

## **SolidRF Terrain Super Cell Phone Booster Manual**

If you have any questions or concerns when installing or operating your cell phone booster, please email us:

**[Support@SolidRF.ca](mailto:Support@SolidRF.ca)**

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## Working Diagram (How It Works)



1. The outdoor antenna catches the signal from the tower.
2. Sends outside signal to the booster through a coax cable.
3. The booster amplifies the signal then rebroadcasts the signal indoors to all mobile devices within range.
4. The system also works in reverse; amplifying outgoing signal back to the tower.

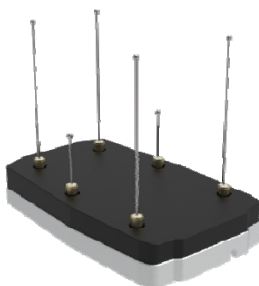
The **size** and the coverage area and the **strength** of the boosted signal are directly related to two key factors:

1. Signal strength received by the outdoor unit. So, setting up the outside unit where the signal is the strongest will provide the best results.
2. Distance of **separation** between the outdoor unit and the indoor antenna.

## Package Contents

The kit includes the following items:

1. Booster;
2. Inside Antenna;
3. Power supply;
4. 10ft RG316 cable, for connecting the outdoor unit and indoor unit;



Booster



Inside Antenna

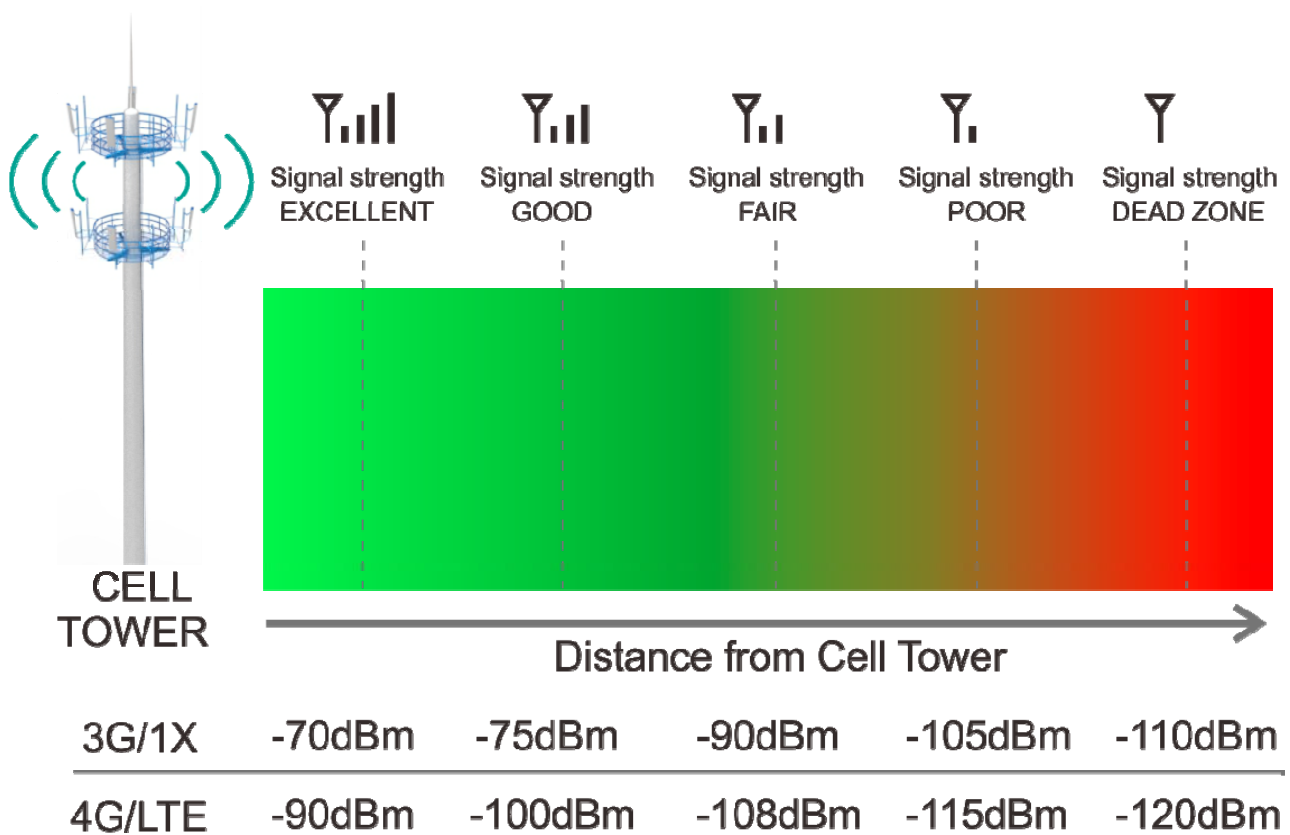


AC/DC  
Power Adapter



RG316 Cable

## Signal transmission loss and power level



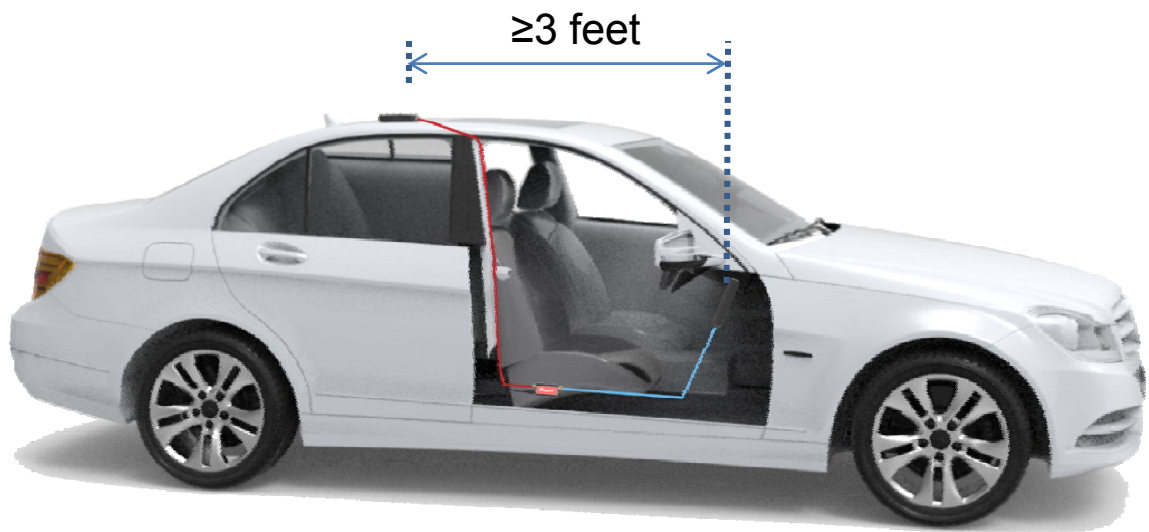
## Coverage area ability

**Note:** FCC regulations limit the amplification of all cell phone boosters in order to prevent damage to the telecommunications infrastructure. Therefore, the maximum coverage area of a booster depends on the original power level of the signal captured by the outdoor unit.

**⚠ Notice:** Not recommended when outdoor signal strength is less than -110dbm(3G/1x) or -120dBm(4G/LTE). The resulting coverage area of the boosted signal will be prohibitively small.

Power Level at the Outdoor Antenna Location	Main Antenna Coverage Area (radius around antenna)
Strong (5 bars on the cellphone)	20 ft
Medium (3~4 bars on the cellphone)	10 ft
Weak (1~2 bars on the cellphone)	6 ft

## Step1: Study your RV and make a installation planning



In order to achieve the best signal coverage effect, there is a certain distance requirement between the indoor and outdoor units. Make sure the inside and outside units are facing away from each other.

First determine the location of the inside antenna. It should be the place you use your cell phone signal most of the time.

Then choose the location of the outside antenna. It should be in front or rear on the roof, has the most distance from the inside antenna location. Also need consider how the route the cable inside.



## Step2: Outdoor Antenna Installation

### Option A : Outside Roof Mount (Best Choice)

Determine where you want to have the outside antenna on your RV. Mount outside antenna on the roof.



## Option B : Rear Compartment Cover Mount (Second Choice)

Mount outside booster to rear compartment cover



NOTE: Keep in mind to stay below the max height limit allowed by law, which varies from state to state (generally 14' in western states and 13'6" in eastern states).

### Step3: Cable Route & Booster Mount

Determine where you want the cable to enter the RV. NOTE: With this option, we recommend doing a 'soft install' before drilling the hole. Set up the system by routing the cable through an open door or window, completing the setup instructions, verifying the system works as desired, and then drilling the hole.

Option A: Using existing cable entry point

Option B: Through the slider on your RV (using the slider gasket as a seal).

Option C: Drill a hole.

Find a location to place the booster.

NOTE: We recommend in a cabinet near a power source. Be sure it's in a location that the 20' RG-58 cable can reach.