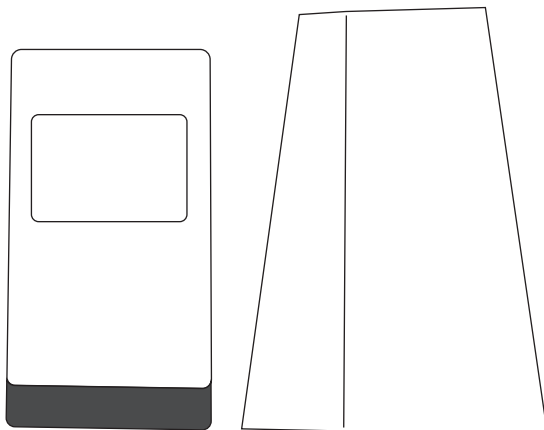


User Manual

Cell Phone Signal Booster



English 1-22

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Internal No. F40-OL

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Package Contents

Please confirm that your purchase includes the following items:



Booster



Outdoor Log-period
Antenna



Short Cabel *1



Long Cable *1



Window Entry
Cable



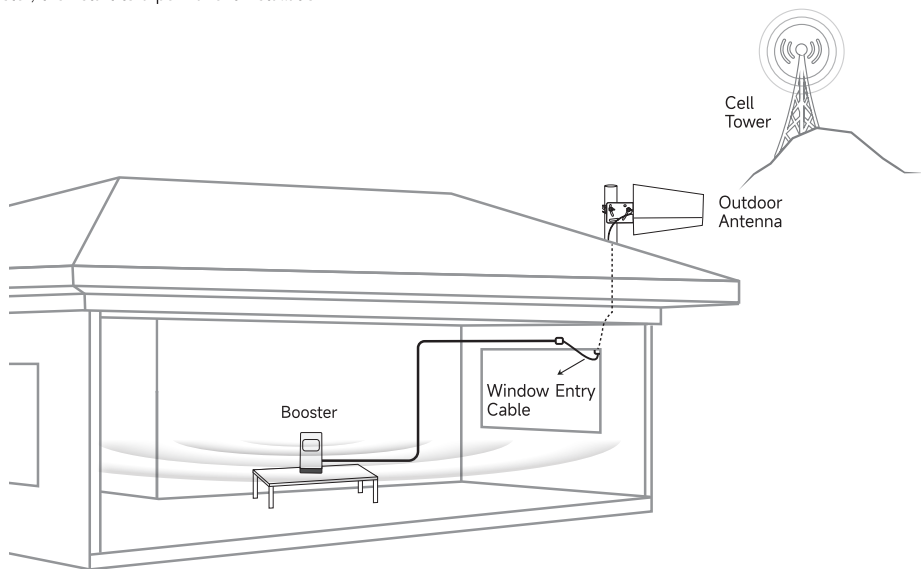
Power Supply



Mount Bracket for
Outdoor Antenna

Installation Overview

We strongly recommend that you through a soft install process to find the optimal locations for the outdoor antenna and booster, then start to a permanent installation.



Before Getting Started

The whole installation process may take 1 to 2 hours, and 2 people will be easier to calibrate the position and direction of the antenna. Make sure the following materials are prepared and ready for your installation.



1. 2 inches diameter mount pole



2. Phillips-head screwdriver



3. Adjustable wrench or open-end wrench



4. Drill (if routing cable through wall)

Installation

Step 1

Find the Location with
the Strongest Signal



Step 2

Mount the Outdoor
Antenna



Step 3

Mount the Signal
Booster



Step 6

Measuring Booster
Performance



Step 5

Connect the Booster
to APP



Step 4

Connect & Route Cable and
Power Up the Booster

Note: Do not power on the booster until system is fully installed.

Download the Signal Advisor APP

Download the **Signal Advisor** App to guide you through setting up the cell phone signal booster.



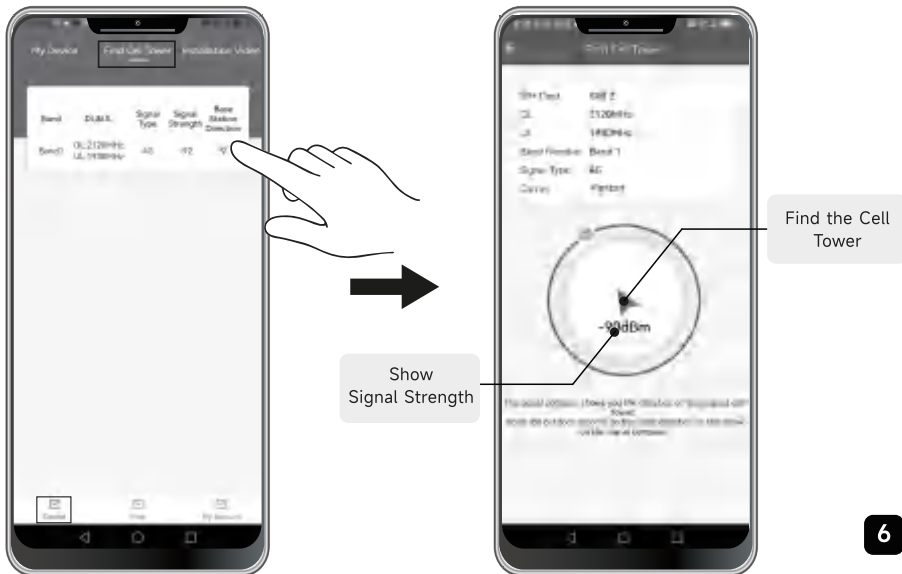
APP Display & Control Function

APP Page	Function
My Device	Adjust the gain for each frequency band, monitor the booster's operating status, and check the isolation between booster and outdoor antenna.
Find Cell Tower	Help you find the best installation location of outdoor antenna, and check the frequency band of your Android phone.
Installation Video	Watch guide videos to help you complete installation.
Help	Send messages to us if you have any queries or are experiencing any problems.

Step 1 Find Location with the Strongest Signal

Find the location with the strongest signal outside your building for placement of your outdoor antenna. Generally, it is found above the roof line on the side facing the nearest cell tower and as high as possible. Use our **Signal Advisor** App to find the location of your carrier's nearest cell tower.

• For Android:



- For iPhone:



Step 2 Mount the Outdoor Directional Log-Periodic Antenna

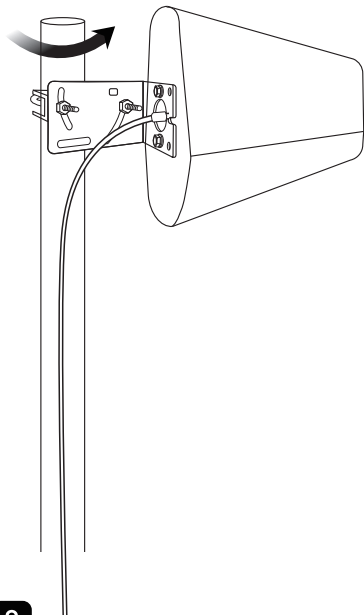
Before you begin, please note that you may require a mast on which to mount the outdoor antenna. One has not been provided and may be obtained by a 3rd party.

After identifying the location with the strongest signal, decide the installation location for your outdoor antenna. It should allow for sufficient isolation between outdoor antenna and booster. Vertical isolation is preferred as it is more effective than horizontal.

The Directional Log-Periodic Antenna should be mounted at the highest possible location above the roof line and point towards the direction of your carrier's nearest cell tower. **This is the most critical step of installation process because it will determine the overall performance of the booster.**

Note:

1. The greater the isolation between outdoor antenna and booster, the better performance you will get from the booster.
2. Make sure the Outdoor Antenna and Booster are facing away from each other.



Step 3 Mount the Signal Booster

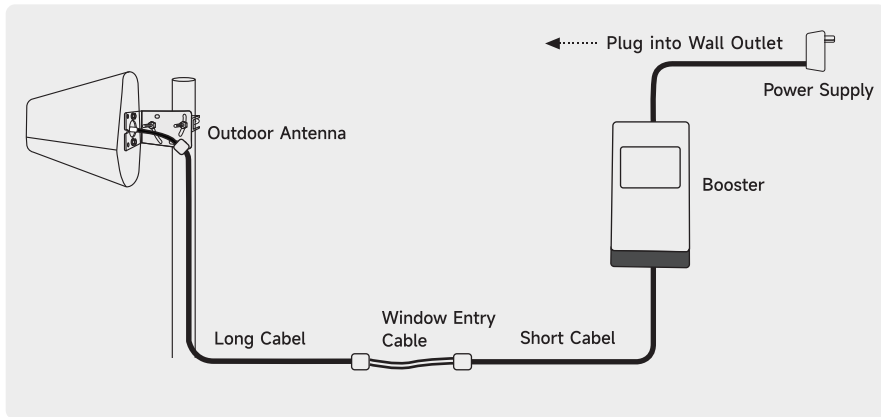
Select a location for the Signal Booster that is away from excessive heat, direct sunlight, moisture and well ventilated. The enclosure must NOT be air tight. Also, be sure the location is near a power source.

Note:

1. The booster features a built-in omnidirectional antenna, place the booster in a central location where signal is needed to maximize coverage.
2. Further separation between the booster and outdoor antenna will increase booster performance.
3. The "INDOOR" Port allows you to expand coverage by adding extra indoor antennas based on your needs.

Step 4 Connect & Route Cable and Power Up the Booster

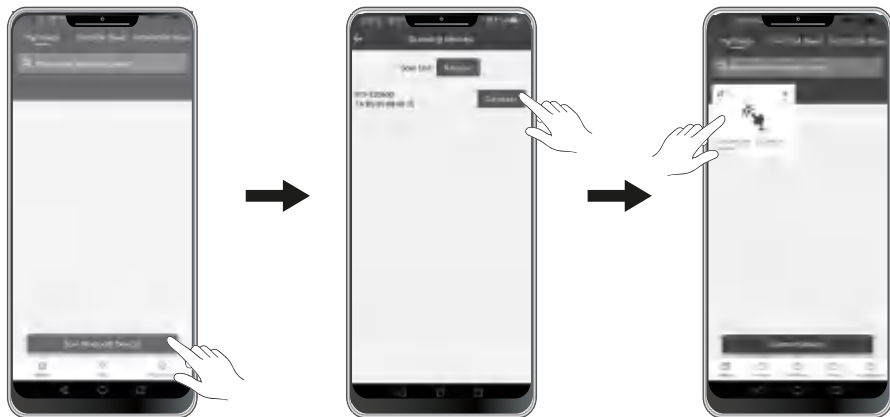
Connect cables to outdoor antenna and booster. All connections should be finger tightened only. Connect the Power Supply to the Booster and plug it into wall outlet.



A **Window Entry Cable** is provided to help route cable into house easier. Route cable to booster, please connect it to the connector labelled 'OUTDOOR'.

Step 5 Connect the Booster to APP

Connect the booster to the Signal Adviser app, and check the operational status of the system.



Note: Please get as close as possible to the signal booster when connecting.

Green: The booster is functioning properly and there are no issues with installation.

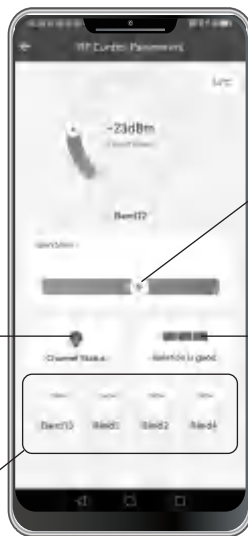
Red: Click the "Channel Status" icon to view details and troubleshooting options.

Adjust the Gain

Green: Isolation is good and there are no issues with installation.

Red: Isolation is poor, antennas must be adjusted. Wait 30 seconds between adjustments for the status to reset.

Switch Band



Step 6 Measuring Booster Performance & Optimizing the System

Compare the signal strength numbers below you took in the same part of the house. If the signal strength number with booster is higher (closer to zero) than the original reading without booster, your booster is working.

Methods to get signal strength as a number:

- **For iPhone:**

Dial ***3001#12345#*** and press the call button → Choose "All Metrics" → Click "Serving Cell Meas" → Check "rsrp0".

- **For Android Phone:**

Settings > About Phone > Status or Network > Signal Strength or Network Type and Strength (exact options/wording depends on phone model).

Signal Strength without Booster

Note here: _____

Signal Strength with Booster

Note here: _____

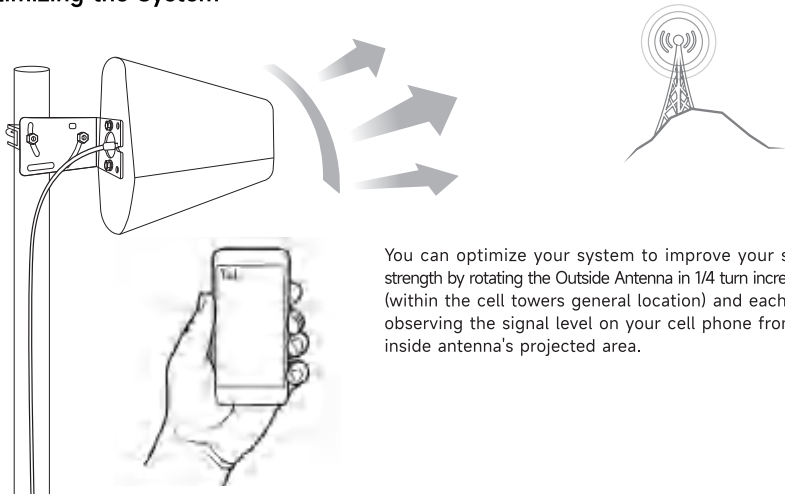
Note: Having an accurate measurement of signal strength in decibels (dBm) is crucial when measuring the performance of the booster. Decibels accurately measure the signal strength you are receiving, bars are not always a reliable measure of signal.

SIGNAL STRENGTH	EXCELLENT 	GOOD 	FAIR 	POOR 	DEAD ZONE 
3G/1x	-70dBm	-71 to -85dBm	-86 to -100dBm	-101to -109dBm	-110dBm
4G/LTE	-90dBm	-91 to -105dBm	-106 to -110dBm	-111 to -119dBm	-120dBm

How to Measure Performance of the Booster?

Gain Improvement	Signal Improvement
3dB	2X
6dB	4X
10dB	10X
20dB	100X

Optimizing the System



Troubleshooting

Problem	Resolution
Indoor signal strength has not improved	1. Verify that the frequency of the booster matches that of your phone. You can check the frequency band of your phone by following these steps: For iPhone: Dial *3001#12345#* and press the call button → Choose "All Metrics" → Click "Serving Cell Info" → Check "Band Info". For Android phones: Download and install the app "Network Cell Info Lite" → Tap on "GAUGE" → Check "Band". 2. Verify that there are usable signals where the outside antenna is placed, the best is that you have the ability to place and hold a call. 3. Verify that cable connections are tightly fitted to the booster and antenna. 4. Check if the installation is correct, if not sure, please contact us.
Indoor signal coverage is too narrow	1. Identify a location outside that receives a stronger signal and move the outdoor antenna to that location (higher is usually better). 2. Increase the distance between the booster and outdoor antenna - vertical separation is better than horizontal. 3. Add an extra indoor antenna to expand your coverage.

Warranty

30-day money-back guarantee

90-day free replacement

2-year manufacturer warranty

Our Signal Boosters are warranted for 2 years against defects in workmanship or materials. Warranty cases may be resolved by returning the product directly to the manufacturer at the consumer's expense, with a dated proof of purchase and an Order Number supplied. We will either repair or replace the product at its option. This warranty does not apply to any Signal Boosters have been subjected to misuse, abuse, neglect, or mishandling that alters or damages physical or electronic properties. Replacement products may include refurbished products that have been re-certified to conform with product specifications. This limited warranty provided by the manufacturer will not affect a potential statutory warranty provided by law.

You can enjoy an extra 1-year warranty and priority customer support after registering the booster on our website.

Note:

1. Only for customers that bought the product at FULL PRICE through our Official Seller on Amazon.
2. The 3-year Warranty is only for the MAIN BOOSTER, EXCLUDING antennas, cables and power supply.



signaladvisor@outlook.com



<https://www.signaladvisor.net>

Safety Guidelines

FCC Statement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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:

- Reorient 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

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 complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Consumer Signal Booster Warning Label:

If the booster has this label (all consumer boosters sold after March 1, 2014, and some sold prior will have this label):



1. Verify that your provider has given permission (e.g., AT&T, Sprint, T-Mobile, Verizon) , or else get permission from your wireless provider to use it.
2. Register your booster with your wireless provider before turning it on. Each wireless provider that gives permission for boosters to be used must provide a free registration system.

Note: Verizon Wireless, AT&T, Sprint, and T-Mobile have approved all boosters that contain the label, so you do not need to get approval again.

You can learn more about the FCC's new rules by following the link:

<https://www.fcc.gov/wireless/bureau-divisions/mobility-division/signal-boosters/consumer-signal-boosters>

IC Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(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.

The term IC: before the certification/registration number only signifies that the Industry Canada technical specifications were met. This product meets the applicable Industry Canada technical specifications.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet appareil contient des émetteurs/récepteurs exemptés de licence conformes aux RSS (RSS) d'Innovation, Sciences et Développement économique Canada. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit 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.

Le terme IC : devant le numéro de certification/d'enregistrement signifie uniquement que les spécifications techniques d'Industrie Canada ont été respectées. Ce produit répond aux spécifications techniques applicables d'Industrie Canada.

Cet équipement est conforme aux limites d'exposition aux rayonnements ISED établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.

FOR MORE INFORMATION ON REQUIREMENTS SET OUT IN ISED CPC-2-1-05, SEE BELOW:

<https://ised-isde.canada.ca/site/spectrum-management-telecommunications/en/learn-more/key-documents/procedures/client-procedures-circulars-cpc/cpc-2-1-05-zone-enhancers>

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. If you are unsure, contact your provider.

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

You **MUST** operate this device with approved antennas and cables as specified by the manufacturer. Antenna **MUST** be installed at least 20 cm (8 inches) from any person.

You **MUST** cease operating this device immediately if requested by the ISED 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 for in-building use.

Note: Verizon Wireless, AT&T, Sprint, and T-Mobile have approved all boosters that contain the label, so you do not need to get approval again.

CE Certification

The cell booster has CE certification which prove it compliance with the international safety legislation.

(1) Usage Restrictions

The equipment known as mobile phone repeaters, retransmitters, or amplifiers (GSM, 3G, 4G, LTE, 5G), which are marketed to improve the coverage of mobile telephone and data services indoors or in remote locations, are radio stations that operate in licensed frequency bands (not for free use).

Operators with concessions for the use of spectrum in these frequency bands are the only ones authorized to install and operate this type of radio stations for the amplification of mobile telephone and data signals, subject to compliance with the requirements established by the regulations. No other person or entity may carry out such activity.

Therefore, individuals and companies intending to install this type of mobile phone repeater are informed that the only option is to contact the service operators directly, so that they can carry out the installation, including the legally established procedures for the station that can provide coverage in the indicated area. It is not possible carry out this installation privately to expand coverage, regardless of the time elapsed after contacting the operators.

In addition, companies marketing this type of equipment are hereby notified that mobile phone repeaters marketed in EU countries must include information on commissioning restrictions in their instructions, in addition to indicating the existence of such restrictions on their packaging using the mandatory pictogram established in Implementing Regulation (EU) 2017/1354.

		
ES	FR	DE
IT	BE	NL
PL	PT	LU

(2) SIMPLIFIED DECLARATION OF CONFORMITY

Hereby, **[Phonetone Technology (Shenzhen) Co., Ltd.]** declares that the type of radio equipment **[Cell Phone Signal Booster]** is in conformity with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:
<https://www.signaladvisor.net/pages/download>

Specifications

Name	Type	Model	Gain/Loss
Outdoor Antenna	Log Periodic Antenna	AN-201	7dBi @698-787MHz
			7dBi @824-894MHz
			7dBi @1710-1755MHz
			7dBi @1850-1995MHz
			7dBi @2110-2155MHz
			7dBi @2500-2690Hz
Outdoor Cable	5 meter 4D-FB Coaxial Cable SMA male/SMA female	4D-FB-5SMAM/SMAM	1.3dB @698-787MHz
			1.5dB @824-894MHz
			2.0dB @1710-1780MHz
			2.1dB @1850-1995MHz
			2.2dB @2110-2200MHz
			2.5dB @2500-2690Hz
	15 meter 4D-FB Coaxial Cable SMA male/SMA male	4D-FB-15SMAM/SMAF	3.3dB @698-787MHz
			3.7dB @824-894MHz
			5.5dB @1710-1780MHz
			5.7dB @1850-1995MHz
			6.1dB @2110-2200MHz
			6.6dB @2500-2690Hz
	0.3meter RG316 Window Entry Cable SMA male /SMA female	RG316-1SMAM/SMAF	0.32dB @698-787MHz
			0.36dB @824-894MHz
			0.55dB @1710-1780MHz
			0.59dB @1850-1995MHz
			0.62dB @2110-2200MHz
			0.8dB @2500-2690Hz