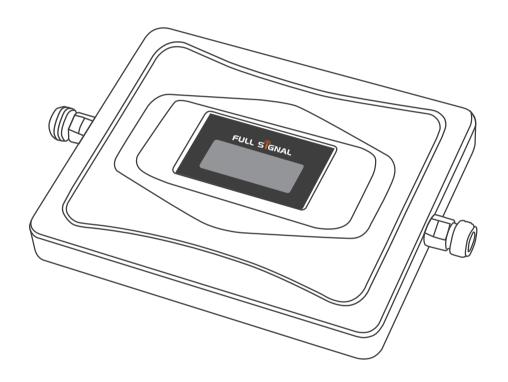


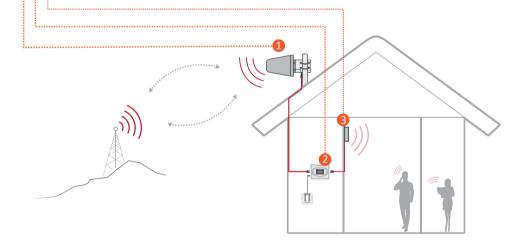
Cell Phone Signal Booster





How Full Signal Booster works

- 1. Outdoor antenna receives outside signal from the nearby cell tower and sends it to Full Signal Booster
 - 2. The booster amplifies the signal and sends to indoor antenna
 - 3. Indoor antenna receives amplified signal and send it throughout your rooms.



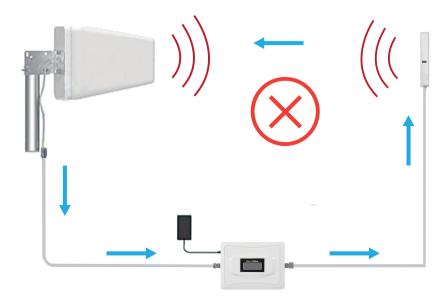
Vice versa, indoor antenna receives cellphone signal and sends to the booster. The booster then amplifies the signal and sends it to outdoor antenna. Outdoor antenna sends signal to the cell tower Then you can make phone calls and internet streaming.

Important Knowledge before Installatione



In order to make a successful installation, there is a most critical information you need to know- You should Prevent Self-oscillation during installation.

Self-oscillation happens when outdoor antenna and indoor antenna are installed too close to each other. When self-oscillation happens, instead of picking up signal from the Operator Cellular Tower, the outdoor antenna picks up the transmitted signal from the indoor antenna, and repeatedly boosted, thus it will generate a signal loop with a lot of noise which is called Self-oscillation. When self-Oscillation happens, the booster will not boost useful signal from your cellular operator, so the system will not work.

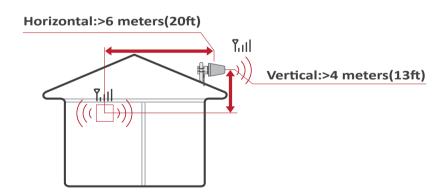


To prevent self-oscillation during the installation of a cellular signal booster, it is crucial to follow the given guidelines:

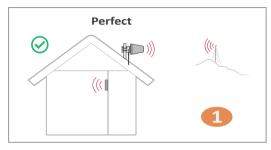
- **1.** Outdoor antenna and indoor antenna need to be separated with an object or a distance. It is essential to have a physical barrier, such as a wall, between the outdoor and indoor antennas. This helps to prevent the transmitted signal from the indoor antenna from being picked up and amplified by the outdoor antenna.
- **2.** Outdoor antenna and indoor antenna should not point to each other: Ensure that the outdoor antenna and indoor antenna are not facing each other directly. This reduces the chances of the outdoor antenna picking up the signal transmitted by the indoor antenna.
- **3.** Maintain a minimum required separation distance: The outdoor antenna should be placed as far away as possible from the indoor antenna to minimize the risk of self-oscillation. The minimum recommended separation distances are:

Horizontal Distance: 20 feet (6 meters)

Vertical Distance: 13 feet (4 meters)



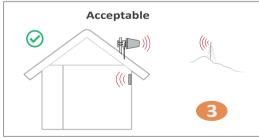
By adhering to these guidelines, you can prevent self-oscillation and ensure that the cellular signal booster functions effectively by amplifying the signal from the cellular operator rather than creating a loop with noise.



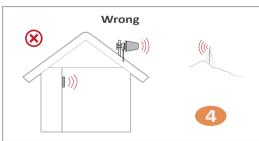
- 1. Point to the tower
- 2. Antennas back to back
- 3. Two wall barriers



Not pointing to the tower



- 1. Point to the tower
- 2. Antennas back to back
- 3. No barriers, make sure vertical distance enough



- 1. Two antennas facing the same direction
- Vertical distance might not be enough

Packge Contents



Cellular Signal Booster



Inside Antenna



75'& 60' Cables



Outside Antenna



Power Supply



Outside Antenna Mounting Bracket

QUICK INSTALLATION GUIDE

01

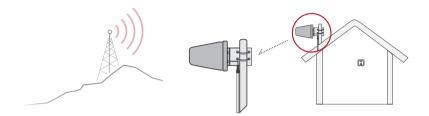
Select the Location for the outside Antenna



Note: This is the most critical step and will determine the performance of your cellular signal booster. To select the ideal position, follow these steps:

- **1.Find the Spot.** Walk around your house with your cell phone, paying attention to the signal strength displayed on your phone. Look for a location where your phone receives the strongest signal, at least 3-4 signal bars.
- **2.Check call quality.** Make a few phone calls from that location, ensure the calls are clear and stable, this will be the ideal placement for the outdoor antenna.

Install the outdoor Antenna



Install the outdoor antenna on the roof

Install the outdoor antenna on the roof of your house directly above the location where you found in Step 1. Make sure to point the antenna towards the direction of your cellular operator's tower. Connect the outdoor cable to the antenna securely. Ensure that the connection is tight and properly fastened. Waterproof the connectors with tapes.

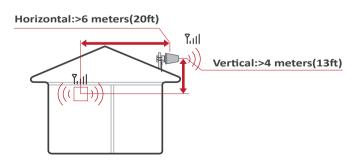
Please note the following important considerations:

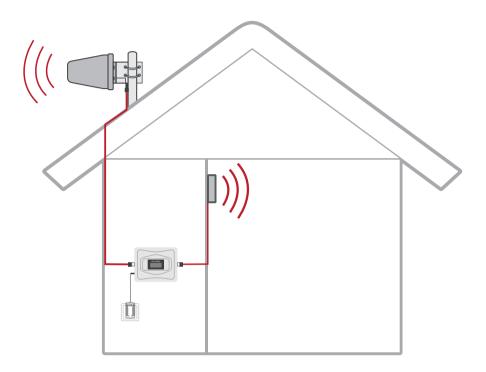
1.It is crucial to have a sufficient separation distance between the outdoor and indoor antennas. The minimum recommended distances are as follows:

· Straight line distance: Over 30 feet (10 meters)

Horizontal distance: 20 feet (6 meters)
Vertical distance: 13 feet (4 meters)

2.To prevent the risk of lightning strikes, the height of the outdoor antenna should be lower than the highest point of your house.

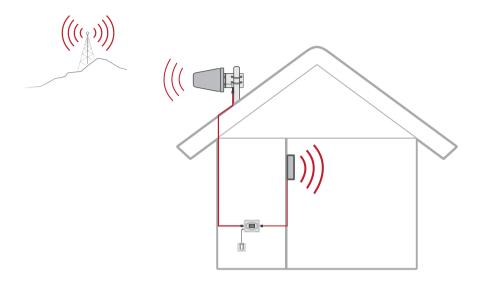




Place the indoor antenna at where strong signal is needed most. The Indoor Antenna is a directional antenna, it needs to be installed on the wall. Choosing a location facing all over your home will help to maximize your coverage area.

Note:

- **1)** Make sure the Outdoor Antenna and Indoor Antenna are not facing to each other.
- **2)**Make sure there is sufficient separation between the Outdoor Antenna and Indoor Antenna.



Connect the outdoor antenna cable to the "OUTDOOR" port on the cellular signal booster. Connect the indoor antenna cable to the "INDOOR" port on the cellular signal booster. Make sure the connection is tight to maintain good signal transmission. Then power on the booster and check the signal strength in your desired area.



	ISO	Input	Output
CH1	411	-50	88
CH2		-50	80
		-50	80

1. Signal Bars

The signal bars on the LCD screen of the repeater indicate the signal strength picked up by the outdoor antenna. More bars represent better coverage that the repeater can produce. Aim for at least 3-4 signal bars to achieve optimal performance. If you're not receiving ideal signal reception, try rotating the outdoor antenna to different directions until you achieve better signal reception.

2. Input Range

The input range of-50 to-70dB represents the signal strength received by the booster. For better coverage, aim for a signal strength around-60dB or higher. This indicates a stronger input signal for the repeater to amplify.

3. Output Range

The output range of 0-20dBm represents the power level at which the booster is transmitting the amplified signal. For better coverage results, aim for an output power around 10dBm or higher. This ensures a stronger and more reliable signal distribution throughout the indoor area.

4. Isolation (ISO)

The ISO sign represents the isolation between the outdoor antenna and the indoor antenna. When the ISO indicator is on, it indicates that the separation between the antennas is insufficient, which can result in poor coverage. To address this, increase the distance between the antennas and ensure they are not facing each other. This helps to minimize interference and maximize the effectiveness of the repeater.



Important guidelines and regulations for the safe and proper use of the cellular repeater.

- **1.**Power Supply: Only use the power supply provided with the repeater package. Using any other power supply may result in improper functioning or damage to the device.
- **2.**Antenna Safety: Ensure that any antenna used with the repeater is located at least 8 inches (20 centimeters) away from all persons. This is to minimize potential exposure to radio frequency (RF) energy.
- **3.**Compliance with FCC Rules: The repeater has been tested and found to comply with the limits set for a class B digital device under Part 15 of the FCC Rules. These limits are designed to protect against harmful interference in residential installations.
- **4.**Harmful Interference: If the repeater causes interference to network operators or other communication systems, it is recommended to take the following measures:
 - Relocate the Outdoor Antenna.
- Increase the separation between the Outdoor Antenna and Indoor Antenna.
- Seek assistance from the supplier or local installers for further guidance.
- **5.**Compliance with Regulatory Requests: If requested by the FCC (or ISED in Canada) or a licensed wireless service provider, it is mandatory to cease operating the device.

It is crucial to adhere to these guidelines to ensure proper functionality, minimize interference, and comply with regulatory requirements. If you have any specific concerns or questions, it is advisable to consult the supplier or seek assistance from local professionals experienced in installing and operating cellular repeaters.

Trouble Shooting

FAQ	Solution		
After installation, the signal improvement is not significant, and the indoor coverage area is limited	1. Adjust the position or direction of the outdoor antenna, try to get a better signal reception. 2. Check if the cables are properly connected. 3. Raise the outdoor antenna so that it can receive better signal. 4. Replace a higher gain outdoor antenna		
The phone signal is full, but the call quality is poor	Check the Booster LCD screen, if the ISO sign is on, it indicates that the separation between the antennas is insufficient. It is essential to increase the distance between the antennas, or increase physical barriers, such as a wall, between the outdoor and indoor antennas. Make sure the antennas are not facing to each other, then restart the booster.		
After installation, the signal did not improve, but it was worse	Check the Booster LCD screen, if the ISO sign is on, it indicates that the separation between the antennas is insufficient. It is essential to increase the distance between the antennas, or increase physical barriers, such as a wall, between the outdoor and indoor antennas. Make sure the antennas are not facing to each other, then restart the booster.		
I have been using it normally before, but suddenly the signal is not good after using it for a period of time	1. Check the cable connections. 2. Check if the outdoor cable is installed securely without damage. 3. Check if LCD indicator is normal, if it is off, booster device need to be sent to supplier for repair.		

Product Specifications

Model: S3-A

Network: cellular/Broadband PCS/Low A-E Blocks/ 700 MHz Upper C Block

Model No.	S3-A				
Working Band	Cellular	700 MHz Upper C Block	Broadband PCS	Low A-E Blocks	
UL Frequency Range (MHz)	824-849	777-787	1850-1915	699 - 716	
DL Frquency Range (MHz)	869-894	746-756	1930-1995	729 - 746	
Maximum Gain	67±3 dB				
Maximum Output Power	20±1 dBm				
AGC Range	≥30dB				
Ripple in Band	≤7dB				
Impediance	50 ohm				
I/O Port	N-Feamle				
\Moight	Booster Device ≤1.0Kg				
Weight	Whole Kit ≤4.5 kg				
Dimension	180 × 120 × 25 m				
Power Supply	AC: 100-240 V, 50/60Hz, Output DC 5V/2A				
Environmental Condition	Booster: IP40				
	Antenna: IP65				

(1)Usage of unauthorized antennas, cables, and/or coupling devices may result in poor effect and, insevere cases, equipment damage.

(2) a complete list of authorized antennas, cables, and/or coupling devices:

Name		Model	Gain/Loss	Photo
Indoor Antenna	Panel Antenna (defauit)	TX.BG.2	9dbi@698-2700MHz	
Outdoor Antenna	Log-periodic Antenna (default)	TX.DS.2	10dbi@698-2700MHz	Ö
cable	Coaxial cable with N male cennector (default)	X.13B1	3dbi@698-2700MHz	0

(3)the default antenna, cable, and/or coupling device that are shipped with the booster Log-periodic Antenna, Panel Antenna and CoaxialCable.

(4) The antenna is equipped with a U-shaped mounting bracket. The log-periodic antenna should be installed in a place with good outdoor signal. The panel antenna should be installed indoors and near the main device. If the amplification effect is not good after the installation is completed, the direction of the log-periodic antenna can be gradually adjusted to achieve better effect.

(5) The device has automatic sleep function, strong anti-interference ability, over-power protection function, good heat dissipation design, and no radiation. The working noise is as low as 6DB.

CPC-2-1-05 — Zone Enhancers - Spectrum management and telecommunications http://www.ic.gc.ca/eic/site/smt-gst.nst/eng/sf08942.html

Warning:Unauthorized antennas/cables and/or coupling devices are prohibited by FCC rules. Please contact FCC for details: 1-888-CALL-FCC

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 should be installed and operated with a minumum distance of 20cm between the radiator and your body.

The antenna for the device must be installed to comply with the 10 meter above ground maximum antenna height limitation

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance of 20 cmbetween the radiator and your body. This transmitter must not be co-located or operating inconjunction with any other antenna or transmitter

This device complies with Industry 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 undesiredoperation of the device.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisee aux deux conditions suivantes:

(1) l'appareil ne doit pas produire de brouillage, et

(2) 'utilisateur de 'appareil doit accepter tout brouillage radioelectrique subi, meme si lebrouillage est susceptible d'en compromettre le fonctionnement

1) For Consumer Zone Enhancers:

This is a CONSUMER device.

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

This device MUST ONLY be operated with approved antennas and cables as specified by the manufacturer. Antennas must be installed in a way where the minimum separation distance between the antennas and a user (or bystander) specified by the manufacturer is ALWAYS maintained.

In order to reduce oscillations it is recommended that sufficient separation distance is maintained between the donor and server antennas of the zone enhancer system.

You MUST cease operation of this device immediately if requested by 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.

Ce produit est un appareil GRAND PUBLIC.

AVANT DE L' UTILISER, vous devez vous conformer à toutes les exigences établies dans la CPC 2-1-05.

Cet appareil NE DOIT ETRE UTILISÉ qu' avec des antennes et des càbles approuvés, conformément aux indications du fabricant. Les antennes doivent être installées de manière àce que la distance minimale de séparation entre les antennes et un utilisateur (ou un passant) spécifiée par le fabricant soit TOUJOURS respectée.

Afin de réduire les oscillations, il est recommandede maintenir une distance de séparation

suffisante entre les antennes du donateur et du serveur du système d'enrichisseur de zone.

Vous DEVEZ cesser d' utiliser cet appareil immédiatement à la demande d' ISDE ou d' un fournisseurde services sans fil autorisé. AVERTISSEMENT: Les informations relatives à la localisation pour le service E911 peuvent être non fournies ou inexactes pour les appels transitant par cet appareil.

2) For Consumer Zone Enhancers certified for fixed operation, in addition to the text specified under item 1, the following text shall also be included:

This device may operate in a fixed location only, for in-building use.

Cet appareil peut fonctionner seulement aun emplacement fixe à l'intérieur d'un bâtiment.

label:

Cellular: Uplink: 824MHz - 849MHz, Downlink: 869MHz - 894MHz-

Broadband PCS Uplink: 1850-1915MHz, Downlink: 1930-1995MHz-

Low A-E Blocks: 699-716MHz, Downlink: 729-746MHz

700 MHz Upper C Block: 777-787MHz, Downlink: 746-756MHz

Product: Cell Phone Signal Booster Model: S3-A

FCC ID: 2BB6MS3-A IC: 31014-S3A Made in China-

the antenna for the device must be installed to comply with the 10 meter above ground maximum antenna height limitation ψ

This is a CONSUMER device.

Email:619991099@gg.com

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. $^{\prime\prime}$

Some providers may not consent to the use of this device on their network. If you are unsure, contact your provider. $^{\circ}$

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

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

You MUST cease operating this device immediately if requested by the FCC (or ISED in Canada) or a licensed wireless service provider. $^{\omega}$

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

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

CPC-2- 1-05 – Zone Enhancers - Spectrum management and telecommunications 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

CEREVO TECHNOLOGY LIMITED F22, Tower B, RuiChuangGuoJi Plaza, No.8 WangJing East Road, Chaoyang District, Beijing, China 100102 Contact: Esson Diao Tel: 18218747363

FULL SIGNAL

