



# Installation Guide

## Smartlink Series——



## Package Contents



Signal Booster



Outside Antenna



Outdoor Cable  
32.8ft NM-SMAM



Outdoor Cable  
16.4ft SMAF-NM



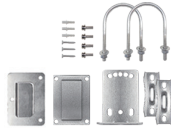
Indoor Antenna



Indoor Cable  
30ft NM-NM



Power Supply



Accessories for main parts  
are all provided



3M waterproof tape  
to protect connections



Through-Window Cable  
SMA-Male to SMA-Female  
(No drilled hole)



Bluetooth and  
Wi-Fi antenna



## Getting Started



**Step 1** Connect the Power Supply and the whip antenna to the Booster



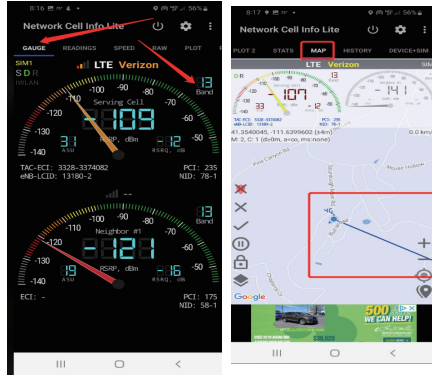
**Step 2** Download the Signal Supervisor App, register ID and booster.

Register an ID first and log in.  
Add the booster to the device list.

## Step 3 Find the cell tower & Determine the outdoor antenna's position

### 3.1 Find the band you are using

For Android

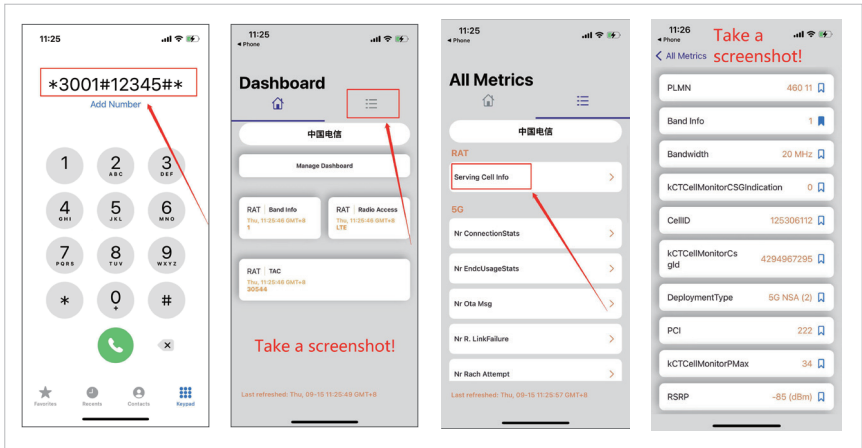


Download NetWork Cell Info Lite in the Google store and open it. It can be seen that the frequency band is band 13 from the example picture.

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 follow Step 3.2 to find the tower.

Note: Please take screenshots at this stage.

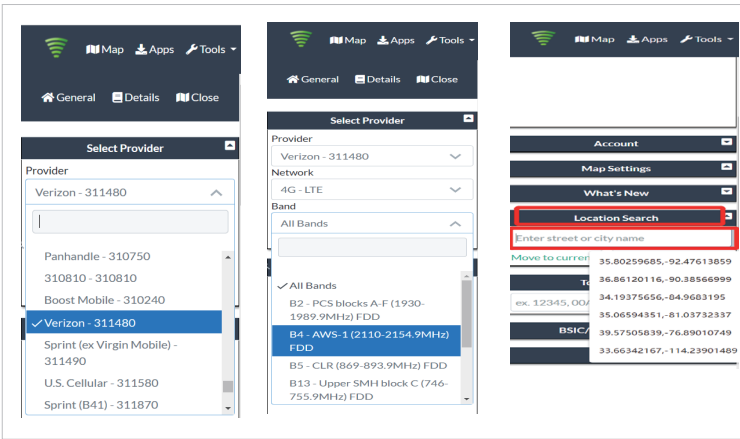
For ios



(1)Dial \*3001#12345#\*

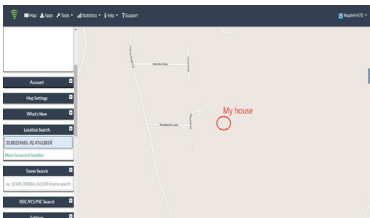
(2)Follow the instructions, take the screenshots as requested

### 3.2 Find the cell tower



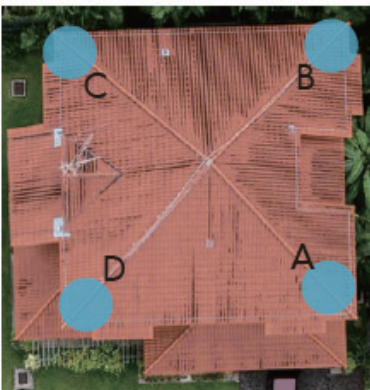
- (1) Enter cellmapper.net
- (2) Choose your own carrier and band here.
- (3) Then enter the coordinate of where you are trying to install the signal booster, and press Enter key.

(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 that were not even showing up on the map, it may be because the app offsets the locations for security reasons.)



- (4) The map on your right will jump to the location, then you can scroll the mouse pulley, zoom it out, you will see the tower near the location. And better to take a screenshot of this page for guiding the following installing steps. If 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.



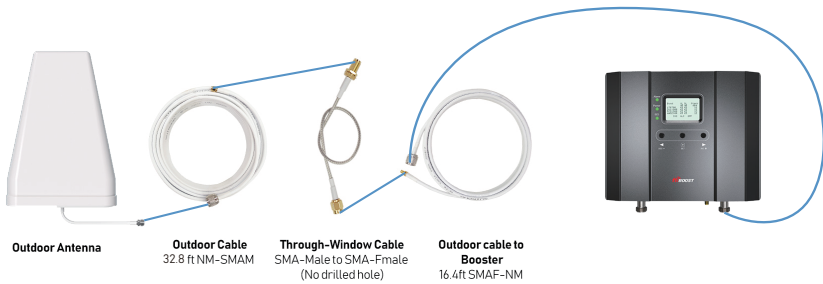
### 3.3 Determine the outdoor antenna's position

The outdoor antenna is usually placed at one of the 4 ends of the roof.

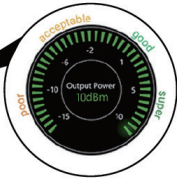
Please choose the position according to the tower's location. Make sure there are no barriers between the antenna and the tower.

## Step 4 Connect the outdoor antenna with the booster

Note: At this stage, don't connect the indoor antenna to the booster.



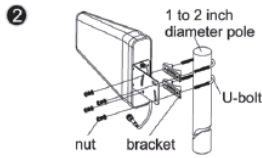
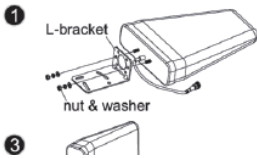
## Step 5 Adjust and fix the Outdoor Antenna



Have your outdoor antenna pointed to the cell tower you found before and watch the readings on the app. Adjust the outdoor antenna.

Notes:

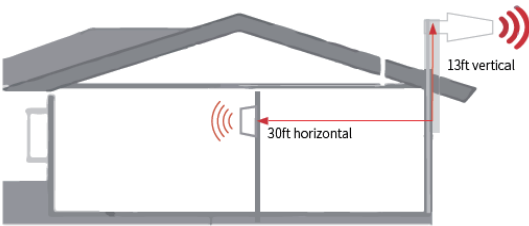
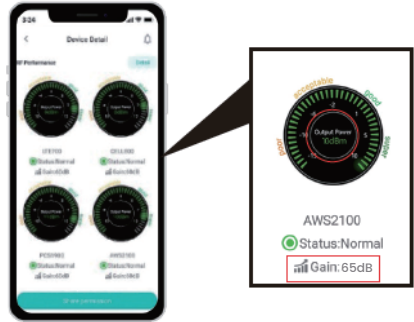
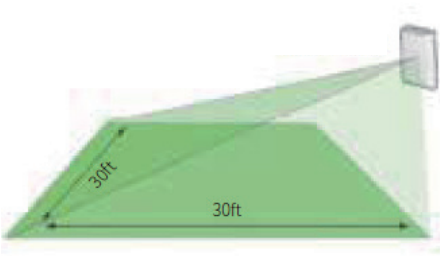
- (1) The output power should be the higher the better.
- (2) The full output power for 10k Smartlink is 12dBm. And the full gain is 65dB.



## Step 6 Connect the indoor antenna with the booster



## Step 7 Adjust the indoor antenna

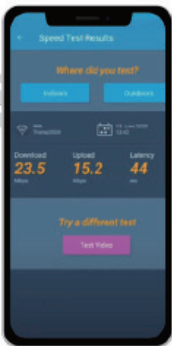


Have your indoor antenna pointed to the area you would like to cover with signal.

Notes:

- (1) It would be best if you could make the two antennas face opposite directions.
- (2) Make sure that the gain reaches 65dB. If not, please adjust the direction of the indoor antenna/increase the vertical and horizontal distance between the two antennas/add some barriers.

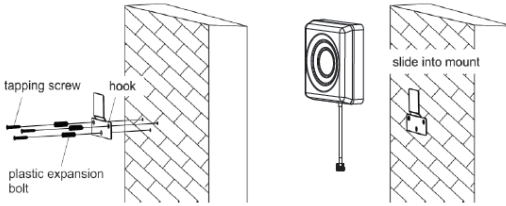
## Step 8 Signal quality test



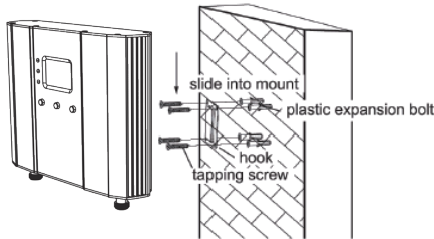
You could do the following:

- (1) Do speed tests with the booster on and off, and make a comparison.
- (2) Check if the number of signal bars increases.
- (3) Make a phone call or send messages and check if the voice and streaming are better.

## Step 9 Fix the Inside Antenna and the Booster



Fix the indoor antenna with the provided expansion bolt and hook.



Fix the booster with the provided expansion bolt and hook.

## 4 Regular Problems and 1 normal status

	(UL)Gain	(DL)Gain	(DL)Output Power	LED Light Indicator	Reason	Method
Overload	<65dB	<65dB	>=12dBm	Alarm light blinking green or red	Outdoor Signal Too Strong	Have your outdoor antenna pointed slightly off the cell tower
Loop Back	<65dB	<65dB	<12dBm	ISO light blinking green or red	Separation of the Two Antennas Not Good Enough	<ol style="list-style-type: none"> <li>1. Increase vertical and horizontal distance.</li> <li>2. Make them face in different directions.</li> <li>3. Add barriers</li> </ol>
Poor Input Signal	=65dB	=65dB	--	Alarm and ISO lights both solid green	Outdoor Signal Too Weak	Try adjusting the outdoor antenna or using another cell tower
Normal but No Boosted Signal	=65dB	=65dB	Positive	Alarm and ISO lights both solid green	The Signal is from Other Bands or Carriers	Try adjusting 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.
Normal	=65dB	=65dB	Positive			

## 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

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.

## Booster Light Patterns

LED STATUS INDICATORS		
LED	STATUS	INDICATION
Alarm LED	GREEN	Below full output power
	SLOW FLASHING GREEN	Full output power
	QUICK FLASHING GREEN	Output power is too high
	QUICK FLASHING RED	Booster will automatically shut off due to excessive DL signal from tower
Power LED	GREEN	Normal
	OFF	DC Power Problem
ISO LED	GREEN	Indicates oscillation status
	SLOW FLASHING GREEN	Slight loop back or self-oscillation
	QUICK FLASHING GREEN	Deep loop back or self-oscillation
	QUICK FLASHING RED	Booster is automatically shutting off



## Technical Specifications

Model No.	4K Smart Link	10K Smart Link	15K Smart Link
Working Bands	Band 12/17/Band 13/Band 5/Band 25/2/Band 4		
UL Frequency Range	698-716 / 776-787 / 824-849 / 1850-1915 / 1710-1755		
DL Frequency Range	728-746 / 746-757 / 869-894 / 1930-1995 / 2110-2155		
Maximum Gain	60 dB	65 dB	72 dB
Maximum Output Power	UL 24 dBm, DL 10 dBm	UL 24 dBm, DL 12 dBm	
I/O Port	N-Female & SMA-Female		
Weight	> 4.0 lb / 1.8 kg	> 5.0 lb / 2.2 kg	
Dimensions	4.7in x 7.8in x1.4in / 120mm x 198mm x 34mm	8.6in x 6.5in x 2in / 218mm x 165mm x 50mm	
MGC(Step Attenuation)	>25 dB / 1 dB Step		
Impedance	50 ohm		
Environment Condition	IP40		
Power Supply	Input AC 100~240V, 50/60Hz, Output DC 12 V/3 A		



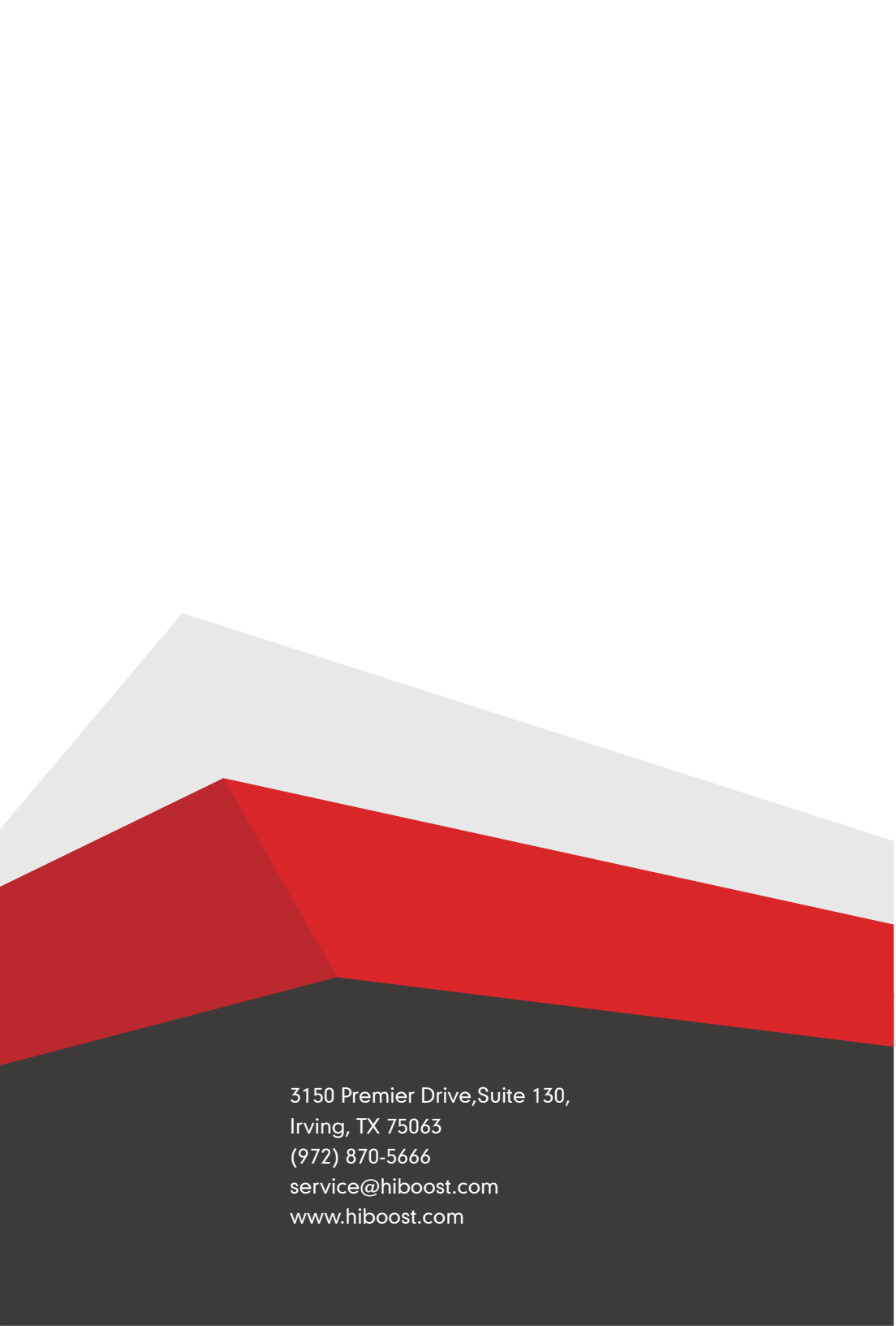
## For more information

Download *Signal Supervisor* or enter our website.



[www.hiboost.com](http://www.hiboost.com)

- a. You can download the specific user manual.
- b. You can reach our technical support for help.



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