

# CEL-FI GO

## INSTALLATION GUIDE

### PLEASE READ THIS FIRST

Thank you for purchasing the Cel-Fi GO X. It is the most powerful signal booster in its class, but following the instructions for set up are very important. This installation guide contains everything we've learned from helping hundreds of people just like you boost their signal.

Give this a read before you start, as it will save you time in the long run.

Should you encounter any problems with your Cel-Fi GO X installation, or would like someone to walk you through it, don't hesitate to call us at 1-800-470-6777.



5010 Wright Road, Suite 110  
Stafford, TX, 77477



1-800-470-6777



[www.signalboosters.com](http://www.signalboosters.com)  
[sales@signalboosters.com](mailto:sales@signalboosters.com)



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# WHAT'S IN THE BOX

	CEL-FI GO X + 1 DOME ANTENNA	CEL-FI GO X + 2 DOME ANTENNAS	CEL-FI GO X + 1 PANEL ANTENNA	CEL-FI GO X + 2 PANEL ANTENNAS
 Cel-Fi GO X Kit	1	1	1	1
 Outdoor Antenna	1	1	1	1
 Outdoor Antenna	1	1	1	1
 Indoor Dome Antenna	1	2	X	X
 Indoor Panel Antenna	X	X	1	2
 30Ft Cable	2	3	2	3
 2Ft Jumper Cable	1	2	1	2
 Surge Protector	1	1	1	1
 Connectors (SMA-M to N-F)	2	2	2	2
 2 Way Splitter	X	1	X	1

# WHAT YOU SHOULD KNOW BEFORE INSTALLATION

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The GO X provides an industry-leading 100 dB of gain for a single carrier. Proper installation ensures you receive the most significant boost to your cell signal possible.

The GO X is composed of three core components: the amplifier, the outside (or donor) antenna, and an inside antenna. There are two main issues people have when installing the Cel-Fi GO X: proper placement of their antennas, and finding usable signal to boost.

We might as well get the biggest problem out of the way now: if you go all over your property and cannot make a call or get reception of any kind, the Cel-Fi GO X will not work for you. The booster requires existing signal to function. Without that, it won't function. Please call us at 1-800-470-6777 for a return.

## ANTENNA LOCATIONS AND SIGNAL QUALITY MATTER MORE THAN ANYTHING.

Review the "Isolation and Necessary Separation" and "Antenna and Amplifier Placement" sections carefully. Getting these two things right is the key to getting great coverage. Use the "Antenna Position Test" in the Wave app for best results.

### COMPATIBILITY

The Cel-Fi GO X works with:

- ✓ AT&T
- ✓ Verizon
- ✓ T-Mobile
- ✓ Sprint
- ✓ US Cellular
- ✓ And all other US carriers and MVNOs

As a reminder, you will need to set which carrier to amplify via the Cel-Fi WAVE app. The carrier can be changed at any time. For more on this, see Page 11.

# 1 ANTENNA TYPES

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There are four major types of antennas used by the Cel-Fi GO X. Your default kit configuration will have at least one variety of these outdoor and inside:

## OUTDOOR:

**Omnidirectional** – Gathers signal in a 360 degree radius. Easy to install, but provides less power than a Yagi antenna. Works best in areas with strong outdoor signal.



**Yagi (Directional)** - Gathers signal from the direction you point. Requires aiming, but provides more power to a system. The Yagi bundled with your GO X has a 45-degree directional beam and up to +11 dBi of gain.



**The Arrow (LDPA)** - A versatile high-gain antenna, The Arrow has a 30-degree beam and effective range of over 10 miles. Great for rural and suburban areas which need that extra bit of power.



**The Long Ranger (Ultra-High Gain)** - Our most powerful outdoor antenna option. With a 10-degree directional beam, this provides up to a staggering +28 dBi of gain. For the most rural, weak signal areas.



# 1 ANTENNA TYPES

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## INDOOR:

**Dome** – Projects boosted signal in a 360 degree radius. Provides less power than a panel antenna, but covers more area. Best for wide open spaces and drop-tile ceiling, but can be used anywhere to good effect.



**Low-Profile Dome** – A high-gain, inconspicuous dome antenna with similar functionality.



**Panel** – Projects boosted signal in a 45 degree radius. Provides more power than a dome antenna, but can be trickier to implement effectively. Best for hallways and places where projecting signal.



# 2 ISOLATION AND NECESSARY SEPARATION

## ISOLATION IS A MEASURE OF SEPARATION BETWEEN THE INDOOR AND OUTDOOR ANTENNAS.

The Cel-Fi GO X automatically throttles its gain (amplification) up or down to avoid “oscillation.” Oscillation is a type of feedback that occurs if the gain of the system is higher than the isolation.

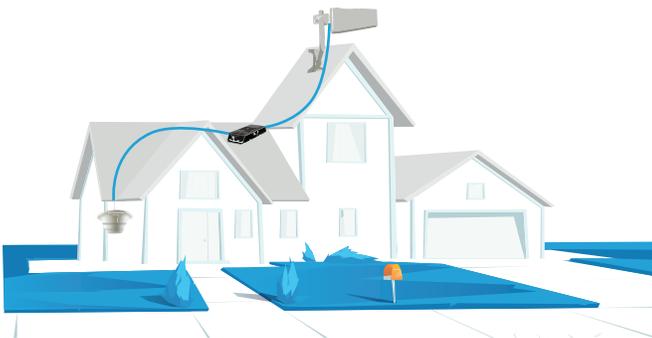
The more isolation between the outside and indoor antenna you have, the more the GO X will be able to amplify your signal, and the better your signal will be inside the building. As a general rule, you should strive to have either **50 feet of horizontal distance or 20 feet of vertical distance** between the outdoor and inside antennas.

## EXAMPLE OF POOR ISOLATION BLOCK



- ✗ Not enough vertical separation between outdoor and indoor antenna.
- ✗ Not enough horizontal separation between outdoor and indoor antenna.
- ✗ Not enough building materials between indoor and outdoor antenna.

## EXAMPLE OF GOOD ISOLATION BLOCK



- ✓ Good vertical separation.
- ✓ Outdoor antenna pointing away from indoor antenna.
- ✓ Multiple layers of building materials between antennas.

Antenna placement is one of the major considerations for avoiding isolation issues during installation.

# 3 ANTENNA AND AMPLIFIER PLACEMENT

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## OUTDOOR ANTENNA PLACEMENT

Finding the best location possible for the Outdoor Antenna is critical. There are two things you need to consider:

- 1 Isolation from the Indoor Antenna(s)
- 2 Signal quality

If you end up with a situation where you have to prioritize avoiding oscillation over somewhat higher quality signal, prioritize avoiding oscillation. However, remember – if you’ve only got good quality signal in one area, that’s where the outdoor antenna should be placed, no matter what.

## HOW TO MEASURE SIGNAL QUALITY

For some buildings, the location with the best signal may be on top of the roof. In others, the best location is the side of the building. The best way to find out is to test.

There are three ways you can measure signal quality:

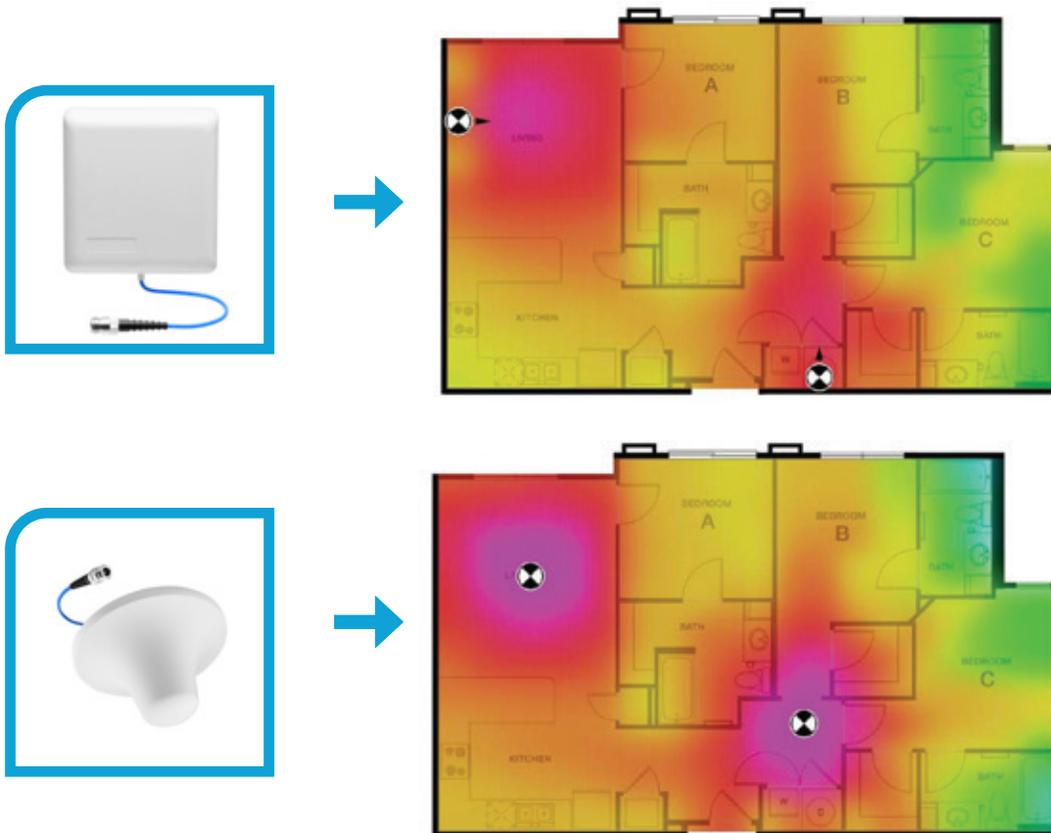
- 1 Look at the number of bars (easiest, but least reliable method)
- 2 Download the OpenSignal app for iPhone or the Network Cell Info Lite app for Android (best method)
- 3 Measure SINR (signal-to-noise ratio) with the Cel-Fi WAVE app

To find the best Outdoor Antenna location: walk around the perimeter of your building with your phone, and if you can, get up on the roof. You’re looking for a location with good SINR (ideally above 5 dB) and good isolation from the indoor antenna locations.

# 3 ANTENNA AND AMPLIFIER PLACEMENT

## INDOOR ANTENNA PLACEMENT

The signal from your booster is strongest where it is broadcast. For best results, place the indoor antenna(s) near where you're most likely to use your cellular devices.



## FINE TUNING YOUR ANTENNAS

The Antenna Position Test feature of the Cel-Fi WAVE app can help you test and compare multiple Outdoor Antenna locations, and will help you aim the antenna at the source of the best signal.

## AMPLIFIER PLACEMENT

Your Cel-Fi GO X should be placed in a cool, dry area with access to a power source. For best results, use an uninterruptible power supply and surge protector to allow for its continued function during blackouts.

# 4 BOOSTER ASSEMBLY

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## GETTING THE PARTS SET UP

### REFER TO THE DIAGRAM ON THE NEXT PAGE AS NEEDED

1. Connect the two SMA Pigtail cable adapters to the Cel-Fi GO X amplifier.

2. Note the two icons by the Cel-Fi unit's two SMA connectors:

This port should be plugged into the inside antenna(s). This port should be connected to the outdoor antenna.

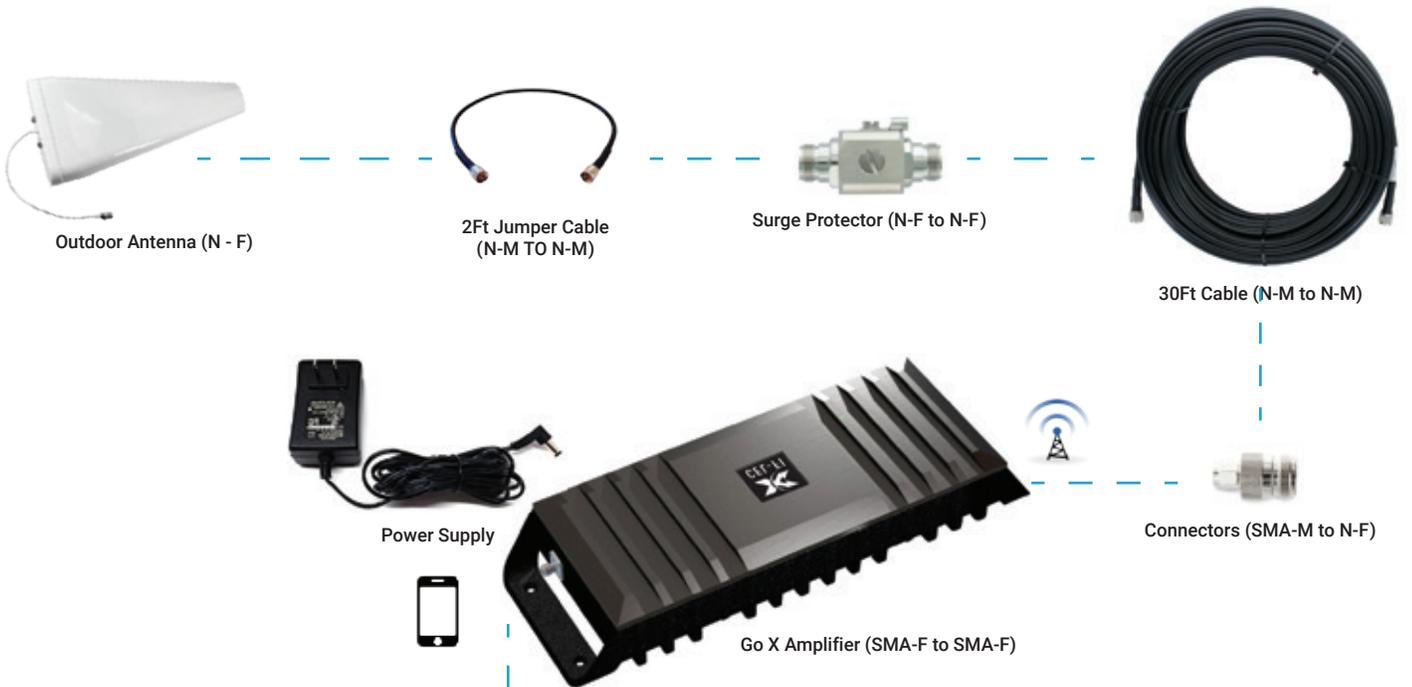
3. Connect the RS400 cables to the SMA pigtail adapters and hand-tighten them.

4. Connect the splitters (if any), and Indoor Antenna(s) (panel or dome) to the indoor end of the Cel-Fi GO X and hand-tighten the connector(s).

5. Connect the Outdoor Antenna to the 5 ft RS200 cable, Lightning Surge Protector, and RS400 cable. The Surge Protector should be installed outdoors, just before the cable enters the building, and should be connected to the building ground using the included grounding cable. Make sure you connect the outdoor "donor" antenna feed to the side of the amplifier that has a small icon of a cell tower).

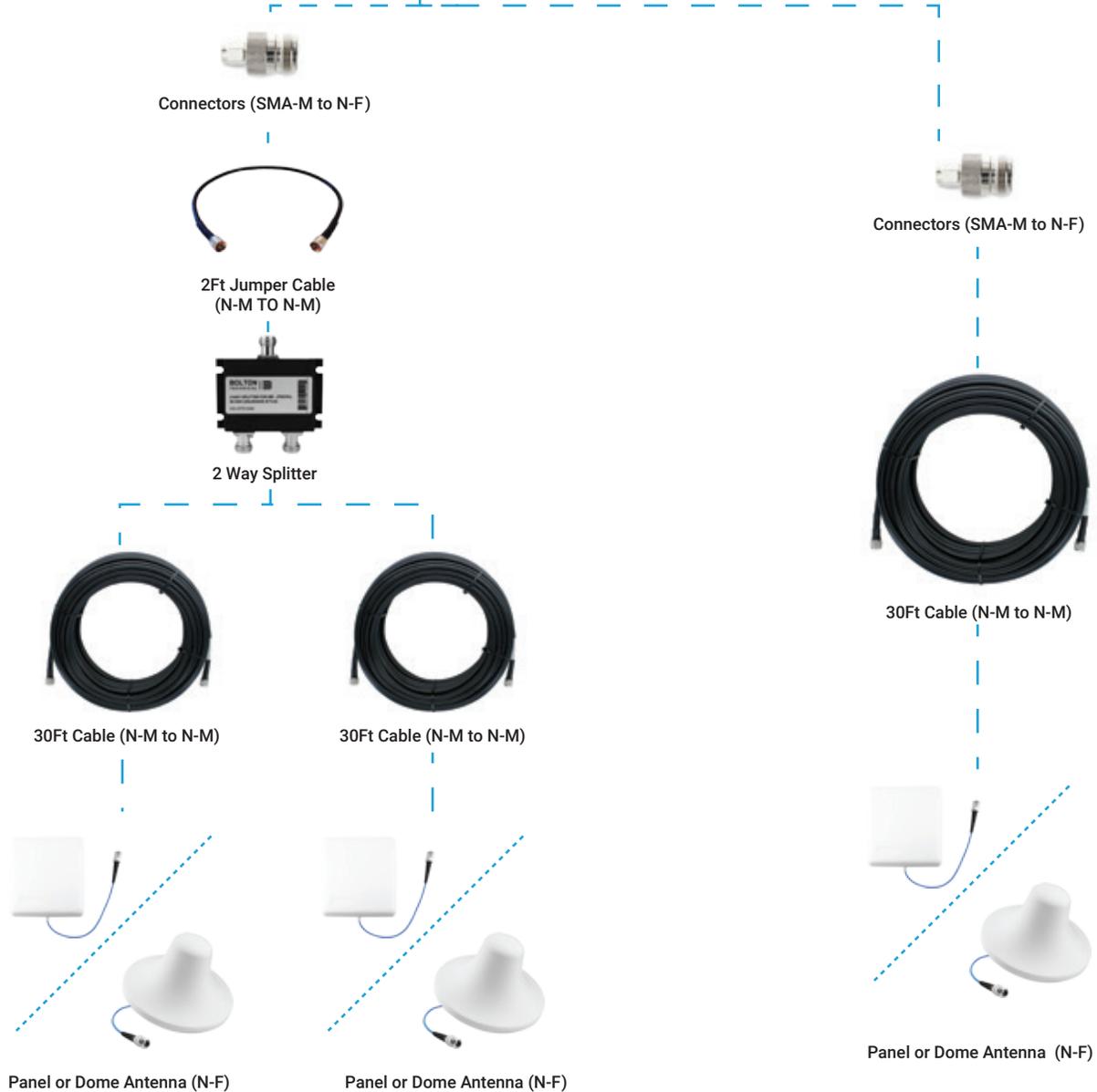
6. Connect the Cel-Fi GO X power supply and plug into the booster.

**Disclaimer:** We highly recommend using a ground wire and spike when installing a signal booster.



**DUAL ANTENNA KIT**

**SINGLE ANTENNA KIT**



# 5 SYNCH THE CEL-FI GO X TO YOUR CARRIER WITH THE CEL-FI WAVE APP

The Cel-Fi WAVE App allows for carrier setup and switching, remote monitoring, real-time status updates, and more. In order to get the most out of your Cel-Fi GO X (and get the boost for your carrier of choice), you'll need to follow these steps.

- Download the “Cel-Fi Wave” app to your phone or tablet from [cel-fi.com/software](http://cel-fi.com/software) or directly from the iOS App Store or Google Play.
- Ideally you'll need Internet connectivity when setting up the GO X, though it will also work offline.
- Open the app while keeping your phone within 4 feet of the GO X to start pairing. This may take a few minutes, the app will say “searching,” “syncing data,” and finally “gathering data.”
- Register your device when prompted to do so. **This is required by law.**
- Check that your carrier is shown in the bottom left of the “Dashboard” screen.

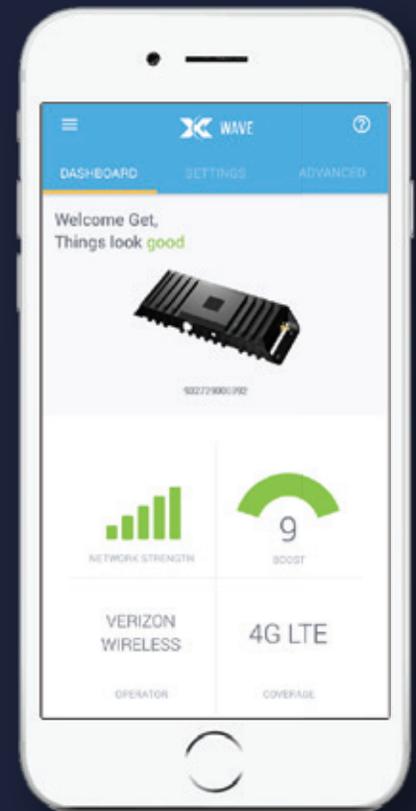
(Note: the carrier that the amplifier is currently boosting will not be listed in the “Carrier” dropdown. For example if your GO X is boosting Verizon it will list AT&T and T-Mobile as options).

Update the software for the GO X if necessary (this may take 10 to 20 minutes and requires a data connection).

## CHANGING CARRIER BEING BOOSTED

To change the carrier, go to “Settings” and then “Carrier” to change it. Changing carriers takes a few minutes, so don't turn off your booster or move your phone away during the process. This is necessary for your booster to function properly.

(Note: the carrier that the amplifier is currently boosting will not be listed in the “Carrier” dropdown. For example if your GO X is boosting Verizon it will list AT&T and T-Mobile as options).



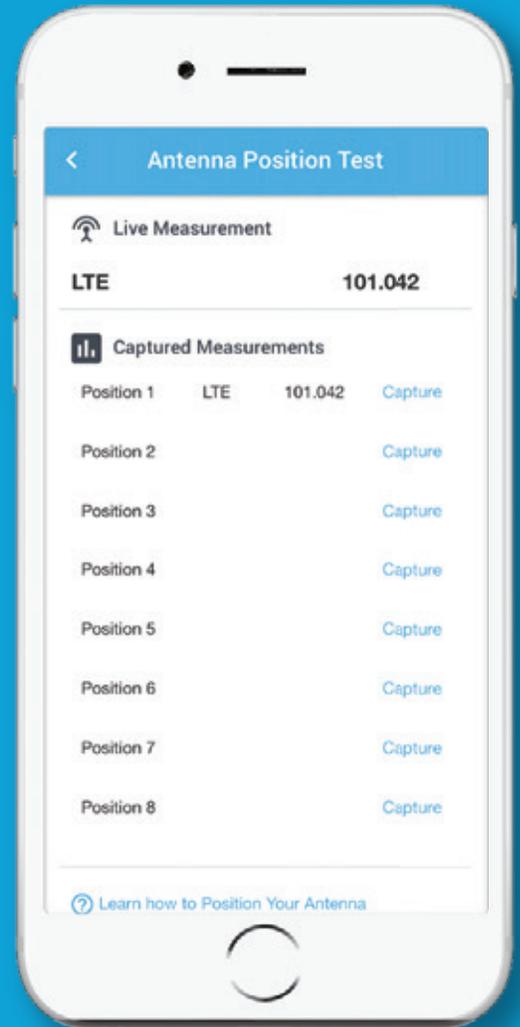
# 6 FEATURES OF THE WAVE APP

## THE ANTENNA POSITION TEST

The Wave app comes with an Antenna Position Test that can help you achieve the ideal balance between isolation and signal quality.

1. Place your indoor antenna(s) approximately where they will be installed.
2. In the Wave app, go to the “Settings” tab, and under the “Antenna Settings” tab select the “Antenna Position Test” option.
3. The app will guide you through taking multiple measurements. Try both different antenna locations and directions. Consider isolation and signal quality when choosing antenna locations.
4. The higher the number, the better your signal will be.
5. Once you’re done, the Wave app will calculate the best location for your outdoor antenna.

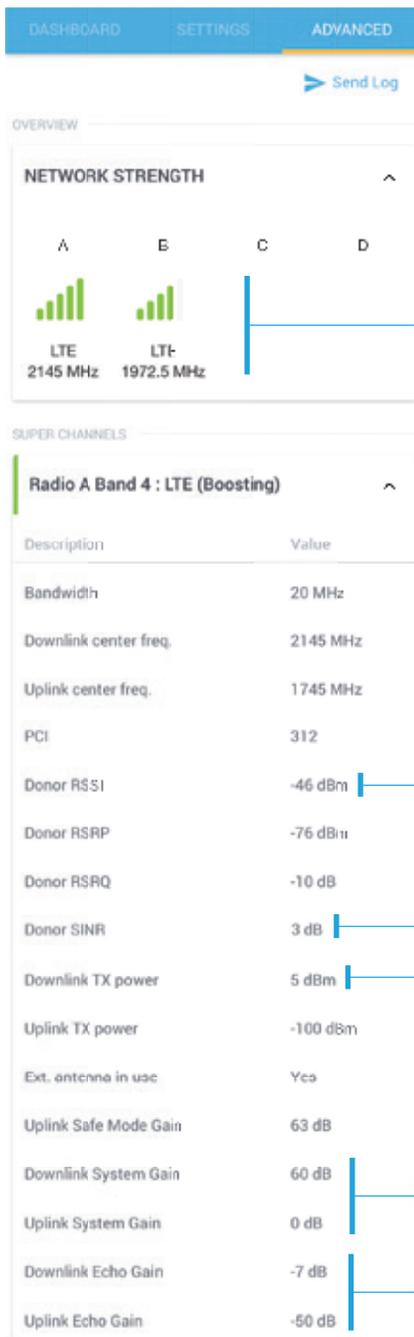
If you’re having issues finding the best antenna location, don’t hesitate to contact our support team. We’ll gladly walk you through finding the best location for best results.



# 6 FEATURES OF THE WAVE APP

## THE ADVANCED TAB

One of the best features of the GO X is that it actively listens and decodes the cellular signals before amplifying. You can find out more about the donor signal and the booster's performance under the "Super Channels" sections of the "Advanced" tab.



The "Send Log" button allows you send a diagnostic log from your device to the Cel-Fi support team.

This area shows the bands currently being amplified. When the device is scanning, the frequencies will change.

The "Super Channels" section lists the two bands being amplified. Select a band to expand the details (as shown).

The "Donor RSSI" value shows the signal strength being received from the outdoor antenna.

The "Donor SINR" is a measure of signal quality. Ideally, you want a number higher than 3 dB here. The higher the SINR, the more bars you'll see. If your SINR is under 0 dB, try moving the Outdoor antenna to different a different location, or changing the direction it is pointing.

The "Downlink TX Power" shows how much signal is being rebroadcast. The higher this number, the greater the coverage area. Ideally you want 0 dBm or higher here.

The Uplink and Downlink System Gain show the current uplink and downlink amplification of the system. Uplink may sometimes show 0 dB when phones aren't in use. That's normal.

The "Echo Gain" numbers show how much isolation you have between the outdoor and indoor antennas. If either number is at or near 10 dB, you need more isolation between the outdoor and indoor antennas.

# 6 FEATURES OF THE WAVE APP

## BOOSTER MODE

Under the “Booster Settings” section of the “Settings” tab of the Wave app, there is an option to change the booster mode from “Stationary” to “Mobile.”

The Mobile setting should only be used if you are using the booster on the go in a vehicle or RV. It reduces the gain of the unit from 100 dB to 65 dB. This mode requires a different antenna setup optimized for vehicles.

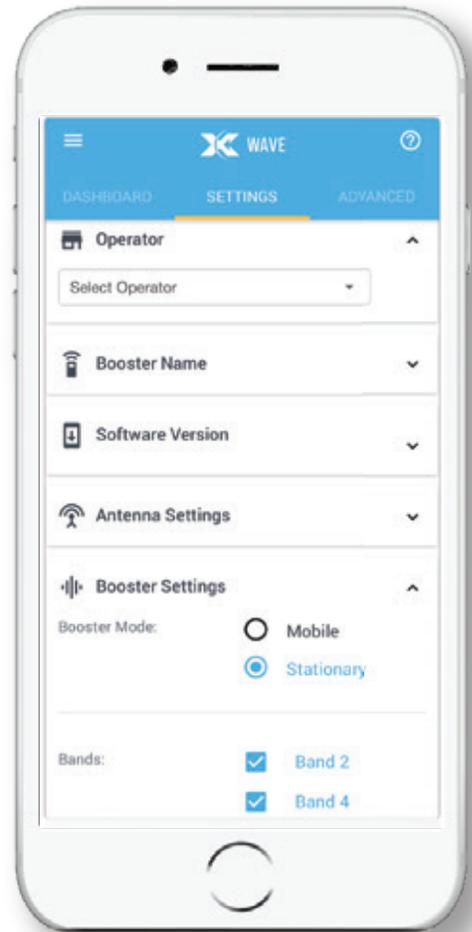
## BANDS

The “Bands” settings under the “Booster Settings” section allows you to control which bands are scanned and amplified by the GO X. In some cases, the carrier networks will try to hand you off to the highest band automatically, even if it isn't the best quality signal. Lower frequency bands also propagate further. In such cases, it can help to lock the Cel-Fi to just the 700 MHz frequency band (12, 13 or 17).

Here are how the band numbers show match up to different frequencies:

Band 12/13/17 = 700 MHz;  
Band 2 = 1900 MHz;  
Band 4 = 2100 MHz;  
Band 5 = 850 MHz.

This is fairly advanced, however, and in general simply switching the amplifier to your carrier should be enough to see a significant improvement in your signal quality.



# 7 TIPS AND FAQs

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## INSTALLATION TIPS

### **If you unplug the cable from the outdoor antenna, make sure to reset the GO X.**

The GO X will start scanning as soon as you unplug the cable to the outdoor antenna. To make sure it scans all the frequencies, restart the unit after you reconnect the cable.

### **If you can, cut and crimp any longer lengths of extra cable.**

If you can't do that, make sure to keep any cable loops as large as possible to minimize negative side-effects (4 ft or wider loops are best). Coiling it tightly.

## FREQUENTLY ASKED QUESTIONS

### **How do I know if I have enough isolation between outdoor and indoor antennas?**

Under the "Advanced" tab of the Wave app, look at the "Downlink TX Power" and "Downlink Echo Gain" under each Super Channel. If the Downlink TX Power is less than 5 dBm and the Downlink Echo Gain is between 5 to 10 dB, you need more isolation between your indoor and outdoor antennas for best performance.

### **What can I do to improve the number of bars my phone is showing or increase my upload and download speeds?**

The most important thing you can do improve performance is to improve the signal quality at your outside antenna. Look at the "Donor SINR" measurement for each Super Channel under the "Advanced" tab of the Wave app. Your Donor SINR should be at least 0 dB. If you can get to 3 dB or higher, that's great – the higher the better (the maximum is 30 dB).

To improve SINR, try moving the outdoor antenna to new locations, and pointing it in different directions. You can also upgrade your outdoor antenna to a Cel-Fi LPDA Antenna (available at [SignalBoosters.com](http://SignalBoosters.com)).

# CEL-FI GO X

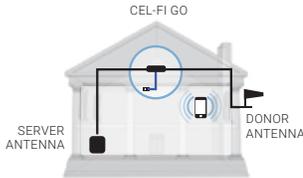
## Cellular / LTE

Smart Signal Booster™



DATA SHEET

MODEL NUMBERS:  
G32-2/4/5/12/13X  
G32-1/3/5/7/8/20X



Cel-Fi GO X uses Nextivity's award-winning, network-safe Cel-Fi Smart Signal Booster technology to dramatically improve voice and data coverage in up to two (2) bands for 3G, 4G, and LTE. It is designed to improve indoor and outdoor cellular coverage when one bar is available outdoors, by allowing an antenna to be used to improve indoor cellular performance. Cel-Fi GO X is cost efficient and easy-to-deploy by an installer, and can be easily optimized and monitored by the Cel-Fi WAVE platform.

### Benefits:

- **Superior Performance: 100dB Max Gain**
- **NEMA 4 Rated**
- **Multi-carrier Support with Carrier Switching app**
- **Carrier Approved for 3G/4G/LTE for Voice and Data**
- **Unconditionally Network Safe**
- **SMA Antenna Connectors**
- **Cel-Fi WAVE Management Platform**



**Cel-Fi WAVE** is a smartphone app that will help you get the best performance from your Cel-Fi GO X.



### Wireless Features

3G/4G/LTE support (WCDMA / HSPA+ / LTE)  
Supports two (2) bands simultaneously from a single operator  
FDD  
Up to 100dB system gain, per band  
Peaceful coexistence with adjacent Wi-Fi (2.4 GHz & 5 GHz), femtocells, and cellular devices  
Advanced digital echo-cancellation (>30dB) and channel select filtering algorithms  
Automatic Gain Control (AGC) based on fast real-time echo-cancellation  
Linear RF front end  
Adaptive signal equalization  
Uses Nextivity's 3rd-generation "ARES" chipset

### System Features

SMA connectors for Donor and Server antennas  
NEMA 4 rated enclosure and connectors  
Support for BIAS-TEE power through Server port  
Glanceable LED User Interface (UI)  
Supporting smart phone application (Cel-Fi WAVE)  
Convection cooled cast aluminum chassis  
Easy mounting capability  
Mounting screws and anchors included

### Mobile Network and Network Protection Features

Global band combinations available  
Systems are pre-configured for a single carrier (network operator)  
Supports multiple channels with bandwidths of 5/10/15/20 MHz per channel  
Works with any user equipment (UE) on the configured network (no whitelist/blacklist)  
Up to 40 MHz system relay bandwidth  
Support for 3GPP Release 10 features  
Provider-specific system: Cel-Fi distributes and boosts service only for the Operator PLMNIDs for which the device is authorized and configured  
Secure and ciphered provisioning  
System intelligence accurately establishes proper safe uplink power in real time  
Uplink Muting Mode automatically shuts down uplink cellular transmissions when no active user equipment is detected  
System shuts down upon Operator's network command or failure detection

### Wireless Benefits

Clear and reliable cellular connections within coverage area up to 15,000 ft<sup>2</sup> (1,400 m<sup>2</sup>) per system  
Highest gain (100dB) provides best coverage footprint  
Advanced Echo-Cancellation allows Cel-Fi to transmit more power without feedback interference  
Subscriber devices (UE) require less transmit power for improved battery life  
Linearity eliminates IMD desense issues  
Dynamic gain control ensures maximum gain – best coverage – at all times in ever changing RF environments, without user intervention  
Nextivity purpose-built, high-performance, six core ASIC processor, provides best performance at lowest cost

<b>System Benefits</b>	Distribute and boost cellular coverage 3G and 4G support, Voice and Data, network safe LED cues provide visual feedback for ease of setup and status Works with any subscriber device from the configured Operator																																																						
<b>Mobile Network Benefits</b>	Flexibly deploy on LTE, VoLTE, LTE-Advanced, and WCDMA networks, with multiple cellular bands, simultaneously Automatically adjusts channel bandwidths between 5 MHz and 20 MHz UE control is transparent and remains centralized in the network core (no gateways or third-party software)																																																						
<b>Compliance</b> <i>(check individual product version for specific regional compliance)</i>	3GPP TS 25.143 Rel.10 3GPP TS 36.143 Rel.10 FCC Part 15, 20, 22, 24, 27 ISED (Industre Canada) Bluetooth BQB CE																																																						
<b>System Management</b> <i>(Software)</i>	Supported by Cel-Fi WAVE cloud portal Cel-Fi WAVE Portal capability: Status (List and Map) Settings Commissioning Reporting Diagnostics Alarms & Notifications Software Updates																																																						
<b>Antenna Ports</b> <i>(Donor and Server)</i>	<b>Model:</b> G32-1/3/5/7/8/20: 791–2690 MHz <b>Model:</b> G32-2/4/5/12/13: 699–2180 MHz Impedance: 50 Ohm Return Loss: 8 dB Output Protection																																																						
<b>Environmental</b>	Operating temperature: 0° to 65° C Convection Cooling Relative humidity: 0% to 95%, noncondensing RoHS 2 (European and China compliant) WEEE NEMA 4 Surface Temp at any point (30° ambient): 53° C																																																						
<b>Dimensions</b>	<table border="1"> <thead> <tr> <th>Height</th> <th>Width</th> <th>Length</th> <th>Weight</th> </tr> </thead> <tbody> <tr> <td>43.5 mm</td> <td>96.5 mm</td> <td>272.5 mm</td> <td>850 g</td> </tr> </tbody> </table>	Height	Width	Length	Weight	43.5 mm	96.5 mm	272.5 mm	850 g																																														
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<b>Power</b>	9.6 – 16.5V 2A current draw 16W nominal power consumption																																																						
<b>Installation</b>	Mounting hardware included 																																																						
<b>DC Power Plug and Jack</b>	NEMA 4 rated power plugs and jack																																																						
<b>Radio Performance</b>	The Cel-Fi GO system can boost up to two (2) bands concurrently. Either profile can be selected: A) One (1) High band boost and one (1) low band boost or B) Two (2) high bands boost																																																						
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13	746-756 MHz	777-787 MHz	Up to 10 MHz contiguous boost, LTE																																																				
20	791-821 MHz	832-862 MHz	Up to 20 MHz contiguous boost, LTE																																																				
	Maximum DL in-band donor level -40dBm Maximum UL power 22dBm bands 1, 2, 3, 4, 7, 8 Maximum UL power 20dBm bands 5, 12, 13, 20 Maximum DL power 10dBm per 5 MHz bands 1, 2, 3, 4, 7, 8 Maximum DL power 10dBm per 5 MHz bands 5, 12, 13, 20 LTE 5/10/15/20 MHz and WCDMA 5 MHz bandwidths																																																						



## NEED HELP? WE'RE READY AND WAITING.

Signal boosters aren't always easy to install. In fact, getting everything up and running can sometimes be a pain. But the end result is worth it.

SignalBoosters provides lifetime technical support on every system we sell. We've installed hundreds of these devices ourselves, and can walk you through troubleshooting and fine-tuning your installation for best results.

Simply give us a call, start a live chat on our website, or send us an email. We love helping solve tricky install problems.



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