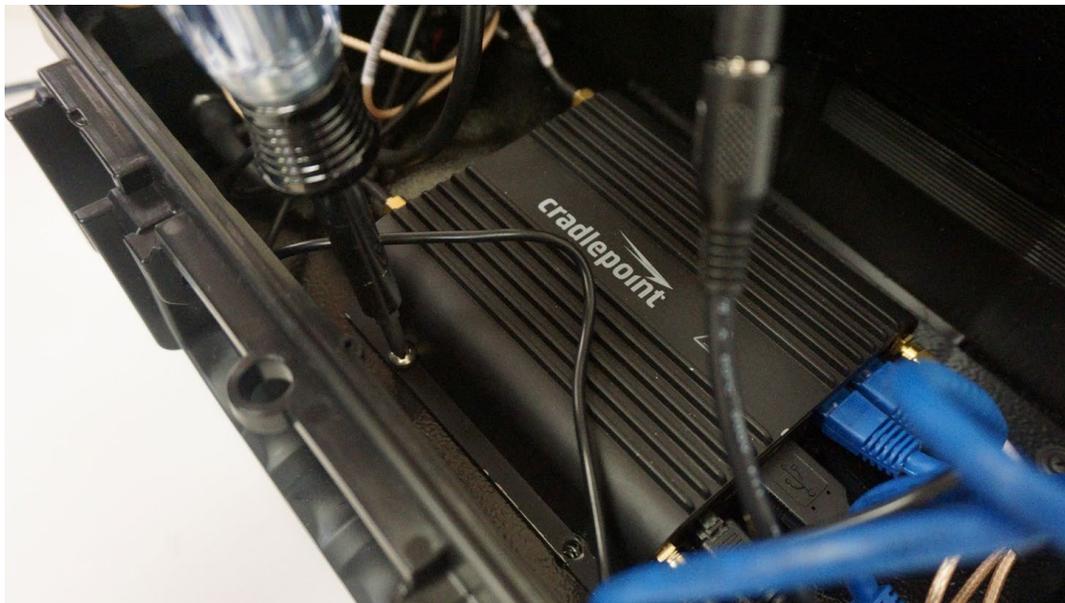
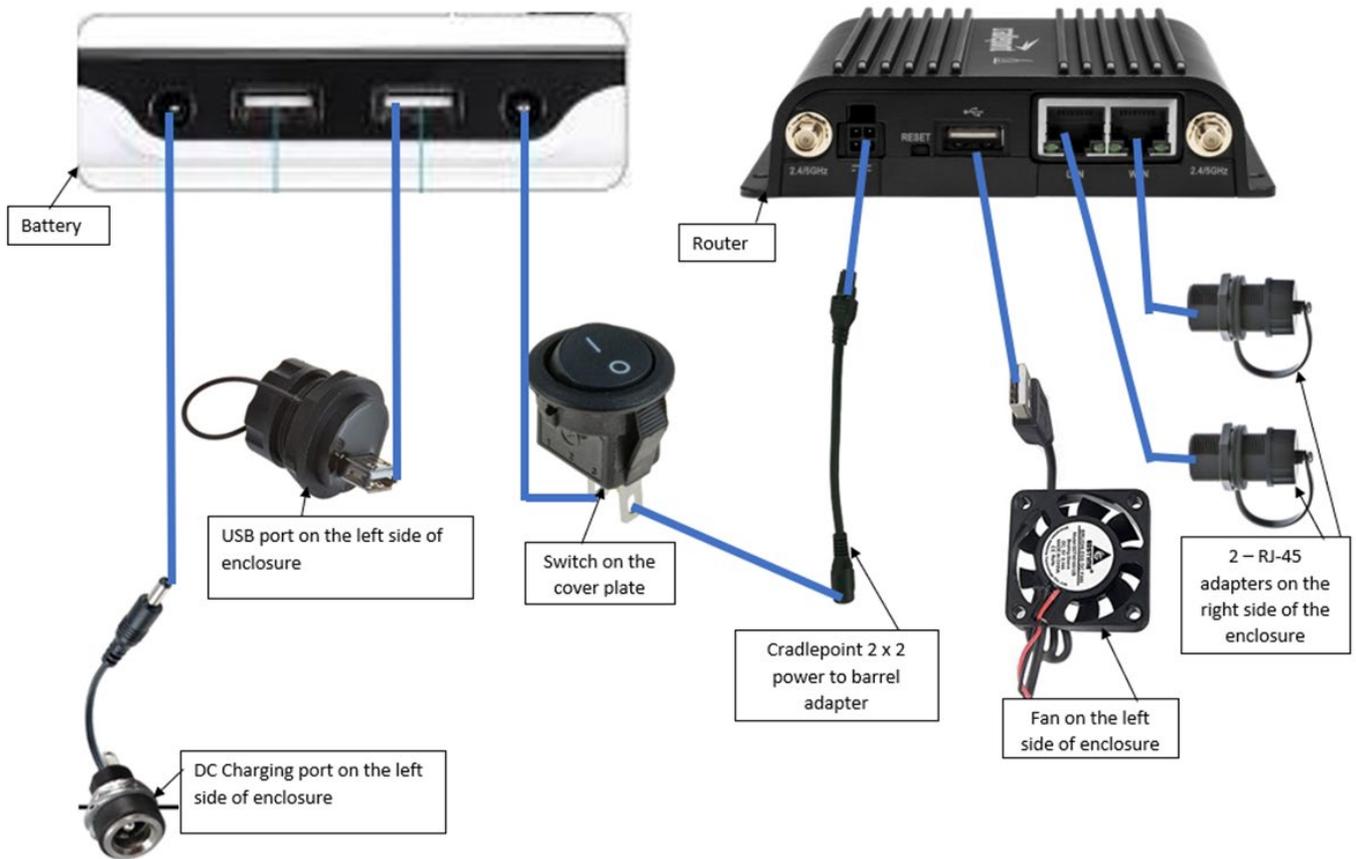


FIGURE 7

Router and Case connection Instructions:



All connections diagram

Step 1.

There are two RJ-45 ports for G2 and L versions and one for the G1 version of the case. Choose which port you want to use for WAN and LAN connectors. Connect one end of the ethernet cords from the router to the RJ-45 ports on the case. (Figure 8)



FIGURE 8

Step 2. (PRO5GR2L2WG-G2 ONLY)

There is one USB port on the case which can be used for charging electrical devices. For charging electrical devices, connect the USB port on the case to the USB port on the battery.

Step 3.

Connect the fan USB port on the case to the USB ports on the router. (Figure 9)

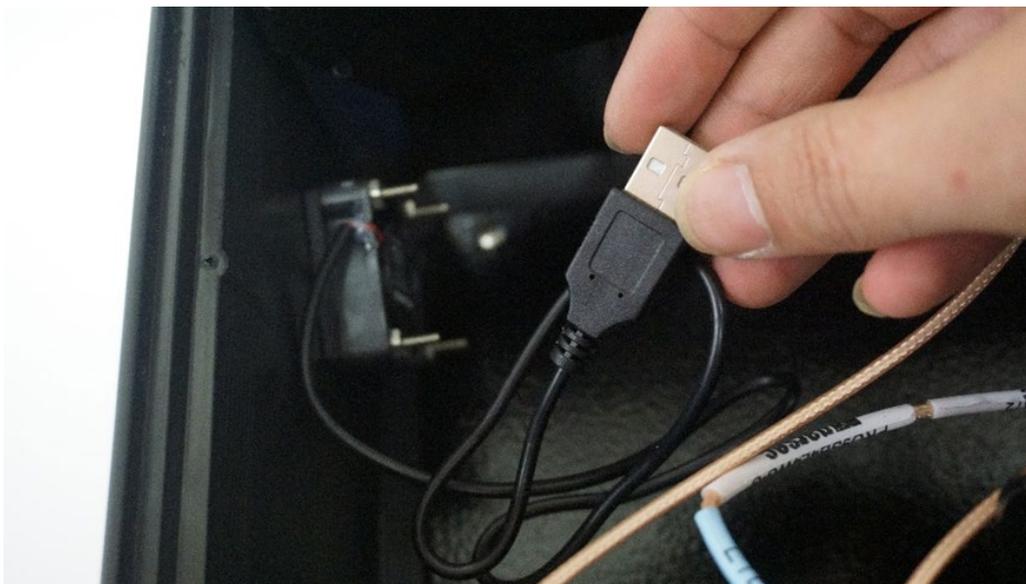


FIGURE 9

Router Power Options:

PRO5GR2L2WG-G1 and PRO5GR2L2WG-G2 have the option of a battery.

Parsec provides a battery tray for PowerAdd Pilot Pro 2 23000mAH Portable Battery Charger. For installing the battery follow the instructions below.

Step 1.

Insert the battery in the battery tray. (Figure 10)

Step 2.

Place the top cover plate on the battery tray and fasten the battery tray to the top cover plate using nine 4-40, ¼" inch flat head screw provided in the kit. (Figure 11)



FIGURE 10



FIGURE 11

Step 3.

Set the battery to supply 12V by pressing and holding the power button for 5 seconds until you see the volts on the screen. Press the button again to set it to 12V. (Figure 12 & 13)



FIGURE 12



FIGURE 13

Step 4.

Connect the power supply unit of the router to the battery OUTPUT port with the DC barrel to DC barrel extension cord provided with the battery.

Step 5.

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.

Step 6.

Connect the USB port on the case to the battery using the USB cord.

Step 7.

Turn ON the power switch to turn the router on. (Figure 14)



FIGURE 14

PRO5GR2L2WG-L and PRO5GR2L2WG-A come with an AC adapter with 16-inch extension cord.

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

Step 1.

Connect the AC adapter of the Power supply unit to the AC adapter on the case using an extension cord.

Step 2.

Connect the IEC C13 Socket end of the Electronic Equipment Power Cord (NEMA 5-15 Plug x IEC C13 Socket, SVT) 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 : Connect IEC C13 Socket end of the Electronic Equipment Power Cord (NEMA 5-15 Plug x IEC C13 Socket, SVT) to the case and the other end to the wall to turn ON the router. Then Turn ON the power source. the router will turn ON and the display lights will start blinking.

PRO5GR2L2WG-G1 and PRO5GR2L2WG-G2: Turn on the main power switch of the battery and turn on the power switch on the top cover plate.

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 17)

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 18)

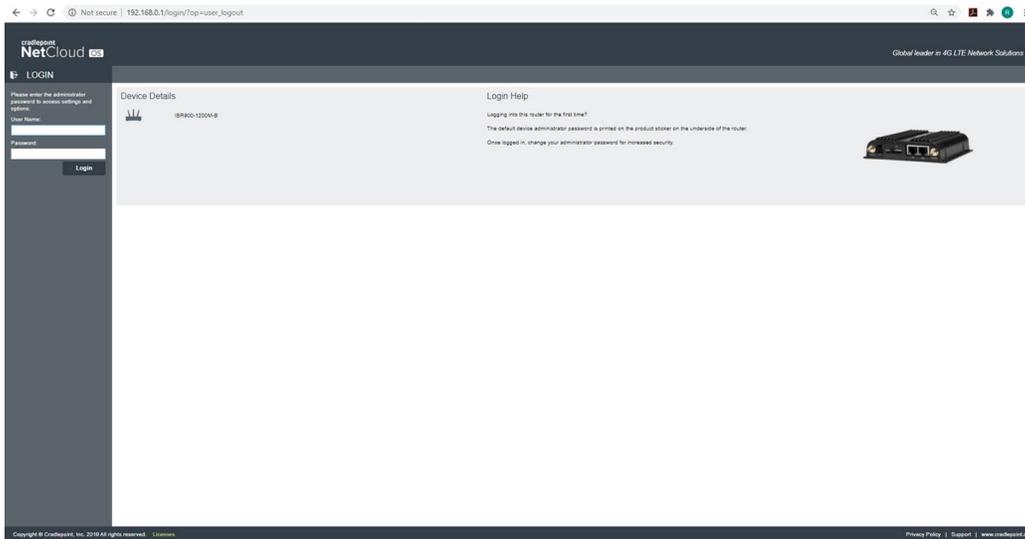


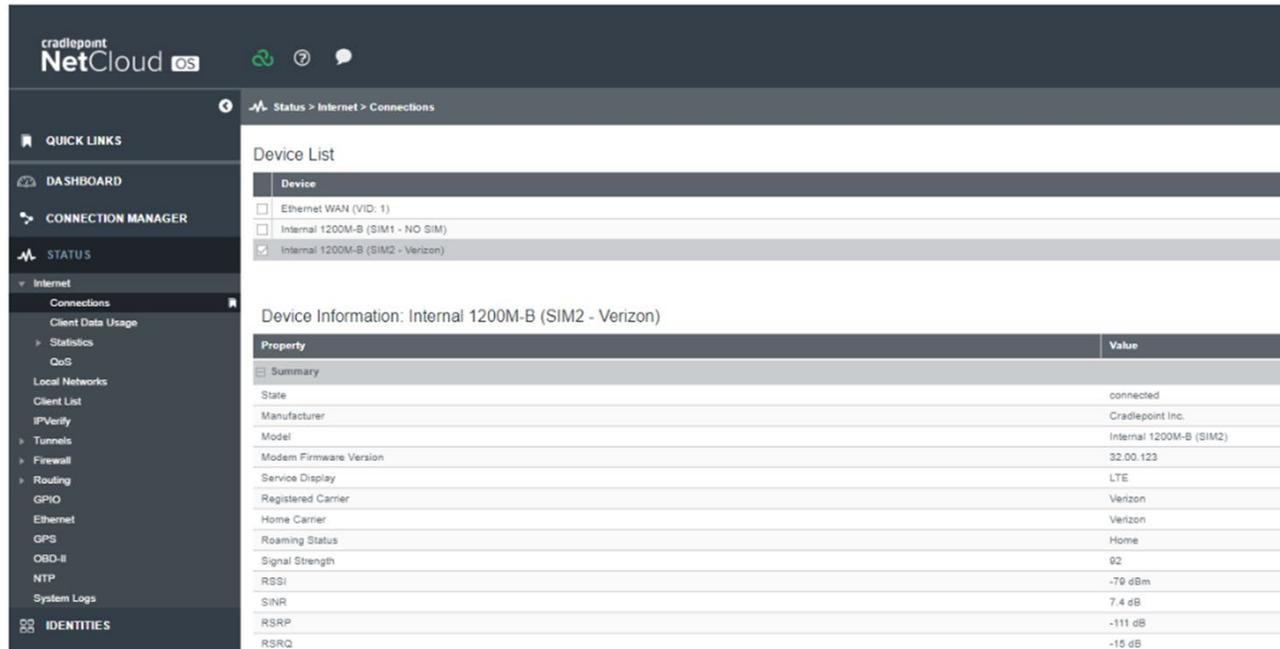
FIGURE 17



FIGURE 18

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)



The screenshot shows the NetCloud OS interface. The breadcrumb trail is 'Status > Internet > Connections'. The left sidebar has 'Internet' expanded to 'Connections'. The main content area shows a 'Device List' with three entries: 'Ethernet WAN (VID: 1)', 'Internal 1200M-B (SIM1 - NO SIM)', and 'Internal 1200M-B (SIM2 - Verizon)'. Below this is the 'Device Information: Internal 1200M-B (SIM2 - Verizon)' section, which includes a 'Summary' table.

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	92
RSSI	-79 dBm
SINR	7.4 dB
RSRP	-111 dB
RSRQ	-15 dB

FIGURE 19

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 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.