

RV Boosted Cellular–WiFi System

Quick Setup Guide

TS007119

Setup overview

The RV Boosted Cellular–WiFi system includes two separate systems that work together to provide stronger signal in your RV, fifth wheel, trailer or van. (Figure 1)

- 1 The **Peplink MAX BR1 mini router** converts cellular internet data to WiFi signal that can be used by laptops, tablets, smart TVs, and other WiFi-enabled devices. The router can be used by itself when available cellular signal is fair or better.
- 2 The **weBoost Drive Reach cellular booster** amplifies cellular signal, giving the Peplink router a stronger internet data connection when available cellular signal is weak or poor.

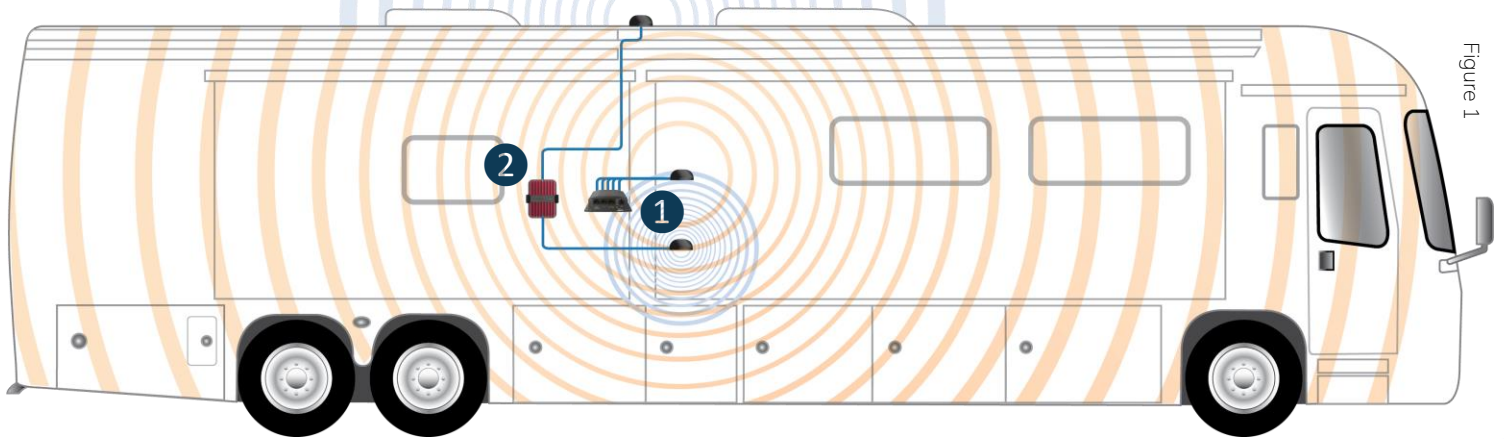


Figure 1

1 Router antenna

The Peplink MAX BR1 Mini router uses one antenna, the **Poynting PUCK-5 2x2 MIMO**. (Figure 2) This antenna both receives cellular signal and transmits WiFi signal.



Figure 2

2 Booster antennas

The weBoost Drive Reach booster uses two antennas:

1. The **donor antenna** sends cellular signal to and from the cell tower. It's installed outside, above the roofline of your RV, trailer, or van. Your system includes your choice of a Poynting PUCK-1 antenna, a Top Signal OTR mast antenna, or a 26-inch or 38-inch RFI whip antenna. (Figure 3)
2. The **broadcast antenna** is a Poynting PUCK-1. (Figure 4) It sends cellular signal to and from the Peplink router and other cellular devices.



Figure 3



Figure 4

Quick Setup continued:

Kit contents

Peplink MAX BR1 Mini cellular-WiFi router



Peplink
MAX BR1 Mini
router



AC/DC
wall outlet
power supply

Tip:

Keep the product documentation and (if possible) the packaging from the manufacturer. These have important information for technical support and reordering.

weBoost Drive Reach cellular booster



weBoost
Drive Reach
booster



Drive Reach
mounting
bracket



120V AC/12V DC
wall outlet
power supply



12V DC
socket
power supply

Poynting PUCK-5 antenna



Poynting PUCK-5 MIMO antenna
with 5 x 6.6' coax cables
& mounting components

Poynting PUCK-1 antenna



Poynting PUCK-1 SISO antenna
with 6.6' coax cable
& mounting components

Top Signal 5G OTR antenna



Top Signal 5G OTR antenna
with 11.3' coax cable, mast
extension & mounting hardware

Your boosted cellular-WiFi system includes one donor antenna for the cellular booster—your choice of a Poynting PUCK-1, Top Signal 5G OTR, or RFI 26" or 38" whip.

RFI 26" whip antenna



RFI 26" antenna with
spring mount, 16.4' coax cable
& 3-way mount

RFI 38" whip antenna



RFI 38" quick-release with
spring mount, 16.4' coax cable
& 3-way mount

Quick Setup continued:

weBoost Drive Reach setup

There are three components to install with the weBoost Drive Reach cell signal booster:

For general information about setting up the weBoost Drive Reach and the antennas, follow the manufacturers' instructions.

1 Outside donor antenna

- The **Poynting PUCK-1** antenna has a 6.6' coax cable. Attach the antenna to the roof of your RV, trailer, or van with the included 3M® adhesive pad, pole-mount bracket, magnetic base, or spigot. (See the *PUCK-1 user guide for installation instructions*.)
- The **Top Signal 5G OTR** mast antenna has an 11.3' coax cable and four mounting height options. Its threaded base will fit a standard $\frac{3}{8}$ " x 24-thread CB mount; it also includes a three-way rail mount. The cylinder at the top of the mast should be above the roofline and have a clear line of sight in all directions. (See the *Top Signal 5G OTR installation guide*.)
- The **RFI 26" and 38"** whip antennas have 16.4' of coax cable. The entire length of the antenna above the spring mount needs to clear the roofline of your RV, trailer, or van. Attach these antennas to a ladder or rail using the included 3-way mount. The 26" antenna includes a barrel connector to complete the connection to the booster.

Insert the connector at the end of the cable into a $\frac{1}{4}$ " hole or other opening. Pull the cable behind interior panels and appliances and connect it to the booster's **OUTSIDE ANTENNA** connector. **Do not pinch, kink, loop, or coil the cable.**

2 weBoost Drive Reach booster

The booster needs to be placed where it can reach the coax cables from outside and inside antennas and where it has access to a 120-volt AC power outlet or a 12-volt DC power socket.

This system includes a snap-in mounting bracket if you want to attach it to a wall or other flat, drillable surface. (Figure 5)

The booster kit includes an outside magnet-mount antenna and an inside low-profile antenna. (Figure 6) These antennas are not used with the RV Boosted Cellular-WiFi system, but you can install them in a car or truck and move the booster between your personal vehicle and your RV, trailer, or van.



Figure 5



Figure 6

3 Inside broadcast antenna

The **Poynting PUCK-1** antenna with 6.6' coax cable attaches to the **INSIDE ANTENNA** connector on the weBoost Drive Reach. Place this antenna within a few inches of the router's PUCK-5 antenna. **Do not pinch, kink, loop, or coil the cable.**

Tip:

The Peplink router can be used by itself when available cellular signal is excellent, good, or fair. Use the weBoost Drive Reach booster to improve signal for the router when available cellular signal is weak or poor. Compare your data speed with the booster powered on and powered off using a smartphone app like Speedtest by Ookla.

Quick Setup continued:

Peplink MAX BR1 Mini router setup

1 Install your SIM card

- Use a small Phillips screwdriver to loosen the **Cellular SIM cover** at the end of the router. Rotate the cover to expose the SIM slots. (Figure 7)
- Insert an activated nano SIM card into **Slot A**, beveled corner first and the gold circuit side facing down. Push the card into the slot with your fingernail until it clicks into place. (Figure 8)
*If you use a second card in **Slot B**, insert it beveled corner first with the gold circuit side facing up. Push until it clicks into place.*
- Rotate the Cellular SIM cover back into position over the SIM slots. Hand tighten the cover with the Phillips screwdriver.



Figure 7



Figure 8

2 Attach the Poynting PUCK-5 antenna

- Attach the antenna's two purple **LTE** connectors to the router's threaded **Main** (top left) and **Diversity/Aux** (top right) connectors and hand tighten them. (Figures 9 & 10)
- Attach the antenna's two green **WiFi** connectors to the router's threaded **Wi-Fi Antenna A** (bottom left) and **Wi-Fi Antenna B** (bottom right) connectors. Be certain the WiFi connectors' reverse-polarity adapters are attached to the cables before making the connection. Hand tighten. (Figures 9 & 10)
- Attach the antenna's blue **GPS** connector to the router's threaded **GPS** connector and hand tighten it. (Figures 9 & 10)

Do not pinch, kink, loop, or coil the cables.

The router also includes 4 paddle antennas (2 × LTE, 2 × WiFi) and a GPS antenna with 18' of coax cable. The PUCK-5 replaces all these antennas; they are not used in this setup.

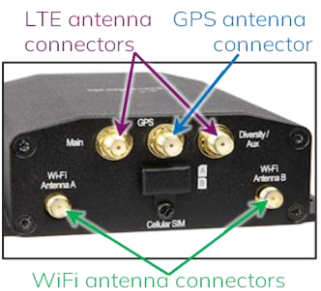


Figure 9



Figure 10

3 Power up the router

- Connect the power supply to the router's **DC IN** port. (Figure 11) The release clip must be facing up for the connector to click into place. Plug the other end of the power supply into an AC wall outlet.
- Once the router is connected to a power source, the **Status** light will turn red. Within 3 to 5 minutes, all three lights—**Status**, **Wi-Fi**, and **Cellular**—should turn green, indicating that the router is functioning properly.



Figure 11

Quick Setup continued:

4 Connect to the router's default WiFi network

- Open the WiFi settings on your computer, tablet, or smartphone. Find and connect to the **PEPLINK_xxxx** network, where xxxx is the last 4 digits of the router's serial number found on the label on the bottom of the router. (Figure 12)
- Use the **AP Password** on the label on the bottom of the router to connect to the WiFi network. The password is all uppercase with no dashes or spaces.



Figure 12

5 Log into the router and change the passwords

The router is administered through a web-based dashboard.

- Open a web browser (like Google Chrome, Apple Safari, Mozilla Firefox, or Microsoft Edge) on your computer, tablet, or smartphone. In the address bar at the top of the browser, type **192.168.50.1** and press *Enter*. (The browser may warn you that you're connecting to an insecure link; allow it to proceed anyway.)
- At the Peplink login screen (Figure 13), enter the default username **admin** and default password **admin** and click *Login*. Both entries are lowercase.
- You'll be prompted to change the password you'll use to log into the dashboard and administer the router. (Figure 14) Choose a strong password (passwords-generator.org can help), write it down, and keep it in a secure place. Do not give this password to anyone.
- You'll next be prompted to change your WiFi AP password. (Figure 15) This is the password you'll use to connect computers, tablets, and smartphones to the router's WiFi network. Choose a strong password; share it only with others who are authorized to use your WiFi network (which is created from your cellular data plan).
- After you change the WiFi AP password, the router will reboot, and your device will be disconnected from the WiFi network. Open the WiFi settings on your device and remove (or "forget") the Peplink network. (See powerfulsignal.com/forget for instructions on how to do this.)
- After the router has rebooted (see Step 3), connect your device to the Peplink WiFi network using your new WiFi AP password (see Step 4).

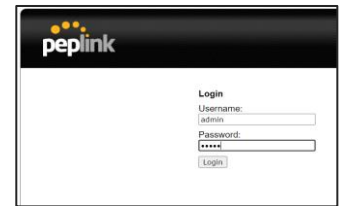


Figure 13

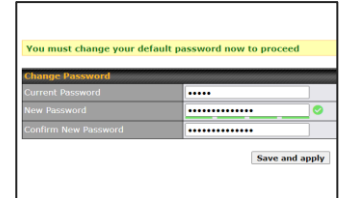


Figure 14

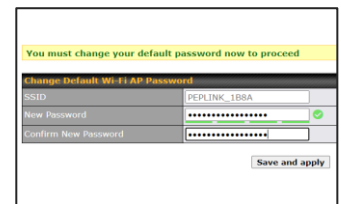


Figure 15

Advanced settings & resetting your router


- Advanced router settings are available via the router's web-based dashboard. Connect your device to the router's WiFi network, open a web browser, and go to **192.168.50.1**. Log in with the admin password you created in Step 5.
Modify these settings only if you are familiar with them and how they work.
- To perform a factory reset on your router, insert the opened end of a paperclip into the hole above the  symbol next to the power connector. (Figure 16) Gently push the paperclip into the hole and hold it there until the **Wi-Fi** and **Cellular** lights have gone out and the **Status** light has turned solid red. The router will reboot in its original, default configuration; follow the instructions in Steps 4 and 5 to set it up again.



Figure 16