



Consumer signal booster

user manual

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WHAT IS INCLUDED

1. Booster C27G-CPAL-AB-C
2. Outdoor Magnet Mount 5dbi Whip Antenna
3. Indoor Sticker Mount Panel 3dbi Mobile Antenna
4. DC Power Adapter

1 HOW IT WORKS

The cellular booster provides reliable two-way cellular coverage by improving signal strength in homes, buildings, offices, and other areas where cellular reception is weak or unreliable.

The system amplifies the signal from the nearest cellular tower and retransmits at a higher power level within a local area.

This manual provides simple installation instructions that will have your cellular booster kit running in record time.

2 TOOL REQUIRED



Phillips Screwdriver

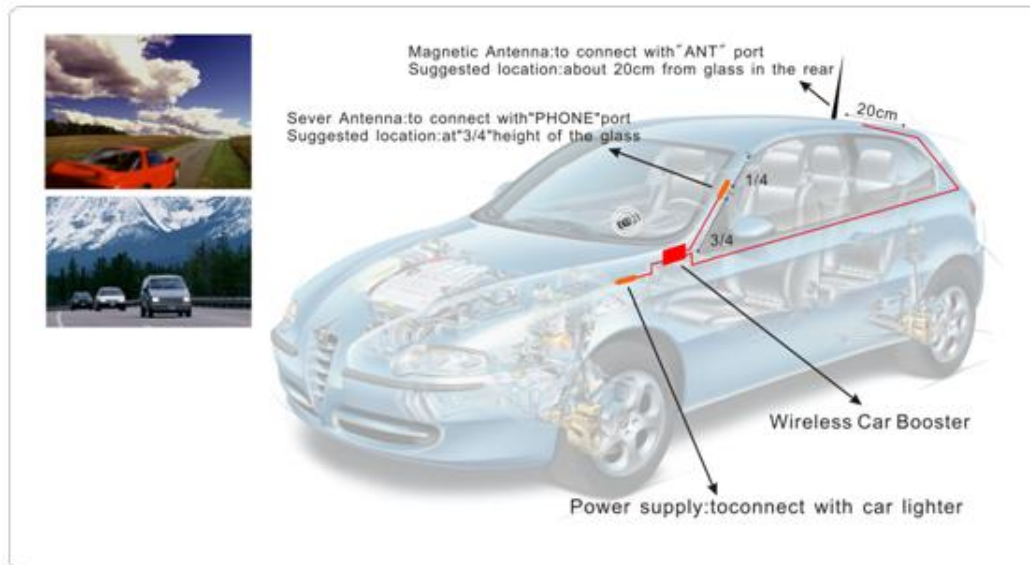


Drill



Cellular Phone (to check
signal strength)

3 HOW TO INSTALL YOUR NEW CELLULAR BOOSTER (for Vehicle installations)



3.1 Outside antenna:

- Adopt the car magnetic antenna or chuch antenna.
- Function: receive the signal from the base station, through the feeder to booster. Meanwhile transmit back the signal to the base station after enlarge the signal.

3.2 Wireless vehicle installations:

Generally, hidden inside the corner nearby the power supply

- Function: two-way, full-duplex amplifier the inside & outside signal of the car, and the maximum uplink is to 2W.

3.3 Inside antenna:

- Adopt the car magnetic antenna or chuch antenna.
- Function: Transmit the enlarger signals to the mobile phone, and receive the uplink car phone signal to booster.

3.4 Feeder

- When install, hide it in the decoration materials or pads.
- Function: Connect the feeder, antenna, and mobile phone seat.

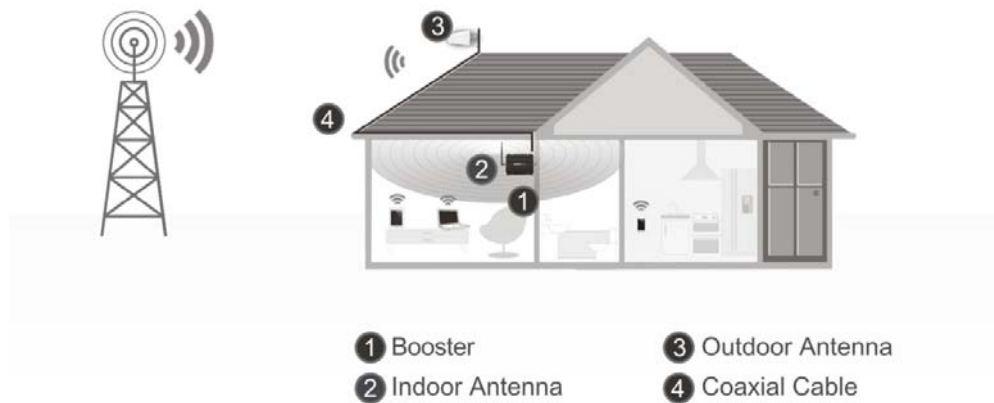
3.5 Power supply

- Adopt the 9V-12V power supply, and it is extremely convenient for direct feed by the car power, also we support the car charger.

3.6 Install note:

When install, try to separate the inside & outside antenna to the max straight distance, and make the inside and outside antenna could not mutual see (also don't mutual see each other through the roof skylight)

4 HOW TO INSTALL YOUR NEW CELLULAR BOOSTER (for Fixed Installations)



4.1 Overview

This guide will help you properly install your cellular booster kit. It is important to read through all of the installation steps before installing your equipment. Thoroughly read through the instructions, visualize where all the equipment will need to be installed and do a soft installation before mounting any equipment.

1

- **BOOSTER – select location**

- Install the booster in an area that is protected from the weather, properly ventilated and is away from excessive heat and moisture.

2

- **DONOR ANTENNA (OUTDOOR)- select location**

- Mount the signal (outdoor) antenna in an elevated outdoor location so that it points towards the cellular tower and away from where the inside antenna will be located.

3

- **OUTDOOR COAXIAL CABLE - select location**

- The outdoor coaxial cable is used to connect the donor (outdoor) antenna to the booster.

4

- **INDOOR COAXIAL CABLE- (if used)**

- The indoor coaxial cable is used to connect the server (indoor) antenna to the booster.

5

- **SERVER ANTENNA (indoor)**

- The ideal location for the distribution antenna will be the area of your property where you need to improve the signal most.
- **NOTE:** The signal strength will be strongest closest to the antenna.



- **IMPORTANT:** The signal antenna (outdoor) should always be separated from the distribution antenna (indoor) by at least 20 vertical feet including the separation of a thick barrier such as a roof or a wall. Depending on the strength of your outdoor signal, the weaker the signal the less separation distance is required.

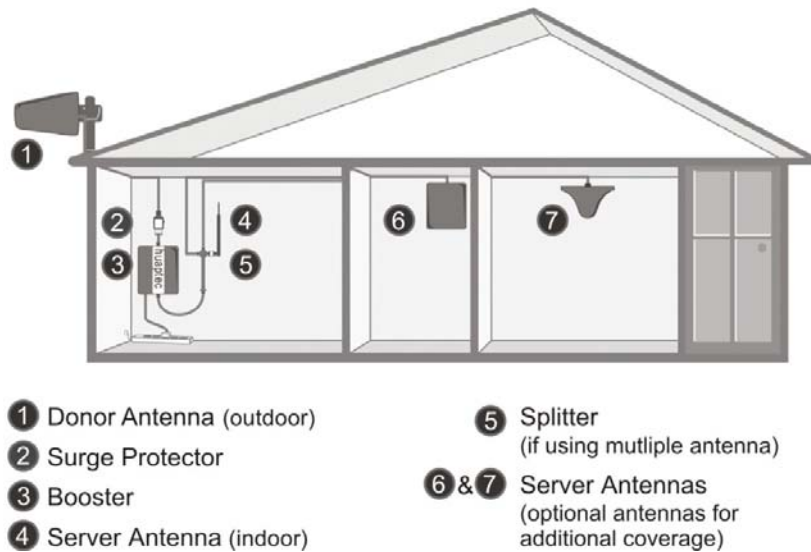
7

- **LIGHTNING SURGE PROTECTOR- (SOLD SEPARATELY)**

- The lightning surge protector connects in between the signal antenna and the booster.
- **IMPORTANT:** Lightning surge protector must be grounded.

8

- **COMMISSIONING THE SYSTEM**



4.2 Plan the layout of your system

Before you get started you will need to plan the layout of your system. This involves checking signal strength for signals coming from the cellular tower, as well as antenna, booster and cable placement.

4.3 Check for Signal Strength

Select a location on the roof of the building to install the signal antenna, by monitoring your cellular phone's signal strength (signal bars) to find the strongest signal from your carrier's cellular tower.

Mark that area as the installation location for the Donor (outdoor)

IMPORTANT: Confirm that you have at least 20 feet of vertical distance between the marked antenna location and the location where you will place the Server (indoor) antenna. To prevent the system from oscillation

(feedback) you want to ensure that there is enough separation between the distribution and signal antenna or that they are shielded from each other to ensure the distribution antenna does not send a signal back into the signal antenna. If you cannot achieve these separations, either choose an alternate location for the donor (outdoor) antenna or determine if there are natural barriers in the building construction itself that will attenuate signals between the two antennas so that oscillation can be prevented.

4.4 Run coaxial cable

Loosely run the coaxial cable from your outdoor antenna to your booster. (After you have tested the system you can permanently secure the coaxial cable).

As you route and pull cabling, follow these general guidelines:

- Bend cables and route them smoothly, and protect the outer skin against any damage.
- Keep horizontal cables straight and fasten them with a tie every three to five feet.
- Bind and fasten vertical cables every six to eight feet.
- Waterproof all outdoor connections with silicone caulking
- Be careful when plugging the connector in so as not to damage the

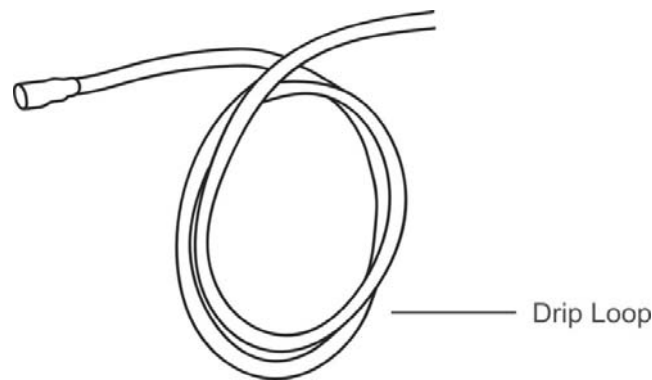
center pins on the connectors.

4.5 Install the Donor (Outdoor) antenna

Connect the supplied coaxial cable to the antenna. We recommend applying silicone caulking to fully waterproof the connection.

Attach the cable in such a way that a drip loop is formed.

Once mounted, connect one end of the coaxial cable to the donor (outdoor) antenna and the other end to the cellular booster where it is marked “outdoor”



4.6 Install the Server (Indoor) antenna

Connect one end of the coaxial cable to the antenna and the other end to the cellular booster where it is marked “indoor”.

Select the installation location of your supplied server (outdoor) antenna based on the following:

Omni Ceiling directional antenna

Place in the center of the area where the signal needs to be amplified.

Panel directional antenna

Place in the outer perimeter of the area the signal needs to be amplified.

Whip Omni directional antenna

Mount directly to the connector marked “indoor” on the cellular booster.

4.7 Install your cellular booster

Install the cellular booster in a location that is properly ventilated and not exposed to excessive heat, moisture and/or direct sunlight. The optimal area would be on a wall located near a power outlet.

It should be mounted in an easily accessible area so it's easy to perform general maintenance with the coaxial cable connections, dip switch settings and power adaptor.

Make sure all cables and antennas are securely connected before commissioning the system.

4.8 Power up your cellular booster

Once all the Following precautions have been taken, power on the cellular booster.

1. Verify that you have left at least 20 feet of vertical separation space between the

- indoor and outdoor antennas.
2. Never point the front of the donor (outdoor) antenna towards the inside of the server (outdoor) antenna.
 3. Verify that the supplied coaxial cables from both the donor (outdoor) antenna and the server (outdoor) antenna are properly connected to the cellular booster before powering it up.
 4. Carefully plug in the supplied power adaptor into the back of the cellular booster where it is marked 'power' and connect the other end to a power outlet.

The LED indicator marked power should light up green.

4.9 Check the Cellular Booster Status

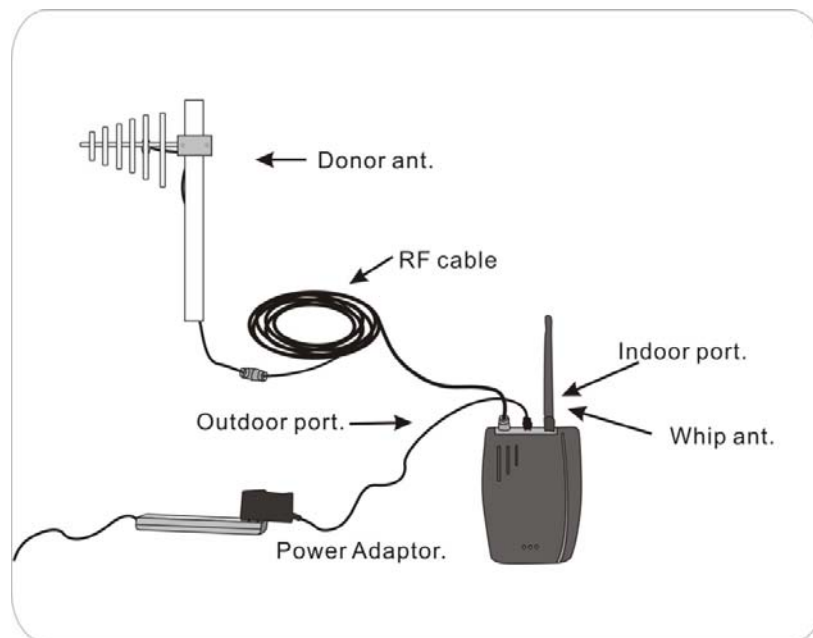
Your cellular booster comes equipped with electronic sensors designed to identify cellular signal overload or oscillation which can hinder signal boosting performance. Your cellular booster is specially designed to automatically decrease gain to compensate for these circumstances. The device also has a feature to automatically shut down in case of excessive oscillation. Improper equipment installation and unusable signal quality can cause oscillation, this is why it is important to fully understand the LED alarm lights on your booster, as they will help you identify and solve any potential issues.

The color of the LED indicates the status of the booster system.

5 UNDERSTAND THE PORTS, MGC DIP SWITCH, LED STATUS

5.1 Repeater ports

- 1) Outdoor port: connected with the donor antenna by cable.
- 2) Indoor port: connected with server antenna directly or by cable.
- 3) DC IN: connected with power supply.



5.2 LED status

1. Status and definition of POWER indicators:

Status	Definition
Green	Normal
Off	DC power problem

2. Status and Definition of ALARM indicators; Alarm LED only works for

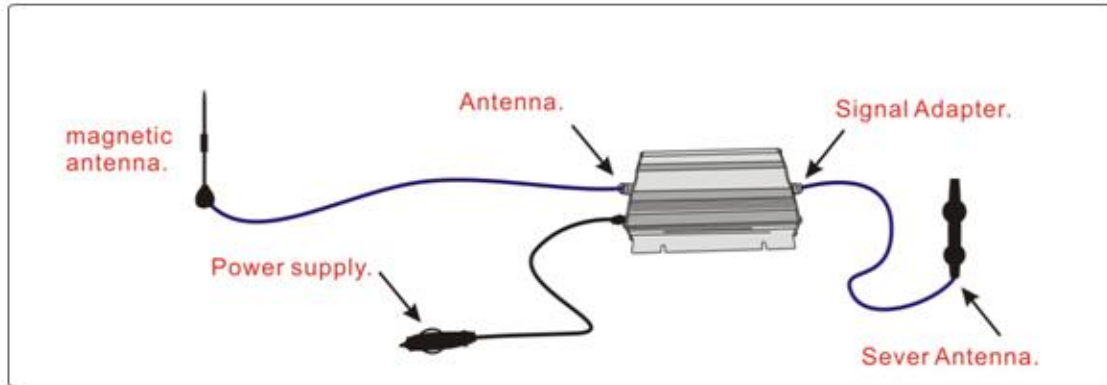
downlink signals

Status	ALARM
Green	It is working in linearity
	attention: Input signals may be not enough
Red	There are overloading or self-oscillation, strong input signals, measures shall be taken
Orange	It is working in linearity
	Attention: Please adjust MGC to increase the attenuation value, till you find the “edge point” (I.E. the Alarm LED shall stay at green color, with intention of turning Orange), and let the repeater work at this point.
Off	Repeater break down

5.3 Device connect

Required connection as shown in below figure:

1. Connect the magnet Antenna SMA male to the SMA female with booster.
2. Plug the smaller one of the car booster into the socket with DC, and another connect to the car power supply.
3. Connect the chuch antenna SMA male to the SMA female of the adapter which marked “Signal Adapter”.



6 **Authorized** Kitting Options

6.1 Donor (Outdoor) **default antenna** for vehicle installations



The Magnet Mount Whip Antenna

The whip antenna is an omni-directional antenna with a 360 degree reach. It is designed to distribute the signal from the center of the affected area. Typically it is connected directly to the booster.

6.2 Donor (Outdoor) antenna for fixed installations



The Yagi Lpda Antenna

The yagi is a very precise directional antenna with a powerful reach. This antenna should be installed in an elevated position and must be pointed towards your carrier's cellular tower.

NOTE: This antenna is not meant to capture signal from multiple carriers.



The Panel Antenna

The panel is a directional antenna with a 120 degree reach and is designed to capture the signal from multiple carrier towers. This antenna should be installed in an elevated position and must be pointed towards your carrier's cellular towers.



Yagi Antenna

The yagi is a very precise directional antenna with a powerful reach. This antenna should be installed in an elevated position and must be pointed towards your carrier's cellular tower.

NOTE: This antenna can only support single band signal booster.

6.3 Server (Indoor) **default antenna** for vehicle installations



The Sticker Mount Panel Mobile Antenna

The mobile antenna is an omni-directional antenna with a 360 degree reach. It is designed to distribute the signal from the center of the affected area. It is connected directly to the booster.

6.4 Server (Indoor) antenna for fixed installations



The Whip Antenna

The whip antenna is an omni-directional antenna with a 360 degree reach. It is designed to distribute the signal from the center of the affected area. Typically it is connected directly to the booster.



The Omni Antenna

The omni antenna is an omni-directional antenna with a 360 degree reach. It is designed to distribute the signal from the center of the affected area. Typically it is installed in a false or dropped ceiling.



The Panel Antenna

The panel is a directional antenna with a 120 degree reach and is designed to distribute the signal from a perimeter wall or ceiling.

6.5 Antenna Kitting Options for vehicle installations

Outdoor **default Antenna** & Cable Kit Options

1. Kit 66-295-0
Outdoor Magnet Mount 5dbi Whip Antenna

Indoor **default Antenna** & Cable Kit Options

1. Kit 3-0
Indoor Sticker Mount Panel 3dbi Mobile Antenna

6.6 Antenna Kitting Options for fixed installations

Outdoor Antenna & Cable Kit Options

1. Kit 11-5050
Outdoor Yagi 11dbi Antenna & 50' 5D Coaxial Cable & SMA male to N female Adapter
2. Kit 10-50400
Outdoor Panel 10dbi Antenna & 50' 400 Coaxial Cable & SMA male to N female Adapter
3. Kit 10-7550
Outdoor Panel 10dbi Antenna & 75' 5D Coaxial Cable & SMA male to N female Adapter
4. Kit 10-10050
Outdoor Panel 10dbi Antenna & 100' 5D Coaxial Cable & SMA male to N female Adapter
5. Kit 9-5050
Outdoor Yagi 9dbi Antenna & 30' 5D Coaxial Cable & SMA male to N female Adapter
6. Kit 9-75400
Outdoor Yagi 9dbi Antenna & 75' 400 Coaxial Cable & SMA male to N female Adapter

7. Kit 9-100400
Outdoor Yagi 9dbi Antenna & 100' 400 Coaxial Cable & SMA male to N female Adapter
8. Kit 9-7550
Outdoor Yagi 9dbi Antenna & 75' 5D Coaxial Cable & SMA male to N female Adapter
9. Kit 9-10050
Outdoor Yagi 9dbi Antenna & 100' 5D Coaxial Cable & SMA male to N female Adapter
10. Kit 5-30400
Outdoor Omni 5dbi Antenna & 30' 400 Coaxial Cable & SMA male to N female Adapter
11. Kit 5-3050
Outdoor Omni 5dbi Antenna & 30' 5D Coaxial Cable & SMA male to N female Adapter
12. Kit 5-50400
Outdoor Omni 5dbi Antenna & 50' 400 Coaxial Cable & SMA male to N female Adapter
13. Kit 5-5050
Outdoor Omni 5dbi Antenna & 50' 5D Coaxial Cable & SMA male to N female Adapter
14. Kit 5-70400
Outdoor Omni 5dbi Antenna & 70' 400 Coaxial Cable & SMA male to N female Adapter
15. Kit 5-100400
Outdoor Omni 5dbi Antenna & 100' 400 Coaxial Cable & SMA male to N female Adapter
16. Kit 5-7550
Outdoor Omni 5dbi Antenna & 75' 50 Coaxial Cable & SMA male to N female Adapter
17. Kit 5-10050
Outdoor Omni 5dbi Antenna & 100' 5D Coaxial Cable & SMA male to N female Adapter

Indoor Antenna & Cable Kit Options

1. Kit 5-0
Indoor Whip 5dbi Antenna
2. Kit 100-1550
Indoor Panel 10dbi Antenna & 15' 5D Coaxial Cable & SMA male to N female Adapter
3. Kit 100-30400
Indoor Panel 10dbi Antenna & 30' 400 Coaxial Cable & SMA male to N female Adapter
4. Kit 100-5050
Indoor Panel 10dbi Antenna & 50' 5D Coaxial Cable & SMA male to N female Adapter
5. Kit 100-7550
Indoor Panel 10dbi Antenna & 75' 5D Coaxial Cable & SMA male to N female Adapter
6. Kit 102-7550-50
2 Indoor Panel 10dbi Antennas & 75' 5D Coaxial Cable & SMA male to N female Adapter & a 50 Ohm 2-ways Splitter
7. Kit 103-7550-75
3 Indoor Panel 10dbi Antennas & 75' 5D Coaxial Cable & SMA male to N female Adapter & a 75 Ohm 3-ways Splitter
8. Kit 104-7550-50
4 Indoor Panel 10dbi Antennas & 75' 5D Coaxial Cable & SMA male to N female Adapter & three 50 Ohm 2-ways Splitters
9. Kit 100-10050
Indoor Panel 10dbi Antenna & 100' 5D Coaxial Cable & SMA male to N female Adapter
10. Kit 100-30400
Indoor Panel 10dbi Antenna & 100' 400 Coaxial Cable & SMA male to N female Adapter
11. Kit 100-50400
Indoor Panel 10dbi Antenna & 50' 400 Coaxial Cable & SMA male to N female Adapter
12. Kit 100-75400
Indoor Panel 10dbi Antenna & 75' 400 Coaxial Cable & SMA male to N female Adapter
13. Kit 3-0350
Indoor Omni 3dbi Antenna & 3' 5D Coaxial Cable & SMA male to N female Adapter
14. Kit 3-1550
Indoor Omni 3dbi Antenna & 15' 5D Coaxial Cable & SMA male to N female Adapter
15. Kit 3-30400
Indoor Omni 3dbi Antenna & 30' 400 Coaxial Cable & SMA male to N female Adapter

16. Kit 3-5050
Indoor Omni 3dbi Antenna & 50' 5D Coaxial Cable & SMA male to N female Adapter
17. Kit 3-7550
Indoor Omni 3dbi Antenna & 75' 5D Coaxial Cable & SMA male to N female Adapter
18. Kit 3-10050
Indoor Omni 3dbi Antenna & 100' 5D Coaxial Cable & SMA male to N female Adapter
19. Kit 3-30400
Indoor Omni 3dbi Antenna & 30' 400 Coaxial Cable & SMA male to N female Adapter
20. Kit 3-50400
Indoor Omni 3dbi Antenna & 50' 400 Coaxial Cable & SMA male to N female Adapter
21. Kit 3-75400
Indoor Omni 3dbi Antenna & 75' 400 Coaxial Cable & SMA male to N female Adapter
22. Kit 3-100400
Indoor Omni 3dbi Antenna & 100' 400 Coaxial Cable & SMA male to N female Adapter
23. Kit 32-50400-50
2 Indoor Omni 3dbi Antennas & 50' 400 Coaxial Cable & SMA male to N female Adapter & a 50 Ohm 2-ways Splitter
24. Kit 33-50400-75
3 Indoor Omni 3dbi Antennas & 50' 400 Coaxial Cable & SMA male to N female Adapter & a 75 Ohm 3-ways Splitter
25. Kit 34-50400-50
4 Indoor Omni 3dbi Antennas & 50' 400 Coaxial Cable & SMA male to N female Adapter & three 50 Ohm 2-ways Splitters

7 TROUBLESHOOTING

The LED alarm lights represent the status of the booster on each frequency. When the lights are green the device is operating normally meaning that it is not experiencing any oscillation (feedback) and it is boosting the signal at maximum power. When the LED lights begin to change color from green to orange to red, it means that particular frequency is experiencing some oscillation (feedback).

If the oscillation is excessive the booster will shut down for that particular frequency. The booster will still work for the other frequency on a multi-band booster.

Oscillation is caused when the indoor (distribution) antenna sends a signal back into the outdoor (signal) antenna. Similar to a PA system, when the microphone gets too close to the speaker it causes feedback. This will occur if your antennas are too close together, or the indoor antenna is pointed at the outdoor antenna. Make sure you have adequate separation and some type of shielding between the antennas (Usually your roof or a cement wall is good enough).

IMPORTANT NOTES

The 2 most important things to look for when setting up your system is:

1

A good input signal (the best you can find)

2

Isolating the outdoor (donor) antenna from the indoor (server) antennas so they do not feedback into each other.

By capturing the best input signal you will be able to enjoy the maximum coverage and best quality signal inside where your Indoor antennas are located. The better the input signal, the better the output signal. In order to find the best input signal, you want to place your outdoor antenna as high as possible with the least amount of obstruction between the antenna and the cellular base tower. A clear line of site is ideal.

Isolating the signal from the antennas is done by ensuring that the

antennas are not pointing to each other and by having enough distance or barrier shielding in between them. The signals travel like rays of sunlight, a directional antenna will send the signal in the direction that it is pointing. An omni directional antenna will send the signal in every direction around it. So depending on your equipment it's important to be sure that your Indoor antenna is not sending the signal back into the outdoor antenna.

THINGS TO CHECK WHEN EXPERIENCING WEAK CELLULAR SIGNAL

1. Ensure the outdoor antenna is pointing in the correct direction and is capturing adequate signal for the booster.
2. Check all connections on the cable, antennas, and booster.
3. Check cable for bends and or cuts.
4. All LED lights on the booster should be green.
5. Outdoor antenna and the indoor antennas have adequate separation and are not causing feedback.

8 FREQUENTLY ASKED QUESTIONS



WHY ARE THE LED LIGHTS TURNING ORANGE, RED OR SHUTTING OFF?

There are certain cases where your system could be experiencing

oscillation. This can be attributed to either the quality of your input signal or having your outdoor antenna and indoor antenna too close together. Please review the following guidelines to help resolve this issue:

1. Adjust the direction of the outdoor antenna. If the system is receiving a very high input signal, you can point your outdoor antenna away from the cellular tower to reduce the strength of the input signal and therefore, reduce the oscillation. Alternatively if your system is receiving a very poor quality signal (weak and unusable signal), you can point your outdoor antenna more directly towards the cellular tower to increase the strength of the input signal. Sometimes this may require completely repositioning the antenna to a location where you can achieve a line of site to the tower.
2. Increase the separation between the outdoor antenna and the indoor antenna. This can be achieved by increasing the distance between the two antennas or by placing barriers between them, such as moving the indoor antenna to an adjacent room where there would be an additional wall separating them from the outdoor antenna.
3. Manual Gain Control. Adjust the gain with the manual gain control function using the dip switches on the side of the booster.

9 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 co-located or operating in conjunction with any other antenna or transmitter.

10 Warning

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 networks. If you are unsure, contact your provider.

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 any person.

You **MUST** cease operating this device immediately if requested by the FCC 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.

Warning: The Inside Antennas for vehicle installations must have 1.5 feet of separation distance from all active user devices.

Warning: The Inside Antennas for fixed installations must have 6 feet of separation distance from all active users.

Warning: The Outdoor Antennas for fixed installations must be installed no higher than 10 meters above ground.

11 Specification

C27G-CPAL-AB-C

Electrical specification		Uplink	Downlink
Frequency Range	LTE (A+B)	704 ~ 716MHz	734 ~ 746MHz
	LTE C	776 ~ 787MHz	746 ~ 757MHz
	CDMA	824 ~ 849MHz	869 ~ 894MHz
	PCS	1850 ~ 1910MHz	1930 ~ 1990MHz
	AWS	1710 ~ 1755MHz	2110 ~ 2155MHz
Band width	LTE (A+B)	12MHz	
	LTE C	11MHz	
	CDMA	25MHz	
	PCS	60MHz	
	AWS	45MHz	
Max .Gain	LTE (A+B)	≤50dB	≤50dB
	LTE C	≤50dB	≤50dB
	CDMA	≤50dB	≤50dB
	PCS	≤50dB	≤50dB
	AWS	≤50dB	≤50dB
Max .Output Power	LTE (A+B)	≤25dBm	≤7dBm
	LTE C	≤23dBm	≤3dBm
	CDMA	≤23dBm	≤5dBm
	PCS	≤23dBm	≤5dBm

	AWS	$\leq 23\text{dBm}$	$\leq 0\text{dBm}$
Automatic Level Control		$\geq 15\text{dB}$, auto shut off after 15dB	
Inter-modulation	9KHz~12.75GHz	$\leq -19\text{dBm}$	$\leq -19\text{dBm}$
Spurious Emission	9KHz~12.75GHz	$\leq -13\text{dBm}$	$\leq -13\text{dBm}$
LED Alarm		Standard	
Power LED		Power Indicator	
ALC LED		Orange @ ALC1~5dB, Red @ ALC15dB	
		LED off after 5 seconds red color.	
Mechanical Specifications		Standard	
I/O Port		SMA-Female	
Impedance		50 ohm	
Operating Temperature		$10^{\circ}\text{C}\sim+55^{\circ}\text{C}$	
Environment Conditions		IP40	
Dimensions		120*200*30	
Weight		$\leq 2.5\text{Kg}$	
Power Supply		Input AC90~264V,outputDC12V / 3A	