#### **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.

## 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  $\mbox{Cel-Fi}\ {\bf GO}\ {\bf X}$  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			
	DONOR	SERVER			
A32-V32-100	1	1			
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	$\checkmark$	1			
MODEL	DESCRIPTION	FREQUENCY			
M I	Whip Antenna	698-960 // 1710-2700 MHz			
	CERTIFICATION	BAND SUPPORT			
	FCC, CE	1/3/5/7/8/20/2/4/5/12/13/28			
	DONOR				
A21-V33-100		1			
MODEL	DESCRIPTION	FREQUENCY			
$\bigcirc$	Indoor Omni Antenna	698-960 // 1710-2700 MHz			
$ \neq $	CERTIFICATION	BAND SUPPORT			
	FCC, CE	1/3/5/7/8/20/2/4/5/12/13/28			
$\bigvee$	DONOR	BAND SUPPORT 1/3/5/7/8/20/2/4/5/12/13/28 SERVER			
A11-V43-100		1			

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





**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



## Specifications:

Frequency Support	different					inc av	anabit	e with
	BAND	NAME	·	DOW	NLINK		UPL	INK
Model:	2	1900 PC	CS	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
	BAND	NAME		DOW	NLINK		UPL	INK
Model:	1 2100			2110 217		70 1920		1980
G32-1/3/5/7/8/20X	3	1800+		1805	1880	) / '	1710	
	5	850		869	894		824	1785 849
	7	2600		2620	2690	) (	2500	2570
	8	900		925	960		880	915
		800 DI	ונ	791	821		832	862
Dimensions	LENGT 272.5 n		WII 6 5	mm	HEI0 43.5			eight 50 g
Coin					40.0		0	<u> 50 y</u>
Gain	Up to 10		ster	n gain				ту
Power (max)	10dBm/	5 MHz (1	6dE	Bm per b	and)	24d	Bm pei	r band
Bluetooth (LE Ver 4.2)	2	<u>FREQU</u> 2042 - 2-	<u>1enc</u> 480	MHz			POWE OdBr	<u>R</u> ו
	Bluetooth: LE Ver 4.2							
	Bluetooth frequency: 2042 - 2480 Mhz							
Environmental	Operating Temp: 0 - 65C							
	Relative Humidity: 95%							
Antenna Connectors	SMA-Female							
(All variants)	3GPP TS 25.143 Rel.10							
(All valiants)	3GPP TS 36.143 Rel.10							
	RoHS 2							
	BQB (Bluetooth) NEMA-4							
(G32-2/4/5/12/13	FCC							
variants only)	ISED							
	UL 62368-1:2014							
	CSA C22.2#62368-1							
	UL 50E, UL 60950-22							
	CSA C22.2#60950-22							
(G32-1/3/5/7/8/20 variants only)	IEC 623							
variarits of lly)	EN 301 489-1 v2.1.1							
	EN 301 489-17 v3.1.1							
	EN 301 489-50 v2.2.0							
	EN 301 908-1 v11.1.1 EN 201 008 v11 1 2							
	EN 301 908 v11.1.2 EN 301 908 v11.1.2							
	EN 300 328 v2.1.1 EN 62311 (2008)							
	Regulation (EC) 1275/2008 (Standby and Off mo							
				, 0, 200		i i GLO Y		/ 1 1 1 1 1 0

# Cel-Fi GO X Installation

