



**Cel-Fi GO X** is optimized for stationary applications such as buildings, factories, warehouses, and similar. It features 100dB of system gain and provides the largest cellular coverage footprint in its category.



For more information, visit: www.cel-fi.com

## **Basic Functionality**

The **Cel-Fi GO X** connects to an external Donor Antenna to draw in a cellular signal from the macro network. The **Cel-Fi GO X** Smart Signal Booster finds the appropriate cellular signal, per the product's configuration, improves the signal, and amplifies it. Improved service is provided to the user via the Server Antenna.

NOTE: A Mobile version ("GO M") of the product is available. Go to cel-fi.com for details.

### Cel-Fi WAVE Mobile App

The **Cel-Fi WAVE** app provides a User Interface to Cel-Fi systems. The app's dashboard shows the system "Boost" value. A numeric representation mapped to the amount of Signal Gain the system is providing. Higher is better, with nine (9) being the highest value.

### Cel-Fi WAVE and Cel-Fi GO X

Your **Cel-Fi GO X** will automatically select the strongest cellular signal to boost. However, you may manually configure the system preferences using **Cel-Fi WAVE**. Connect to **Cel-Fi GO X** with a bluetooth enabled mobile device, and manage the boost settings.

#### **NEMA 4 Rating**

The  $\mbox{Cel-Fi}$  GO X is NEMA 4 rated, and can be used both indoors and outdoors.

The NEMA 4 rating provides the following advantages:

- A degree of protection against ingress of solid foreign objects (falling dirt and windblown dust)
- A degree of protection from the ingress of water (rain, sleet, snow, splashing water, and hose directed water)
- Equipment will be undamaged by the external formation of ice on the enclosure

## **User Interface**

Cel-Fi GO X features an LED on the top face to indicate the unit's state:

LED	MEANING
Solid Green	The unit is working properly and boosting properly.
Blinking Green	Unit is scanning for networks to boost.
Blinking RED	The unit is in an error condition. Use the <b>Cel-Fi WAVE</b> app to check the error code meaning and remedy.
Solid RED	The unit has a hardware error and is not booting up normally.

NOTE: In mobile usage, it is normal for the **Cel-Fi GO M** to fluctuate between scanning and boosting. The **Cel-Fi GO M** automatically adjusts its boost behavior based on available signal.

## Specifications:

# Frequency Support Multiple variations of the product are available with different frequency support.

	BAND	NAME	DOW	NLINK	UPL	NK	
Model:	2	1900 PCS	1930	1990	1850	1910	
G32-2/4/5/12/13X	4	AWS-1	2110	2155	1710	1755	
	5	850	869	894	824	849	
	12	700 a	729	746	699	716	
	13	700 c	746	756	777	787	
Model:	BAND NAME		DOWI		UPLINK		
G22-1/2/5/7/8/20X	2	2100	2110	2170	1920	1705	
G32-1/3/3/7/0/20A	5	1800+	060	1880	024	040	
	7	2600	2620	2600	2500	049	
	0	2000	2020	2090	2000	015	
	20	900	701	900 821	832	862	
		000 DD	/91	021	032	002	
Dimensione	LENGTH W		DTH	HEIGHT	GHT WEIGHT		
Dimensions	272.5 mm 96.		5 mm 43.5 mm		n 8	850 g	
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Jail		JUD SYSLE	siiiyalli				
Power (max)	10dBm/5		Rm nor b	and) 2	UPLINK AdPm.por	hand	
			DITI per D		∠4abm per band		
Bluetooth (I F Ver 4 2)		FREQUEN	CY		POWE	R	
	20	<u> 142 - 248(</u>	J MHZ		UdBm	1	
	Bluetooth: LE Ver 4.2						
	Bluetooth	n freauen	cv: 2047	2 - 2480 M	√hz		
Environmentel	Operating	Tomp: (	0): 20 12 N 6E0				
Environmental	Operating	j remp. c	1-050				
	Relative H	Humidity:	95%				
Antenna Connectors	SMA-Fen	nale					
Certifications	3CDD TO	25 1/3 5	ol 10				
(All variants)		20.140	.110				
(r in variants)	3GPP IS	36.143 F	kel. I U				
	RoHS 2						
	BOB (Blue	etooth)					
(000 0/4/5/10/10							
(G32-2/4/5/12/13	FCC						
variants only)	ISED						
	UL 62368	3-1:2014					
	CSA C22 2#62260-1						
	UL 50E, UL 60950-22						
	CSA C22	.2#60950	)-22				
(G32-1/3/5/7/8/20	IEC 6236	8-1:2014					
variants only)	EN 201 400-1 v2 1 1						
	EIN JULI 409-1 VZ. 1. 1						
	EN 301 4	89-1 / v3	.1.1				
	EN 301 4	89-50 v2	.2.0				
	EN 301 908-1 v11.1.1						
	EN 201 0	00,111	ຳ ຳ				
	EIN 301 9		۷				
	EN 301 9	08 v11.1.	2				
	EN 300 3	28 v2.1.1					
	FN 6231	1 (2008)					
		(EO) 10		0 (0+	by or d C	)ff	
	Regulatio	n (EC) 12	2/5/200	8 (Stand	by and C	nt mode	
	Regulatic	on (EC) 27	78/2009	(Externa	al Power	Supply)	

# Cel-Fi GO X Installation

## Install Donor Antenna



Find the location with the best signal. Install **Donor Antenna** where the mobile device receives this signal.



SAFETY: **DO NOT INSTALL** any equipment close to power lines or drill into walls or other structural elements without first ensuring the location is safe and that there are no hidden items that could cause injury.

#### TIPS AND TECHNIQUES

- Install antenna at least 12 inches from any other antennas for best performance
- · Antenna should be free of obstructions
- Antenna should be away from windows (including sunroof or other openings)
- Install 8 inches away from any people



#### Install Server Antenna where coverage is needed.

#### TIPS AND TECHNIQUES

- For best results, install Donor and Server Antennas such that there is substantial material between the antennas. This will create isolation and allow the system to perform at higher gain without oscillation or feedback.
- Keep Donor and Service Antennas separated/isolated from each other for best performance
- · Do not use cable splitters for Donor Antennas.
- · Follow the installation instructions for your chosen antennas.





Google play

## Setup System with Cel-Fi WAVE

The system is configured to automatically select the best cellular service to boost. This step can be skipped for any user that wants to keep the automatic settings. However, a user may manually configure the system's boost preferences using the **Cel-Fi WAVE** app. To do this, use the **Cel-Fi WAVE** app on a smartphone with Bluetooth enabled to connect to the **Cel-Fi GO X** system, and manage the boost settings.

# Troubleshooting

ISSUE	MEANING	ACTION
Continual Blinking GREEN	Unit is operational, but not attaching to a network to boost.	<ul> <li>Make sure both antennas are connected properly and are appropriate for the desired frequencies to boost.</li> <li>Make sure the selected operator to relay is available at your location. This can be checked with the <b>Cel-Fi WAVE</b> application. If the service is not available, it cannot be boosted.</li> </ul>
Solid RED LED	Unit is not operational.	<ul> <li>Unplug and reinsert power.</li> <li>If restart has no effect, contact vendor for remedy.</li> </ul>

# Antenna Kitting

The following antennas are authorized to be used with  $\mbox{Cel-Fi}\ \mbox{GO}\ \mbox{X}$  Smart Signal Booster:

MODEL	DESCRIPTION	FREQUENCY
	Wideband Panel Antenna	698-960 // 1710-2700 MHz
	CERTIFICATION	BAND SUPPORT
	FCC, CE	1/3/5/7/8/20/2/4/5/12/13/28
T.	DONOR	SERVER
A32-V32-100	1	$\checkmark$
MODEL	DESCRIPTION	FREQUENCY
	Wideband Directional Antenna	698-960 // 1710-2700 MHz
	CERTIFICATION	BAND SUPPORT
$\searrow$	FCC, CE	1/3/5/7/8/20/2/4/5/12/13/28
Q	DONOR	SERVER
A32-V24-100	$\checkmark$	$\checkmark$
MODEL	DESCRIPTION	FREQUENCY
 	i i i i i i i i i i i i i i i i i i i	
$\square$	Whip Antenna	698-960 // 1/10-2/00 MHz
	Whip Antenna CERTIFICATION	698-960 // 1/10-2/00 MHz BAND SUPPORT
	Whip Antenna CERTIFICATION FCC, CE	698-960 // 1/10-2/00 MHz BAND SUPPORT 1/3/5/7/8/20/2/4/5/12/13/28
	Whip Antenna CERTIFICATION FCC, CE DONOR	698-960 // 1/10-2/00 MHz BAND SUPPORT 1/3/5/7/8/20/2/4/5/12/13/28 SERVER
A21-V33-100	Whip Antenna CERTIFICATION FCC, CE DONOR	698-960 // 1/10-2/00 MHz BAND SUPPORT 1/3/5/7/8/20/2/4/5/12/13/28 SERVER
A21-V33-100 MODEL	Whip Antenna CERTIFICATION FCC, CE DONOR DESCRIPTION	698-960 // 1/10-2/00 MHz BAND SUPPORT 1/3/5/7/8/20/2/4/5/12/13/28 SERVER ✓ FREQUENCY
A21-V33-100 MODEL	Whip Antenna CERTIFICATION FCC, CE DONOR DESCRIPTION Indoor Omni Antenna	698-960 // 1/10-2/00 MHz BAND SUPPORT 1/3/5/7/8/20/2/4/5/12/13/28 SERVER FREQUENCY 698-960 // 1710-2700 MHz
A21-V33-100 MODEL	Whip Antenna CERTIFICATION FCC, CE DONOR DESCRIPTION Indoor Omni Antenna CERTIFICATION	698-960 // 1/10-2/00 MHz BAND SUPPORT 1/3/5/7/8/20/2/4/5/12/13/28 SERVER FREQUENCY 698-960 // 1710-2700 MHz BAND SUPPORT
A21-V33-100 MODEL	Whip Antenna CERTIFICATION FCC, CE DONOR DESCRIPTION Indoor Omni Antenna CERTIFICATION FCC, CE	698-960 // 1/10-2/00 MHz BAND SUPPORT 1/3/5/7/8/20/2/4/5/12/13/28 SERVER FREQUENCY 698-960 // 1710-2700 MHz BAND SUPPORT 1/3/5/7/8/20/2/4/5/12/13/28
A21-V33-100 MODEL	Whip Antenna CERTIFICATION FCC, CE DONOR DESCRIPTION Indoor Omni Antenna CERTIFICATION FCC, CE DONOR	698-960 // 1/10-2/00 MHz BAND SUPPORT 1/3/5/7/8/20/2/4/5/12/13/28 SERVER ✓ FREQUENCY 698-960 // 1710-2700 MHz BAND SUPPORT 1/3/5/7/8/20/2/4/5/12/13/28 SERVER

Additional Cel-Fi Antenna options are available at www.cel-fi.com/antennas

