HiBOOST® Boost Your Bars

User Manual

Home Mobile Signal Booster

Home Ultra

3150 Premier Drive,Suite 130,
Irving, TX 75063
(972) 870-5666
service@hiboost.com
www.hiboost.com

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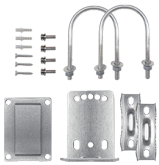


Accessories

NOTE: Available accessories can be purchased through HiBoost.com

Warning: Un-authorized antennas, cables, and/or coupling devices are prohibited by new FCC rules. Please contact FCC for details: 1(888)-CALL-FCC

Introduction

The HiBoost Home Ultra is engineered for professional installation in residential, office, and light-commercial environments requiring robust in-building coverage. Delivering up to 72 dB system gain and coverage up to 10,000 sq.ft, this amplifier ensures stable signal performance across all major U.S. and Canadian carriers.

Its high-linearity amplifiers and wide dynamic range maintain clear, interference-free communication even in fringe-signal areas. Automatic and manual gain controls allow precise optimization, while remote diagnostics and monitoring via the HiBoost Signal Supervisor platform simplify maintenance.

The Home Ultra is fully compatible with 5G DSS, 4G LTE, and legacy standards, offering reliable voice and data performance for multi-user environments.

Create a ticket or chat via SignalSupervisor app

(972) 870-5666 (M-F from 9 am – 5 pm CST)

service@hiboost.com

www.hiboost.com

App Introduction

The SignalSupervisor app enables users to view supported frequency bands and their amplified power data (gain), ensuring optimal booster configuration.It also offers installation assistance for quick and accurate setup of the signal booster.

1.1 App Functions

Remote Monitoring: View device status in real-time and remotely switch frequency

Documentation Access: Access product specifications and installation videos for corresponding products (excluding industrial products).

Online Technical Support: Seek technical assistance from customer service via work orders or online chat.

Community Interaction: Share user experiences, post product reviews, and engage in interest group discussions.

Installation Assistance: Maximize device effectiveness by adjusting indoor and outdoor antennas based on output power changes.

1.2 Device Details

On the device details page of the app, users can view the supported frequency bands, gain, output power parameters, and check the device's usage status.

Note： The SignalSupervisor app strictly protects user privacy and does not collect any personal information. It is solely used for viewing device status, assisting with installation, and obtaining technical support, without accessing any personal information from users, ensuring the security and confidentiality of user data.

Gain: Refers to the degree to which the device amplifies the signal. The higher the gain, the better the signal transmission distance and quality.

Output Power: Refers to the size of the signal coverage area. The higher the output power, the greater the coverage area and signal strength.

LTE700: This refers to the frequency band used by the repeater station. For more details, please refer to the table on page 8.

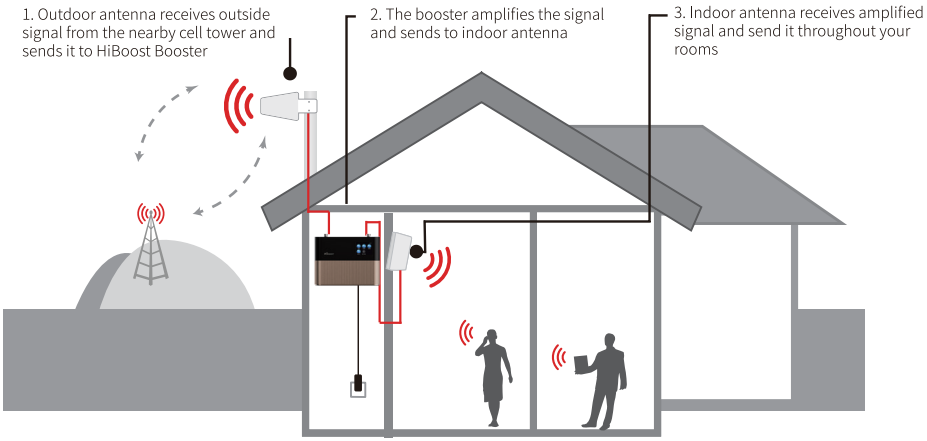
Coverage Performance: In the app, “Super" indicates that the current repeater station's coverage performance is satisfactory, with a strong and stable signal; “Good " indicates that the coverage performance is somewhat lacking and may require adjustment or optimization to improve signal quality.

How HiBoost booster works

General Working Principle:

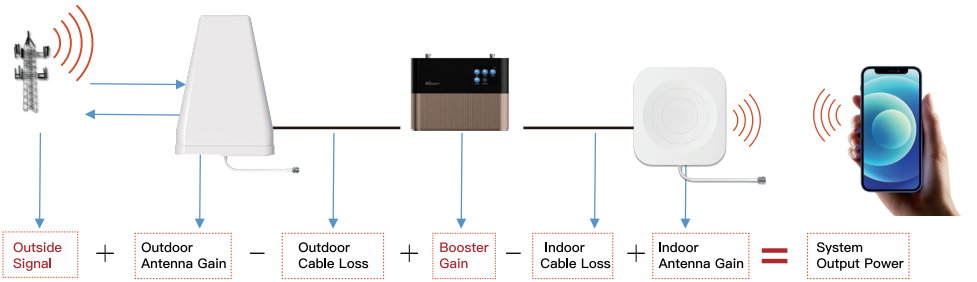
Before we start any of the two ways, please allow us to spend 3 pages to make you understand how the booster system works for you.

※ Please do spend sometime to read it fully, as it is crucial to get full bars for your rooms.



Vice versa, indoor antenna receives cellphone signal and sends to the booster
The booster then amplifies the signal and sends it to outdoor antenna
Outdoor antenna sends signal to the cell tower
Then you can make phone calls and internet streaming.

Working Principle in Formula



Out of the Formula:

Outside Signal: To be received by outdoor antenna from cell tower

Outdoor Antenna Gain: The gain of outdoor antenna

Outdoor Cable Loss: The loss of the outdoor cable

Booster Gain: The actual working gain of the booster

Indoor Cable Loss: The loss of the indoor cable

Indoor Antenna Gain: The gain of indoor antenna

For example:

-77dBm + 11dBi - 4.5dB + 72dB - 2dB + 7dBi = 6.5dBm (System Output Power)

Since the figures in **Black** color are fixed when you finish the purchase, thus the **RED** figures of

1. Outside Signal

2. Booster Gain will play a vital role in reaching the best output power during the install, especially when we know the FCC limits the booster system values.

So the user guide is focused on:

1. Getting the best outside signal.
2. Keeping the maximum booster gain.

More notes on how to keep the maximum booster gain

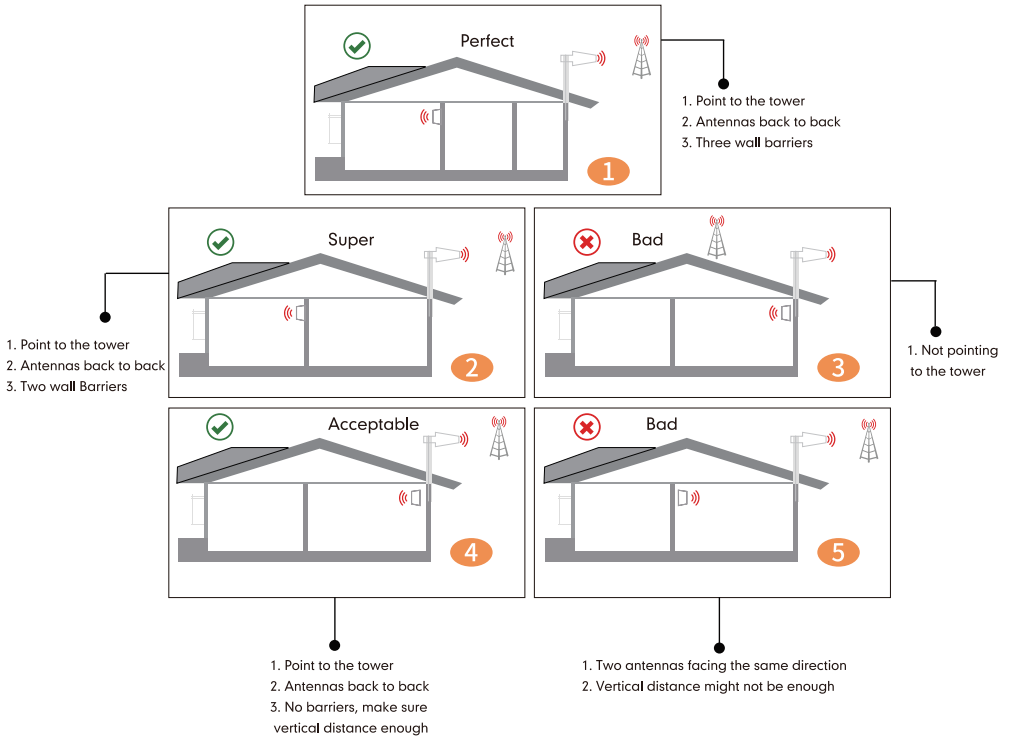
The loop back from the outdoor antenna to the indoor antenna will reduce the gain, so the principle to keep the maximum booster gain is to avoid the loop back from the outdoor antenna to the indoor antenna.

1) Increase the distance between the outdoor and indoor antenna, generally the same vertical distance generates more loss than horizontal, and to follow easily, a Typical Required Distance Between Outdoor and Indoor Antenna Over 30 feet (10 meters) horizontal distance or 13 feet (4 meters) vertical distance.

2) The outdoor and indoor antennas shall be back to back.

3) Use barriers between the indoor and outdoor antenna.

※ Please note: This separation is not an absolute mandate. The idea is to isolate the outdoor antenna from the indoor antenna.



Notes about LCD Display

These are instructions that will allow users to install a Barsguard cell phone booster using the LCD Display.

Following LCD status indicators and control buttons on the booster.

DL Output Power Amount: Indicates the amount of DL output power for this frequency band. 12dbm is the best .

Band: Shows the working frequency bands the booster is operating on.

DL Output Power Status: Indicates the status of DL output power for this frequency band.

Details: Click the corresponding frequency band (the hot area range is the entire instrument panel + text) to enter the frequency band parameter details page;

Reset Screen: Click on the screen to turn off the screen immediately, and the touch screen lights up; if there is no operation within 3 minutes, the screen turns off, and the screen is turned on again to display the home page by default.

Frequency band status: full gain status (normal status, blue), weak oscillation status (yellow), oscillation shutdown status (red), and user active shutdown status (gray).

BLUE: Blue icon with ULN/AOL (Normal/Overload) indicates that a band is working correctly with maximum allowable gain.

YELLOW: Yellow icon with OSC (Oscillation) indicates band gain reduction because of a slight self-oscillation condition. Due to self-oscillation issue, please check the antenna system. Reinstall antennas and increase the isolation between outdoor and indoor antennas, and then turn the booster on to reactivate the band and maximize performance. After the proper isolation is done, the yellow icon will return to blue.

Note: when the icon is yellow, the band still works normally, but the gain is reduced.

RED : Red icon with SHDN (Shutdown) indicates a band has been shut down because of a strong self-oscillation condition or an over load condition (You could click the icon to see which condition now is). 1. For the strong self-oscillation condition, please check distance and direction of outdoor antenna and indoor antenna, increase the isolation of both antennas. After the isolation is enough, the red icon will return to blue upon reboot. 2. For the over load condition, It's because of that the input signal is too strong, please adjust outdoor antenna's direction to reduce the strength of the input signal, then turn the booster on to reactivate the band. When the gain is reduced enough, the red icon will return to blue upon reboot.

GRAY: Gray icon with DIS (Disabled) indicates band has been disabled..

Booster Light Patterns

COLOR	INDICATION
Blue	Band works correctly with maximum allowable gain
Yellow	Band gain reduction because of a slight loopback condition
Red	1. Band has been shut down because of a strong loopback condition
	2. Band has been shut down because of an overload condition
Gray	Band has been disabled.

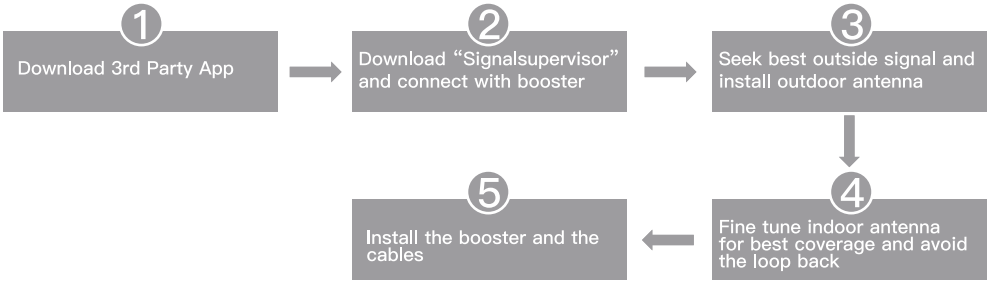
Bands contained in the Gauges

Gauge	Band	Uplink	Downlink
LTE700	12/17	698-716MHz	728-746MHz
	13	776-787MHz	746-757MHz
CELL800	5	824-849MHz	869-894MHz
PCS1900	25/2	1850-1915MHz	1930-1995MHz
AWS2100	4	1710-1755MHz	2110-2155MHz

Please just focus on the gauge that contains the band you are using.

APP Assisted Installation

Flow chart of APP Assisted Installation



Step 1: Download the 3rd Party Mobile apps

We are going to use 3rd party apps:

- To find the cell tower location
- To test the signal strength and quality

There are a variety of resources available online: Opensignal,Cell mapper, Network cell info lite, etc.

Please download them beforehand over Android and / or iOS:

※ You can use either of them to your favor. Here we are using Opensignal and Network Cell Info Lite as first two choices.

Step 2: Download Signal Supervisor app and connect the booster

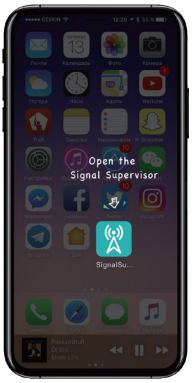
Download the Signal Supervisor app, register ID and booster.

1) Search "Signal Supervisor" on Google Play/ App Store, or scan the above QR Code to download.

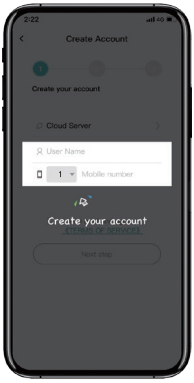
2) Register on the Signal Supervisor app.

3) Switch on the booster.

4) Click "Add Device" to register the booster into the APP. And we recommend WiFi connection because the Bluetooth connection can't go beyond 30ft.Check more steps about the app uses as below.


Open the
Signal Supervisor

1


Create Account
Create your account
Cloud Server
User Name
Mobile number
Create your account
Next step

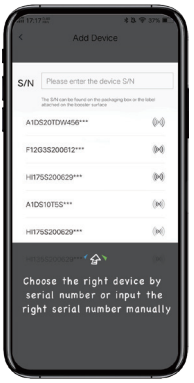
2


My Device
No data
click "Add Device"
Add

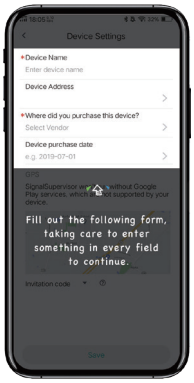
3


Add Device
Select an option to add your device
Scan for Bluetooth devices
Enter the Serial Number
Click to select

4


Add Device
S/N
Please enter the device S/N
A1DS20TDW456***
F12G3S200612***
HI175S200629***
A1DS10T5S***
HI175S200629***
Choose the right device by
serial number or input the
right serial number manually

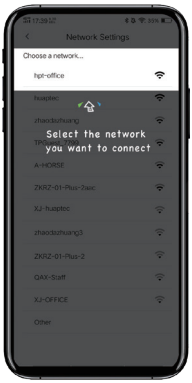
5


Device Settings
*Device Name
Enter device name
Device Address
*Where did you purchase this device?
Select Vendor
Device purchase date
e.g. 2019-07-01
Fill out the following form,
taking care to enter
something in every field
to continue.
Invitation code
Save

6


Device Setup
Configuring a WiFi Connect
Click to select
Configuring a WIFI Connect
NO WIFI Network

7


Network Settings
Choose a network...
hipt-office
Select the network
you want to connect
A-HORSE
ZKRZ-01-Plus-2aac
XJ-haptec
ZKRZ-01-Plus-2
QAX-Staff
XJ-OFFICE
Other

8

Remark: Due to the phone types and the WiFi router types, there are few cases though rare that the booster won't be linked successfully to the signal supervisor app, even after our technical support. In such case:

* Please kindly switch to use LCD signal meter to assist your install and will have the same result. And Bluetooth/WiFi disconnection won't influence the booster working status at all.
* Or please use different phone or change your WiFi router if you really want remote monitor.

Please contact our tech support and we will see what the best arrangements can be for you.

Step 3: Look for best outside signal and install outdoor antenna

The performance of the booster system is heavily dependent on the successful installation of the outdoor antenna

3.1 Connect the booster with outdoor antenna

(1) Put the booster near to the location you would like to install in the future, or a place with power outlet temporarily.

(2) Keep the booster connected with Bluetooth/WiFi antenna.

(3)Switch on the booster and make sure the signal supervisor app links with it smoothly.

(4)Connect the 16.4ft cable with the booster's outdoor port. The booster supports hot plug.

(5) Then connect the window cable with 16.4ft cable and pull the window cable outside and connect it with 32.8ft cable. In case window cable is not needed, connect the 16.4ft cable with 32.8ft cable directly.

(6) Connect the other side of 32.8ft cable with the outdoor antenna.

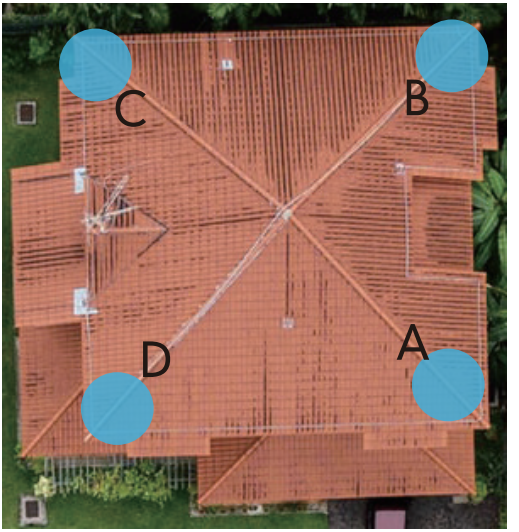
Outdoor Antenna 50ft Outdoor Antenna Booster

*HiBoost Home Ultra can be directly connected to the outdoor antenna with the 50ft NM-NM cable.

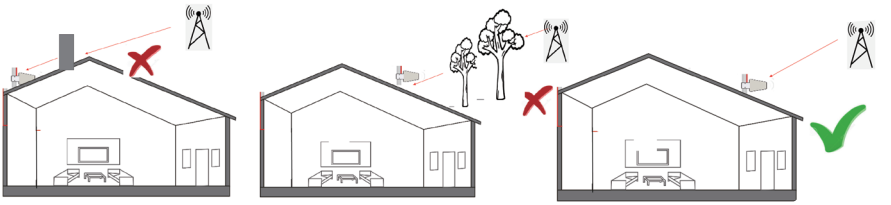
Notes:
* It is a must **NOT** to connect indoor antenna at this moment as it will influence the outside signal finding.
* Please place the booster outdoor within 30ft to the possible location of outdoor antenna if there is only Bluetooth connection. This is to ensure the App links to the booster.

3.2 Select the possible location for best outside signal.

Bring your mobile phone with the APPs and the outdoor antenna to the location where the best outside signal can be found. The outdoor antenna is recommended to be at the four corners or high end of the roof, or attic.



The outdoor antenna needs to maintain a clear line of sight with the cell tower. And it is necessary to avoid the roof or other stuffs from blocking the outdoor antenna.



3.3 Use 3rd party APP to locate the tower(s)

Now open “Opensignal”, use it to detect the approximate position of the nearby cell tower.

(1)Insert your detail address in “Search city” box. (following figure 1)

(2)Enter signal dashboard, and click “CELL TOWERS”. Then zoom in map to find best one, it will show a blue line with your place which means your cellphone connected one. (following figure 2&3)

(3)When you find such location, check the strength, test voice and data speed. A good signal shall not only be strong, but also be clear in voice and fast in data speed. (following figure 4-6)

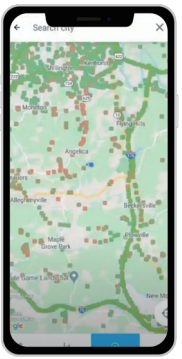


Figure 1

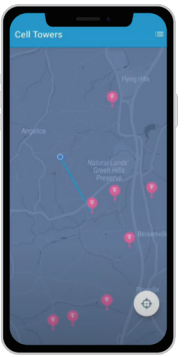


Figure 2

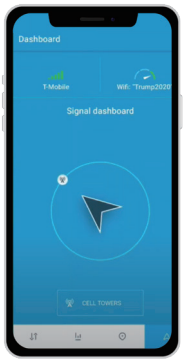


Figure 3

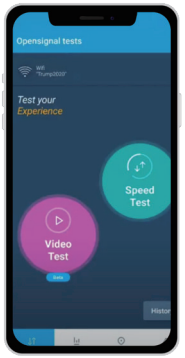


Figure 4

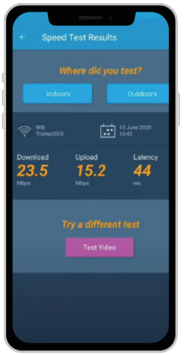


Figure 5

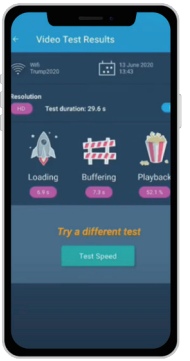
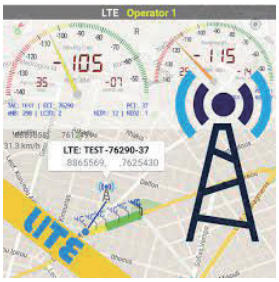


Figure 6

You can also use the “Network Cell Info Lite” to locate the tower and measure the signal strength before & after install.
The good point of Network Cell Info Lite is that you can see the signal levels.
But it seems to be only available for Android.



Network Cell Info Lite

The signal strength requested by the booster system is as below.

SIGNAL STRENGTH	EXCELLENT	GOOD	FAIR	POOR	DEAD ZONE
3G/1X	-70dBm	-70 to -85dBm	-86 to -100dBm	-101 to -109dBm	-101dBm
4G/LTE	-90dBm	-90 to -105dBm	-106 to -110dBm	-111 to -119dBm	-120dBm

Your signal strength is going to be a good indicator of how fast you can download and stream, but for voice, it’s more like “Can I make a call, or not?” If you can make a call you should not care how many bars you have, as long as the call goes through and everyone can hear everyone. Looking at bars is just going to make you cranky.

The reason to test your internet speed is to make sure you'll be able to stream high-bandwidth movies, like those from Netflix, Hulu, Amazon, and other providers. If your internet speed is too slow, you'll get choppy video or regular buffering.

3.4 Look for the best location and direction of outdoor antenna

After the tower is located, please pick up outdoor antenna and point to the tower and adjust its direction precisely.
Watch the signal gauge of Signal Supervisor App as it will show the booster's best output power when you get the strongest outside signal.

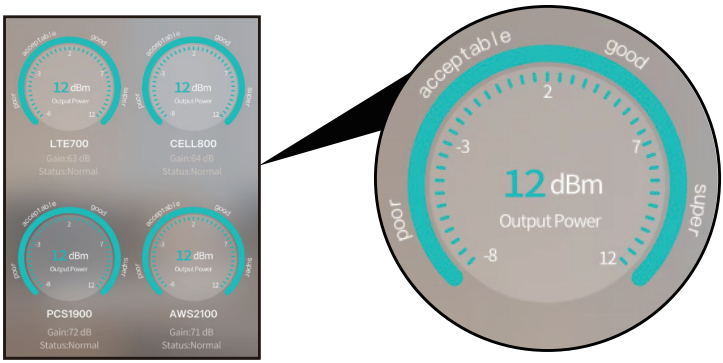
Target: Try to get the highest possible output power for each band and try to make 2-3 gauges turn green.

1) You can either look at the signal meter value, 12dBm is the best

2) Or you can look at the signal description, Super is the best

Notes: The output power level in the signal meter is the level for the indoor antenna.

Fix the outdoor antenna direction when you get the best output power.

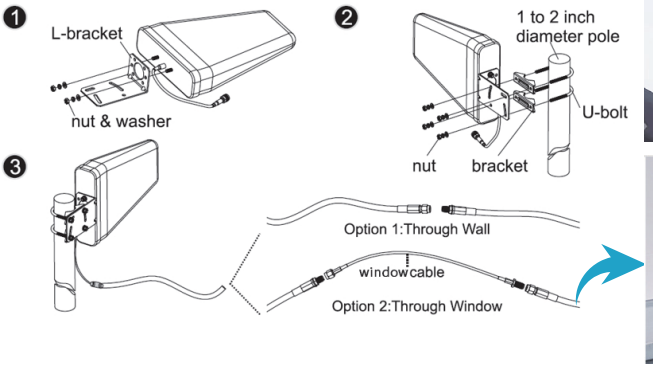


Professional Tips

- Keep in mind that it is normal for the output values may vary dynamically between 1-3 dB
- To optimize the signal for one carrier, point the outdoor antenna towards the closest cell phone tower designated to that carrier
- To optimize the signal for more than one carrier, point the outdoor antenna between multiple towers
- Make sure to slowly turn the antenna while taking the readings so the booster has time to adjust the reading
- Test and install the antenna at the same height where power outputs and gain values reach the booster's maximum capacity
- **If you can't get a good output power, which is even below poor, most probably the install will fail. Either please find a new place to find good signal again, or drop the install.**

3.5 Fix outdoor antenna

Now install the outdoor antenna firmly



The connector of the cable connection part must be glued with black waterproof tape to prevent long-term signal drop and reduce signal loss!

3.6 Reconfirm that the signal on signal gauge is the best!

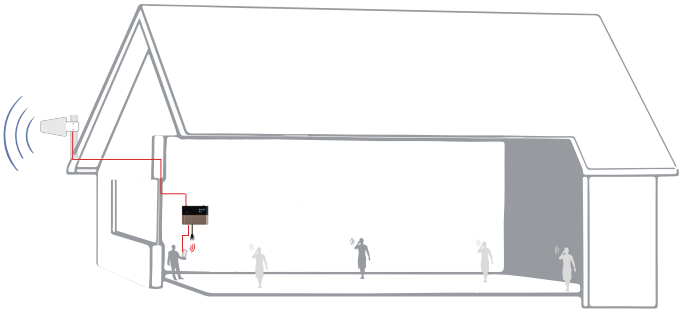
Please **do take following screen shot** for future comparison during indoor antenna install.

What you are going to be paying attention to here, is the gain values. If you have interference between your indoor and outdoor antennas, then the booster will lower the gain and these values will decrease.

Step 4: Install the indoor antenna

4.1 Now it's turn to install the indoor antenna

Note: It is better to have two people at this stage. One can go around to find the best place for indoor antenna. While the other can walk around to make tests all over to make sure every spot is covered with stable and high quality signal.

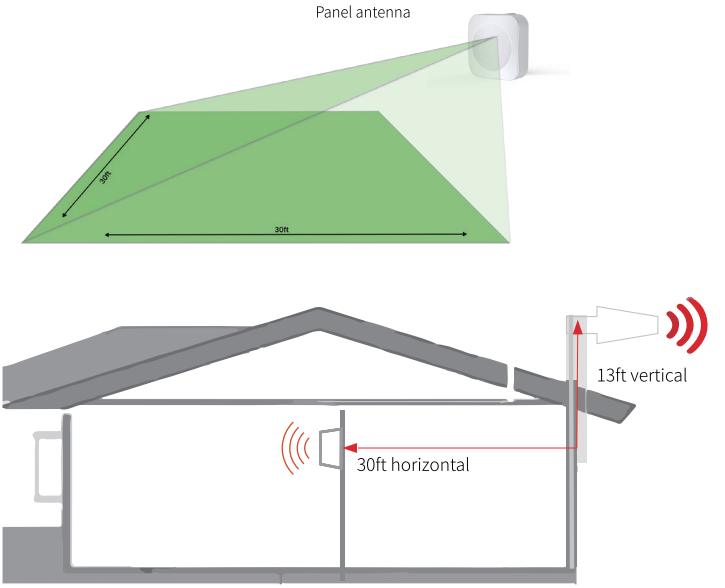


4.2 Connect the indoor antenna with the booster's indoor port by indoor cable, and switch on the booster.

Note : Cellphone are to be used more than 1m away from the Indoor Antenna

4.3 Find the proper location for indoor antenna

1) Determine the location according to the antenna's radiation pattern. The radiation pattern is 80° horizontal and 70° vertical. So try to make sure the space will fall into its radiation pattern.



2) After finding the location, hold it there, and watch the gain and power on the App's signal gauge, they shall keep the same or very nearby with the screen shot taken during outdoor antenna install. This is to avoid the loop back between outdoor and indoor antennas, please move the indoor antenna till you get unchanged or slightly changed gain and power. This step is quite crucial for the booster's best performance.

Two requests of indoor antenna install
A. Radiation shall be good enough to cover whole space
B. Loop back shall be avoided

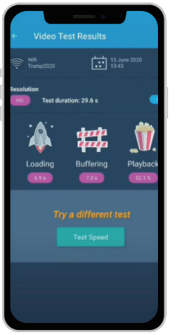
Again the tips to avoid the loop back

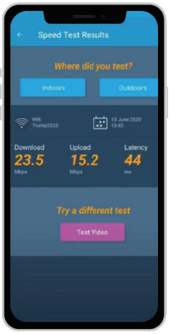
1. Increase the distance between the outdoor and indoor antennas
2. The outdoor and indoor antennas shall be back to back
3. Use barriers between the indoor and outdoor antennas

4.4 Signal Quality test

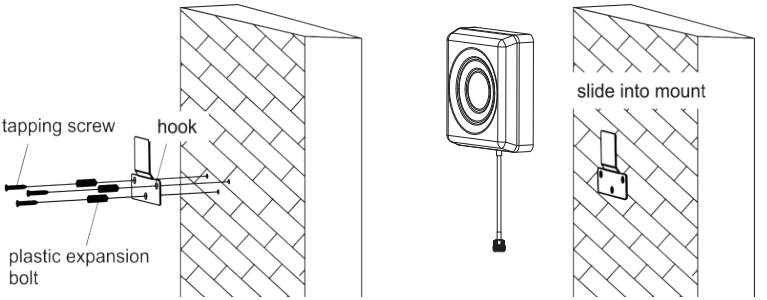
After finding such a location, hold the indoor antenna there and ask the other person to walk back and forth, and use the 3rd party app Network Cell Info Lite & OpenSignal to test the signal strength, voice, and data.
We recommend you to test the signal strength, the voice quality and data speed.

*Notes Again: Just remember that strength and quality are two separate issues. A poor quality "strong" signal can be next to useless, but a clean signal of two bars might be all your device needs.





If the test is good, then congratulations, the indoor antenna position has been successfully found. Please install the indoor antenna.

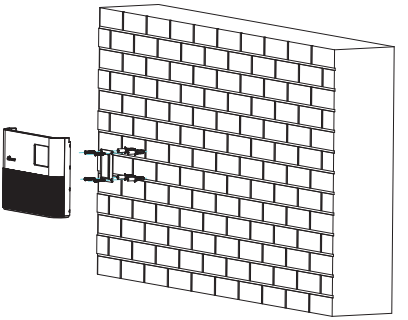


Note : Cellphone are to be used more than 1m away from the Indoor Antenna

Step 5: Install the booster and the cables

Mount the signal booster in a dry and cool area, and it shall be easily accessible for maintenance.

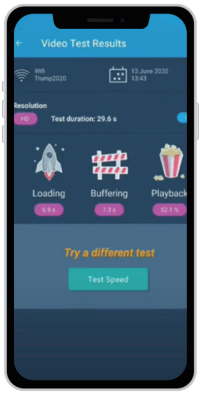
And run the cables neatly, please do use the **water-proof tape** to protect all outside connections from the weather.



Test again the performance after installation is done

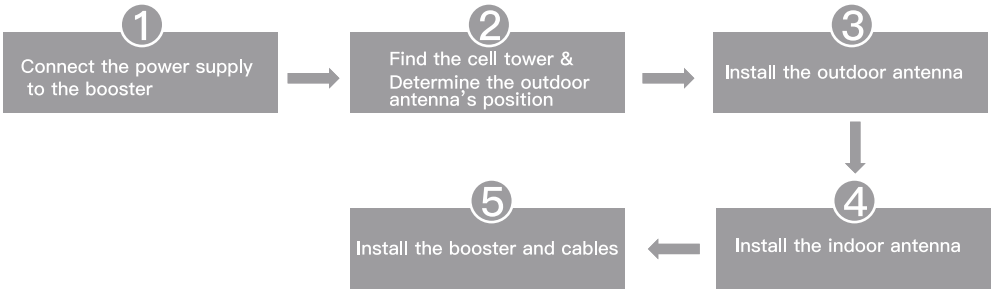
a. First make sure the Signal gauge value is unchanged from the outdoor antenna install.
b. Test by a third-party app, calls and network data are smooth in most indoor signal coverage areas.

a. Now everything is completed and please start to enjoy the mobile services.
b. If the result is not satisfactory or you want to be better, you may repeat the whole or part of the process to improve.
c. Please contact us: Signal Supervisor App online support, Phone and Email in case you have any problems.



LCD Assisted Installation

Flow chart of LCD Assisted Install



Step 1: Connect the Power Supply to the Booster

Power Supply

Booster

Due to the variety of phone models and the WiFi router types, there is a situation, though it is rare, where the booster cannot be linked to the Signal Supervisor app successfully.

If such situation is encountered:

* You can alternatively use LCD signal meter to assist your installation.

And Bluetooth/WiFi disconnection won't influence the booster working status at all.

* Or please use another cell phone or change a WiFi router if you insist an app assisted installation.

Please contact our tech support if you have difficulties in installation, and we will provide the best solution for you.

Step 2: Find the cell tower & Determine the outdoor antenna's position

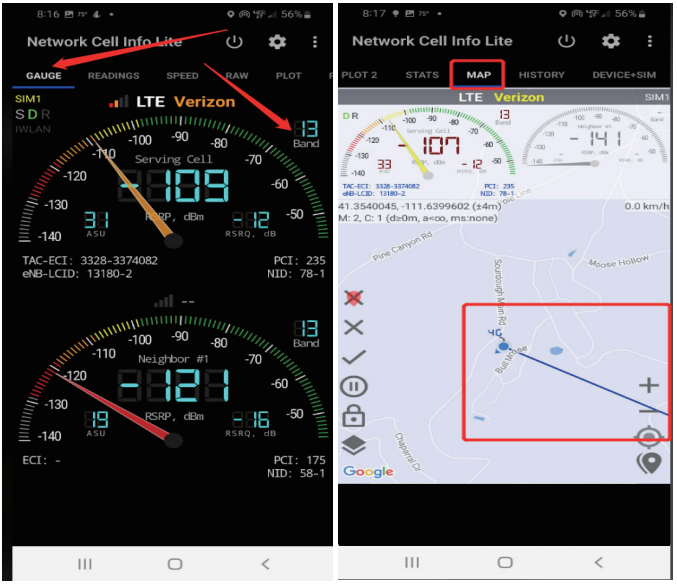
2.1 Find the band you are using

For Android

Download NetWork Cell Info Lite in the Google store and open it.
It can be seen from the example picture that the frequency band is band 13.
(According to the form before, you need to pay attention to Gauge LTE700)

Then click MAP. You can see your phone connecting to a tower, and you can try aiming your outdoor antenna at it. But sometimes this is not accurate. You could also move to Step 3.2 to find the tower

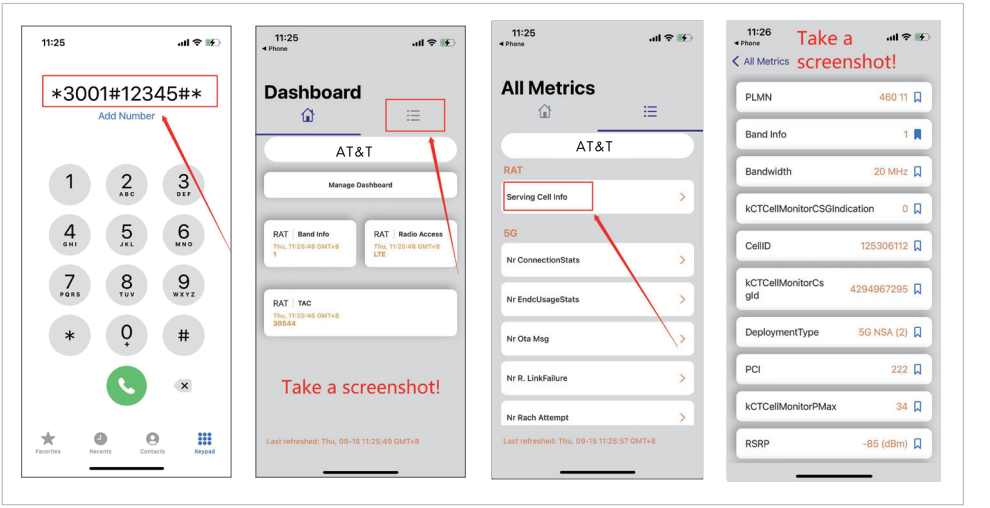
Note: Please take screenshots at this stage.



For ios

(1)Dial *3001#12345#*

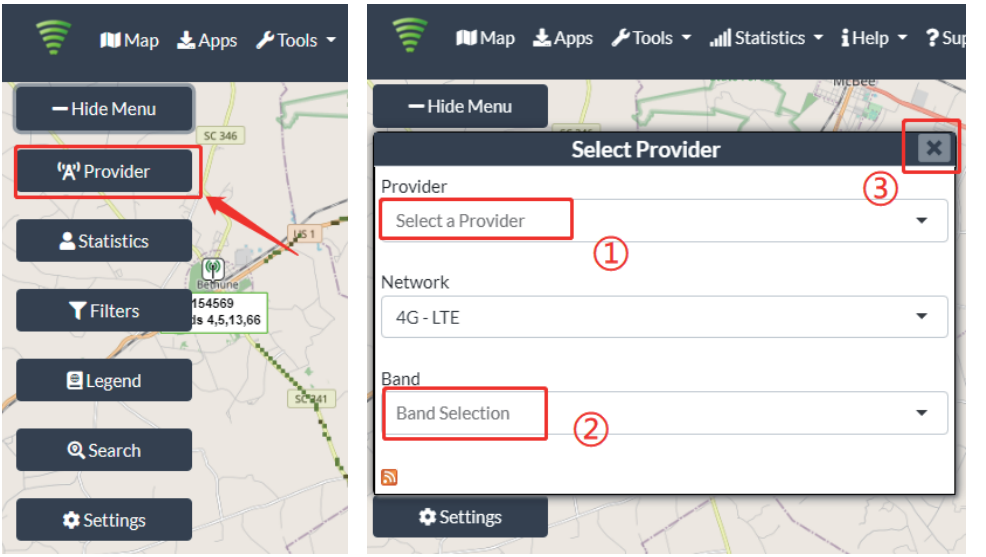
(2)Follow the instructions, take the screenshot as required.



2.2 Find the cell tower

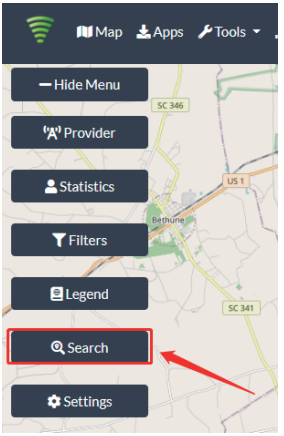
(1) Enter cellmapper.net

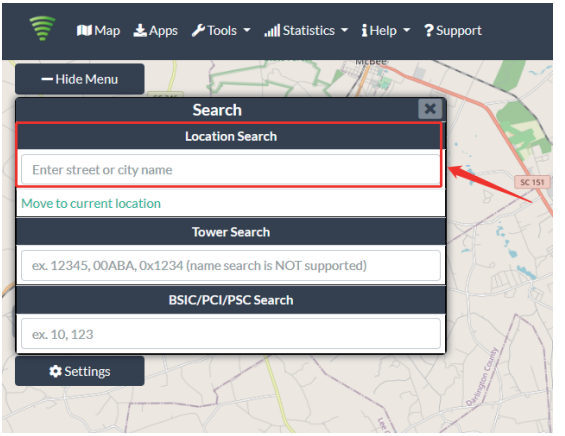
(2) Choose your own carrier and band here.



(3) Then enter the coordinate of where you are trying to install the signal booster, and press Enter key.

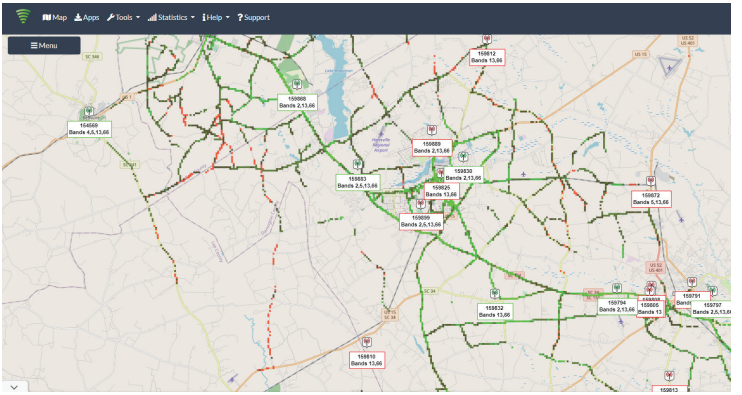
(In fact when you open Cellmapper, the map on the right will automatically locate your area if you've given the site permission to access your location.
If you found tower sites not even displayed on the map, it might because the app intercepts the locations for security reasons.)





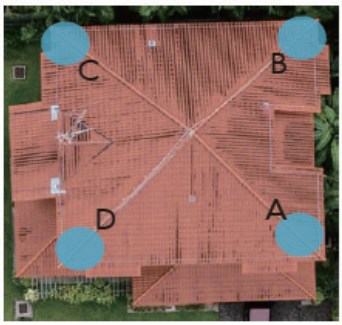
(4) After the map jumps to the location, you can scroll the mouse pulley and zoom it out, then you will see the tower near the location.
It would be better to take a screenshot of this page to guide the following installing steps. Should you have any questions, please contact our tech support.

Note: If you need help finding the tower, please contact our tech support and provide your carrier, band and screenshots taken in the last steps.



2.3 Determine the outdoor antenna's position

The outdoor antenna is usually placed at one of the 4 ends of the roof.
Please choose the position according to the tower's location.
Make sure there are no barriers between the antenna and the tower.



Step 3 Install the outdoor antenna

3.1 Connect the outdoor antenna with the booster

(1) Put the booster near to the location you would like to install in the future, or a place with power outlet temporarily.
(2) Power on the booster and make sure the signal supervisor app links with it smoothly.
(3) Connect the 16.4ft cable with the booster's outdoor port. The booster supports hot plug.
(4) Then connect the window cable with 16.4ft cable and pull the window cable outside and connect it with 49.2t cable. In case window cable is not needed, connect the 16.4ft cable with 49.2ft cable directly.
(5) Connect the other side of 49.2ft cable with the outdoor antenna.

Outdoor Antenna 50ft Outdoor Antenna Booster

Notes:
*Please do NOT to connect indoor antenna at this moment as it will influence the outside signal finding.
*Please place the booster within 30ft to the possible insatllation location of outdoor antenna if Bluetooth connection is applied. This is to ensure the App can connect to the booster.

*HiBoost Home Ultra can be directly connected to the outdoor antenna with the 50ft NM-NM cable.

3.2 Look for the best location and direction of outdoor antenna

Now pick up the outdoor antenna and point to above cell tower and adjust its position precisely, ask your partner to watch the LCD signal gauge to get a strongest possible output signal.

Ask your partner to look at the signal meter value, 12dbm is the best.

Notes: The output power level in the signal meter is the level for each of the two indoor antennas.

Fix the outdoor antenna direction when you get the best output power

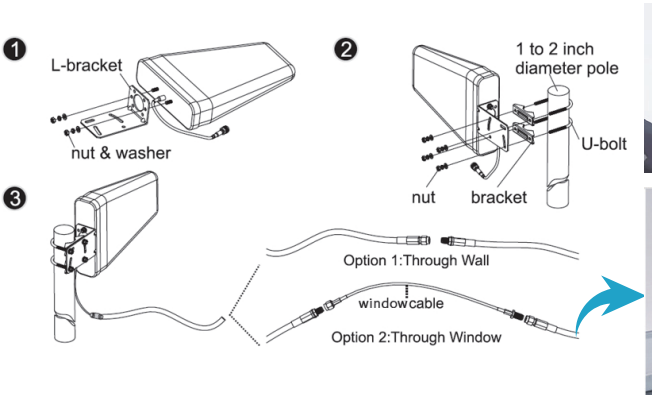
Touchable LCD meter tells how strong the signal is

Professional Tips

- Keep in mind that it is normal for the output values may vary dynamically between 1-3 dB
- To optimize the signal for one carrier, point the outdoor antenna towards the closest cell phone tower designated to that carrier
- To optimize the signal for more than one carrier, point the outdoor antenna between multiple towers
- Make sure to slowly turn the antenna while taking the readings so the booster has time to adjust the reading
- Test and install the antenna at the same height where power outputs and gain values reach the booster's maximum capacity

2.5 Fix outdoor antenna

Now install the outdoor antenna firmly



The connector of the cable connection part is glued with black waterproof tape to prevent long-term signal drop and reduce signal loss!

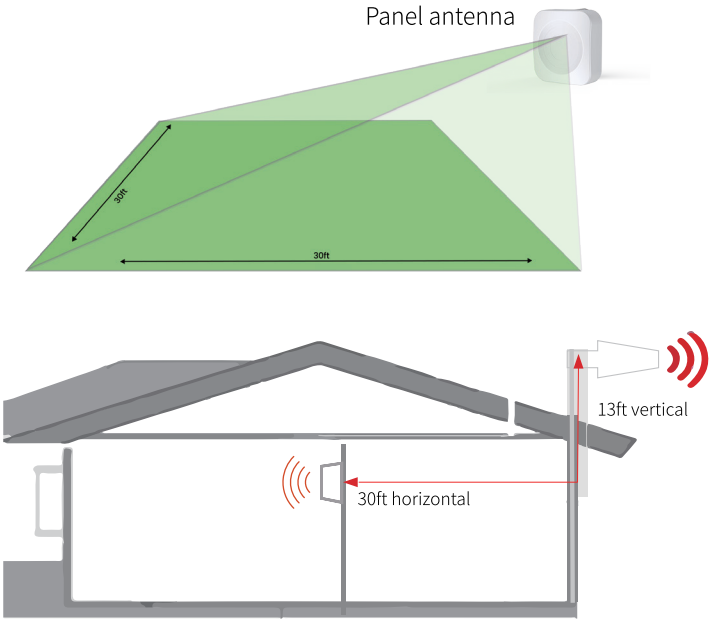
2.6 Reconfirm that the signal on LCD signal meter is the best!

And take photo of LCD signal meter for future comparison during indoor antenna install. What you are going to be paying attention to here, is the gain values. If you have interference between your indoor and outdoor antennas, then the booster will lower the gain and these values will decrease.

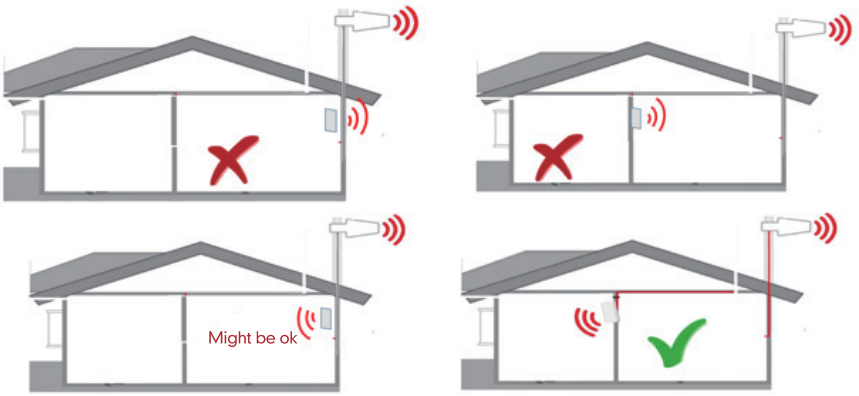
LCD signal meter tells how strong the signal is

4.3 Find the proper location for indoor antenna

1) The radiation pattern is 80° horizontal and 70°vertical. So try to make sure your indoor antenna pointed to the area you would like to cover with signal.



2) After finding the location, hold it there, and ask the other person to compare the gain and power on LCD signal meter, they shall keep the same or very nearby with the photo taken during outdoor antenna install. This is to avoid the loop back between outdoor and indoor antennas, please move the indoor antenna till you get unchanged or slightly changed gain and power. This step is quite crucial for the booster's best performance.



Two requests of indoor antenna install

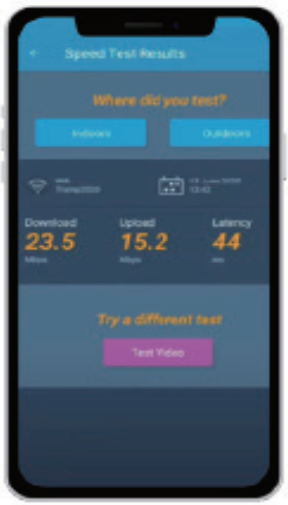
A. Radiation shall be good enough to cover whole space

B. Loop back shall be avoided

Again the tips to avoid the loop back

1. Increase the distance between the outdoor and indoor antennas
2. The outdoor and indoor antennas shall be back to back
3. Utilize barriers between the indoor and outdoor antennas

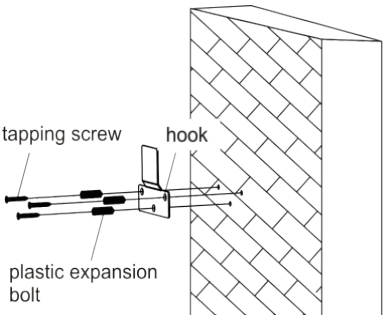
4.4 Signal Quality test

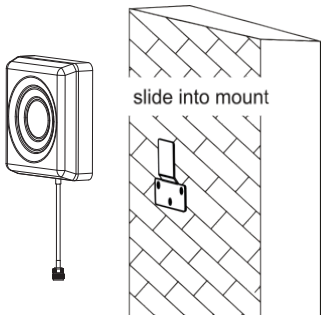


You could do the following:

(1)First make sure the signal gauge value is unchanged from that during the outdoor antenna installation.
(2)Do speed tests with the booster on and off, and make a comparison.
(3)Check if the number of signal bars increases.
(4)Make a phone call or send messages and check if the voice and streaming are better.

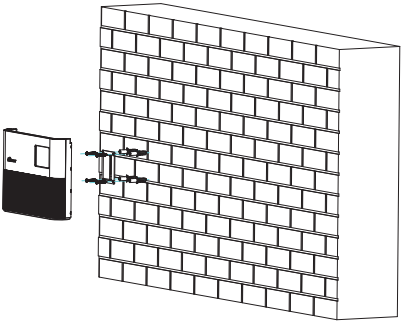
If the test is good, then congratulations, the indoor antenna position has been successfully found. Please install the 1st indoor antenna.





Step 5: Install the booster and cables

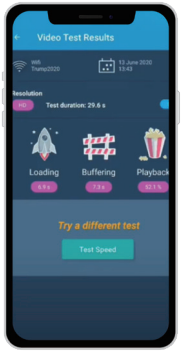
Mount the signal booster in a dry and cool area, and it shall be easily accessible for maintenance.
And run the cables neatly, please do use the **water-proof tape** to protect all outside connections from the weather.



Test again the performance after installation is done

a. First make sure the Signal gauge value is unchanged from that during the outdoor antenna installation.
b. Test by a third-party app, calls and network data are smooth in most indoor signal coverage areas.

Now everything is completed and please start to enjoy the mobile services.
If the result is not satisfactory or you want to be better, you may repeat the whole or part of the process to improve.
Should you have any queries during the installation, please kindly contact us via Signal Supervisor App online support.



Quick Troubleshooting Guide

If the booster is working normally, no further adjustment is required.

OVERLOAD					
	DL GAIN	OUTPUT POWER	LED LIGHT PATTERN	REASON	SOLUTION
LTE700	<65dB	≥10dBm	Red(SHDN)	Outdoor signal is too strong	Have your outdoor antenna pointed slightly away from the cell tower
CELL800	<65dB	≥10dBm			
PCS1900	<68dB	≥10dBm			
AWS2100	<68dB	≥10dBm			

LOOP BACK					
	DL GAIN	OUTPUT POWER	LED LIGHT PATTERN	REASON	SOLUTION
LTE700	<65dB	<10dBm	Yellow(OSC) or Red(SHDN)	Inadequate separation of the indoor and outdoor antennas	1、Increase vertical and horizontal distance between the outdoor and indoor antenna(s). 2、Make the outdoor antenna and the indoor antenna back to back. 3、Add barriers(e.g. walls)
CELL800	<65dB	<10dBm			
PCS1900	<68dB	<10dBm			
AWS2100	<68dB	<10dBm			

POOR SIGNAL					
	DL GAIN	OUTPUT POWER	LED LIGHT PATTERN	REASON	SOLUTION
LTE700	≥65dB	--/NEGATIVE	Blue(ULN)	Input signal is too weak	1、Try adjusting the outdoor antenna to the best direction 2、Try adjusting the outdoor antenna to another cell tower 3、Try increasing the height of the outdoor antenna and make sure there are no barriers between the tower and the outdoor antenna Please try these solutions until the output power reaches or is over -5dBm.
CELL800	≥65dB	--/NEGATIVE			
PCS1900	≥68dB	--/NEGATIVE			
AWS2100	≥68dB	--/NEGATIVE			

Normal but No Boosted Signal					
	DL GAIN	OUTPUT POWER	LED LIGHT PATTERN	REASON	SOLUTION
LTE700	≥65dB	≥-5dBm	Blue(ULN)	1、The band is not supported 2、The Signal is from other Carriers	Check the band you are using again. If it stays at band66, get into the 'detail/ 'Setting' of gagues on Signal Supervisor and switch off RF switch of AWS2100, then adjust the outdoor antenna again. It would be better if there are two persons and one can stay near the indoor antenna to check if the signal is boosted.
CELL800	≥65dB	≥-5dBm			
PCS1900	≥68dB	≥-5dBm			
AWS2100	≥68dB	≥-5dBm			

NORMAL					
	DL GAIN	OUTPUT POWER	LED LIGHT PATTERN	REASON	SOLUTION
LTE700	≥60dB	≥-5dBm	Blue(ULN)		
CELL800	≥60dB	≥-5dBm			
PCS1900	≥65dB	≥-5dBm			
AWS2100	≥65dB	≥-5dBm			

Note:
Some customers have some misunderstandings about boosters, and we would like to clarify it here:
If you can't even get a stable 1 bar outside the house or on the roof, then we suggest you return it as it won't work in areas with very weak signal, the same is true of all boosters on the market.

Item					
Working Band	Band 12/17	Band 13	Band 5	Band 25/2	Band 4
UL Frequency Range(MHz)	698-716	776-787	824-849	1850-1915	1710-1755
DL Frequency Range(MHz)	728-746	746-757	869-894	1930-1995	2110-2155
Supported Standards	5G DSS, LTE, HSPA+, EVDO, WCDMA, GSM				
Max Gain	72dB				
Max Output Power	DL 12 dBm				
MGC (Step Attenuation)	≥ 25 dB / 1 dB step				
Noise Figure	≤ 6 dB typ				
I/O Port	N-Female				
Inpedance	50 ohm				
Power Supply	Input AC 100-240V, 50/60 Hz, Output DC 12V/3A				
Power Consumption	≤ 18 W				
Environment	–25 °C to +55 °C (<85% RH)				
Environment Conditions	IP40				
Dimensions	9.3 x 6.9 x 2 in / 236 x 174 x 50 mm				
Weight	≤ 3.09 lbs / 1.4 kg				
Certification	FCC / ISED				

Notes: Support 5G only that's been or will be deployed in current 4G by DSS (Dynamic Spectrum Sharing) by carriers.

Outdoor Antenna & Cable Kit Options

Kit 9-5050
Yagi 9dbi Antenna & 50' 5D Cable
Kit 11-100400
Yagi 11dbi Antenna & 100' 400 Cable
Kit 11-7550
Yagi 11dbi Antenna & 75' 5D Cable
Kit 11-100500
Yagi 11dbi Antenna & 100' 5D Cable
Kit 10-3050
Panel 10dbi Antenna & 30' 5D Cable
Kit 10-50400
Panel 10dbi Antenna & 50' 400 Cable
Kit 10-5050
Panel 10dbi Antenna & 50' 5D Cable
Kit 10-75400
Panel 10dbi Antenna & 75' 400 Cable
Kit 10-100400
Panel 10dbi Antenna & 100' 400 Cable
Kit 10-7550
Panel 10dbi Antenna & 75' 5D Cable
Kit 10-10050
Panel 10dbi Antenna & 100' 5D Cable

Kit 9-50400
Yagi 9dbi Antenna & 50' 400 Cable
Kit 9-75400
Yagi 9dbi Antenna & 75' 400 Cable
Kit 9-100400
Yagi 9dbi Antenna & 100' 400 Cable
Kit 9-7550
Yagi 9dbi Antenna & 75' 5D Cable
Kit 9-10050
Yagi 9dbi Antenna & 100' 5D Cable
Kit 7-3050
Panel 7dbi Antenna & 30' 5D Cable
Kit 7-50400
Panel 7dbi Antenna & 50' 400 Cable
Kit 7-5050
Panel 7dbi Antenna & 50' 5D Cable
Kit 7-75400
Panel 7dbi Antenna & 75' 400 Cable
Kit 7-100400
Panel 7dbi Antenna & 100' 400 Cable

Kit 7-7550
Panel 7dbi Antenna & 75' 5D Cable
Kit 7-10050
Panel 7dbi Antenna & 100' 5D Cable
Kit 5-30400
Omni 5dbi Antenna & 30' 400 Cable
Kit 5-3050
Omni 5dbi Antenna & 30' 5D Cable
Kit 5-50400
Omni 5dbi Antenna & 50' 400 Cable
Kit 5-5050
Omni 5dbi Antenna & 50' 5D Cable
Kit 5-75400
Omni 5dbi Antenna & 75' 400 Cable
Kit 5-10400
Omni 5dbi Antenna & 100' 400 Cable
Kit 5-7550
Omni 5dbi Antenna & 75' 5D Cable
Kit 5-10050
Omni 5dbi Antenna & 100' 5D Cable

Indoor Antenna & Cable Kit Options

Kit 72-5050-50
2 Panel 7dbi Antenna with50' 5D N male & 2-Way Splitter
Kit 52-5050-50
2 Whip 5dbi Antenna &50' 5D Cable & 2-Way Splitter
Kit 102-5050-50
2 Panel 10dbi Antenna with50'5D N male & 2-Way Splitter
Kit 103-7550-50
3 Panel 10dbi Antenna & 75' 5D Cable & 3-Way Splitter
kit 104-7550-50
4 Panel 10dbi Antenna & 75' 5D Cable & 3 2-Way Splitter

Kit 73-7550-50
3 Panel 7dbi Antenna & 75' 5D Cable & 3-Way Splitter
kit 74-7550-50
4 Panel 7dbi Antenna & 75' 5D Cable & 3 2-Way Splitter
Kit 3-30400
Omni 3dBi Antenna with 30' 400 Cable
Kit 3-5050
Omni 3dBi Antenna & 50' 5D Cable
Kit 3-7550
Omni 3dBi Antenna & 75' 5D Cable
Kit 3-10050
Omni 3dBi Antenna & 100' 5D Cable

Kit 3-30400
Omni 3dBi Antenna with 30' 400 Cable
Kit 3-50400
Omni 3dBi Antenna & 50' 400 Cable
Kit 32-50400-50
2Omni 3dBi Antenna & 50' 400 Cable & 2-Way Splitter
Kit 33-50400-50
3 Omni 3dBi Antenna & 50' 400 Cable & 3-Way Splitter
Kit 34-50400-50
4 Omni 3dBi Antenna &50' 400 Cable &3 2-Way Splitter

Notes: Unauthorized use of accessories (power supplies, antennas, cables, etc.) is strictly prohibited.

FCC RF EXPOSURE STATEMENT

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instruction for satisfying RF exposure compliance. This transmitter must not be colocated or operating in conjunction with any other antenna or trans-mitte.his equipment should be installed andoperated with minimum distance 20cm between the radiator& your body.

ISEDC RF EXPOSURE STATEMENT

The devices is compliance with RF exposure limits. The minimum distance from body to use the device is 20 CM.

Le présent appareil est conforme aux conformité ou aux limites d'intensité de champ RF. La distance minimale du corps à utiliser le dispositif est de 20 CM.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

Changes or modifications not expressly approved by HiBoost could void the user's authority to operate the equipment. For a complete list of antennas and cables approved for use with these boosters see Authorized Kitting Options

FCC 27.50(d)(4) Statement: Fixed, mobile, and portable (handheld) stations operating in the 1710-1755 MHz band are limited to 1-watt EIRP. Fixed stations operating in the 1710-1755 MHz band are limited to a maximum antenna height of 10 meters above ground.

FURTHER INFORMATION ON SIGNAL BOOSTER END-USE REGISTRATION
The following links are the currently active contacts for booster registration with U.S. wireless providers:
https://www.uscellular.com/uscellular/support/fcc-booster-registration.jsp
https://www.sprint.com/legal/fcc_boosters.html
https://www.verizonwireless.com/solutions-and-services/accessories/register-signal-booster/ https://support.t-mobile.com/docs/DOC-9827
https://securec45.securewebsession.com/attsignalbooster.com/

ISEDC Statement: This device complies with Innovation, Science, and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:
(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of the device.
Le présent appareil est conforme aux CNR d' Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
(1) l'appareil nedoit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
This device complies with Innovation, Science and Economic Development Canada ICES-003 Compliance Label: CAN ICES-3 (B)/ NMB-3(B). Le présent appareil est conforme Innovation, science et développement économique Canada ICES-003 Étiquette de conformité: CAN ICES-3 (B) / NMB-3 (B).
Please follow the link to access the CPC-2-1-05:
http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08942.html

This is a CONSUMER device.

BEFORE USE, you **MUST REGISTER THIS DEVICE** with your wireless provider and have your provider' s consent. Most wireless providers consent to the use of signal boosters. Some providers may not consent to the use of this device on their network.**I**f you are unsure, contact your provider.

In Canada, **BEFORE USE**, you must meet all requirements set out in **I**SED CPC-2-1-05.

You **MUST** operate this device with approved antennas and cables as specified by the manufacturer. Antennas **MUST** be installed least 20 cm(8 inches)from(i. e..**MUST NOT** be installed within 20 cm of)any person.

You **MUST** cease operating this device immediately if requested by the FCC(or **I**SED in Canada)or a licensed wireless service provider.

WARNING. E911 location information may not be provided or may be inaccurate for calls served by using this device.

This device may be operated ONLY in a fixed location(i.e., may operate in a fixed location only)for in-building use.

Return and Warranty Policies

30-Day Money-Back Guarantee: If for any reason the performance of any product is not acceptable, the product may be returned to the reseller within 30-days with proof of purchase. Please contact the customer support team.

3-Year Warranty: Signal boosters and kits are warranted for 3 years. We will repair or replace the unit and will cover the cost of delivery back to consumers located within the continental US and Canada. We will only cover shipping to our office if the booster was delivered to you recently, and was delivered defective.Damage caused by the use of non-company power supplies or other accessories is not covered under warranty.

Customers can choose to return the signal boosters and kits directly to the manufacturer at the purchaser's expense with a dated proof of purchase and a Returned Material Authorization (RMA) number supplied by us. RMA numbers may be obtained by contacting customer support at 972-870- 5666 or support @hiboost.com

This warranty does not apply to any signal boosters or kits determined by us to have been subjected to tampering, misuse, abuse, neglect, or mishandling that alters or damages physical or electronic properties.

We are not liable for any Signal Supervisor application network connectivity issues. The cell phone signal booster relies on a strong, continuous and reliable connection to the internet in order to communicate with the cell phone application. For all Signal Supervisor Application related issues, please check your network strength and call our technical support.

Failure to use a surge-protected AC power strip with at least a 1000 Joule rating will void your warranty. Damage caused by lightning is not covered by this warranty.

All of the products that are packaged with other accessory products are intended for resale and used as a single integrated system. Such product kits are required to be sold to the end-users or subsequent reseller as packaged.