HiBOOST

Installation Guide

Mini Series

Dot 2.0

Package Contents

Signal Booster

Outdoor Antenna

Outdoor Cable
49.2ft NM-SMAM

Indoor Whip Antenna

Power Supply

Accessories for main parts
are all provided

waterproof tape
to protect connections

Booster Light Patterns

Alarm(ISO)   Bluetooth   Wi-Fi

LED STATUSINDICATORS		
ALARM(ISO)	solid blue	normal
	slow flashing blue	slight loopback
	quick flashing blue	loopback
	quick flashing red	booster automatically shut off due to strong loopback/overload
Bluetooth LED	slow flashing blue	bluetooth disconnected
	quick flashing blue	bluetooth connected
Wi-Fi LED	solid blue	wifi disconnected
	slow flashing blue	wifi connected

Bands contained in the Gauges on Signal Supervisor

Gauge	Band	Uplink	Downlink
LTE700	12/17	698-716MHz	728-746MHz
	13	776-787MHz	746-757MHz
CELL800	5	824-849MHz	869-894MHz

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

⚙ Getting Started

Step 1 **Connect the Power Supply to the Booster**

Power Supply   Signal Booster

Step 2 **Connect the Booster with the App**

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

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 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 screenshots as required.

3.2 Find the cell tower

(1) Enter cellmapper.net

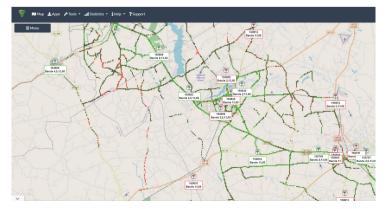(2) Choose your own carrier and band here.

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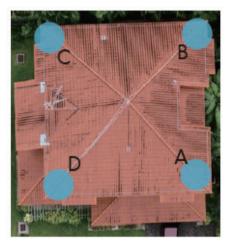
Note: If you need help finding the tower, please contact our tech support and provide your carrier, band and screenshots taken in the last steps.

3.3 Determine the outdoor antenna's position
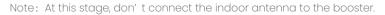
The outdoor antenna is usually placed at one of the 4 ends of the roof.

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

. . . .
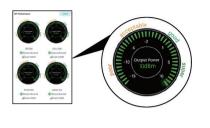
Step 4 *Connect the outdoor antenna with the booster*

Outdoor Antenna	Outdoor Cable	Signal Booster
	49.2ft SMAM-NM	

Note：At this stage, don't connect the indoor antenna to the booster.
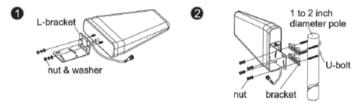
Step 5   *Adjust and fix the Outdoor Antenna*
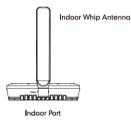
Have your outdoor antenna pointed to the cell tower you found before and observe the reading on the app. Adjust the outdoor antenna accordingly.

Notes:
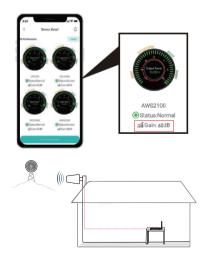
(1) The output power should be the higher the better.
(2) The full output power for Dot is 10dBm. And the full gain is 60dB.


- ❶ L-bracket, nut & washer
- ❷ 1 to 2 inch diameter pole, U-bolt, nut, bracket

Step 6   *Connect the indoor antenna with the booster*

Indoor Whip Antenna

Indoor Port

Step 7   *Adjust the indoor antenna*

Place the signal booster on a table and make sure the booster is within the coverage area.

Make sure that the gain reaches about 60dB. If not, please increase the vertical and horizontal distance between the two antennas or add some barriers.

Step 8   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.

4 Regular Problems and 1 normal status

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

OVERLOAD					
	DL GAIN	OUTPUT POWER	LED LIGHT PATTERN	REASON	SOLUTION
LTE700	<60dB	>=8dBm	ISO（Alarm）light blinking red	Outdoor signal is too strong	Have your outdoor antenna pointed slightly away from the cell tower
CELL800	<60dB	>=8dBm			

LOOP BACK					
	DL GAIN	OUTPUT POWER	LED LIGHT PATTERN	REASON	SOLUTION
LTE700	<60dB	<8dBm	ISO（Alarm）light blinking blue or red	Inadequate separation of the indoor and outdoor antennas	1、Increase vertical and horizontal distance. 2、Add barriers(e.g. walls) Please try these solutions until the gain reaches or is over 60dB.
CELL800	<60dB	<8dBm			

POOR SIGNAL					
	DL GAIN	OUTPUT POWER	LED LIGHT PATTERN	REASON	SOLUTION
LTE700	>=60dB	--/NEGATIVE	ISO（Alarm）light solid blue	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 | >=60dB | --/NEGATIVE | | | |

Normal but No Boosted Signal					
	DL GAIN	OUTPUT POWER	LED LIGHT PATTERN	REASON	SOLUTION
LTE700	>=60dB	>=-5dBm	ISO（Alarm）light solid blue	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	>=60dB	>=-5dBm			

NORMAL					
	DL GAIN	OUTPUT POWER	LED LIGHT PATTERN	REASON	SOLUTION
LTE700	>=60dB	>=-5dBm	ISO（Alarm）light solid blue		
CELL800	>=60dB	>=-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.

Technical Specifications

Model No.	Dot
Working Band	Band 5 / Band 12 / Band 13
UL Frequency Range(MHz)	824-849/698-716/776-787
DL Frequency Range(MHz)	869-894/728-746/746-757
Supported Standards	CDMA, LTE
Max. Gain	60 dB
Max. output power	UL 18 dBm,DL 10dBm
MGC (Step Attenuation)	≥ 25 dB / 1 dB step
I/O Port	SMA-Female
Impedance	50 ohm
Environment Conditions	IP40
Dimensions	6.77*4.41*0.75in
Weight	≤ 3.3 lbs / 1.5 kg
Power Supply	Input AC100~240 V, 50/60 Hz, Output DC 5 V / 3 A

⚙ For more information

Download Signal Supervisor or enter our website.

www.hiboost.com.

a. You can download the specific user manual.

b. You can reach our technical support for help.

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