

LED Function & Troubleshooting

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

LED	MEANING
Solid Green	The unit is boosting properly. Note: Boost value can be as high as 9. Use the Cel-Fi WAVE app to check boost number. The antennas may be relocated and/or repositioned to improve system performance.
Blinking Green	Normal function, unit is coming online, scanning for networks to boost. If the unit remains in this condition for longer than ~10 minutes, make sure the antennas are appropriate for the application and carrier frequencies, and are connected properly. If the antennas are connected properly, yet the unit remains in the Blinking Green state, it's possible there are no bands for the GO RED to pick-up and boost. Check to make sure the FirstNet Band 12 or Band 14 is available on site.
Blinking RED	The unit is in an ERROR CONDITION, but still able to communicate with the WAVE app. Use the WAVE app to check the error type and help determine a remedy.
Solid RED	The unit is in an ERROR CONDITION but is not able to communicate with the WAVE app. Power cycle the device. If the unit remains in the Solid Red error condition contact the vendor for support.

Antenna Options:

Review the latest authorized antennas at www.cel-fi.com/antennas

Cel-Fi Indoor Omni Donor Antenna A52-V32-100 	Cel-Fi Wideband Panel Antenna A11-V43-100 	Cel-Fi Wideband Directional Antenna A32-V32-100 
Cel-Fi Mobile Mag Mount Antenna A41-V21-100/ 101 	Cel-Fi Mobile Bolt Mount Antenna A41-V36-200/201 	Cel-Fi Whip Antenna A21-V33-100 
Cel-Fi Mobile Server Antenna A41-V30-100 	Cel-Fi LPDA Antenna A62-V44-100 	
Cel-Fi Trucker Antenna A21-V31-100 	Cel-Fi Marine Antenna A11-V37-100 	

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www.cel-fi.com

Specifications:

Model: G32-12/14	BAND		NAME		DOWNLINK		UPLINK	
	12		700a		729 746		699 716	
	14		700 PS		758 768		788 798	
Dimensions	LENGTH		WIDTH		HEIGHT		WEIGHT	
	272.5 mm		96.5 mm		43.5 mm		850 g	
Gain	Up to 100dB system gain							
Power (max)	POWER		UPLINK		DOWNLINK			
	Band 12		24dBm		16dBm			
	Band 14		23dBm		16dBm			
Bluetooth (LE Ver. 4.2)	FREQUENCY				POWER			
	2042 – 2480 MHz				0dBm			
Environmental	Bluetooth: LE Ver. 4.2							
	Bluetooth frequency: 2042 - 2480 MHz							
	Operating Temp: 0 - 65C							
	Relative Humidity: 95%							
	NEMA-4							
Antenna Connectors	SMA-Female							
Standards	3GPP TS 25.143 Rel.10							
	3GPP TS 36.143 Rel.10							
	RoHS 2							
	BQB (Bluetooth)							
	FCC							



Cel-Fi GO RED Quick Start Guide

Smart Signal Booster™



G32-12/14

Cel-Fi GO RED is the evolved smart signal booster that delivers cellular coverage in buildings for FirstNet emergency communications. The **Cel-Fi GO RED** connects to an external donor antenna to draw in the FirstNet cellular signal from the macro network. The smart signal booster improves the signal through digital technology, amplifies it, and relays it to the server antenna, to provide network coverage.



IN THE BOX



BoosterPower Supply

Other variations of the product package may include additional internal and external antennas or components.

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

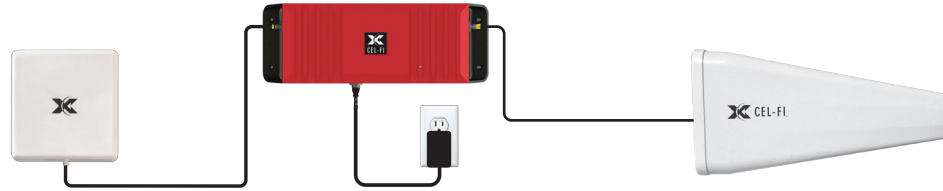


420N007-G32-001-30R8

Cel-Fi GO RED Installation

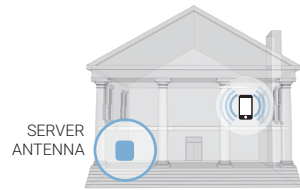
Cel-Fi GO RED has a **Donor Antenna Port** and a **Server Antenna Port**. They are marked on the device with icons (see illustration) It is critical that the **Donor** and **Server** antennas are to the correct port.

[**IMPORTANT:** Best to make sure all cable lengths support the intended mounting location BEFORE permanent mounting.]



This device is designed for installation by **FCC LICENCEES** and **QUALIFIED INSTALLERS**.

1 Install Server Antenna

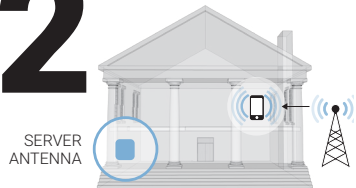


Install **Server Antenna(s)** where coverage is needed.
ANTENNA NOT INCLUDED

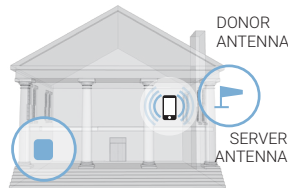
TIPS AND TECHNIQUES

- 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
- Follow the installation instructions for your chosen antennas.

2 Install Donor Antenna



Find the location with the best FirstNet service



Install **Donor Antenna** where the mobile device receives this signal.
DONOR ANTENNA NOT INCLUDED

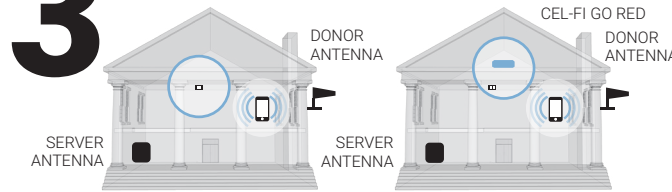


SAFETY: DO NOT INSTALL any equipment close to power lines or drill into walls or other structural elements without first ensuring the location is safe and that there are no hidden items that could cause injury.

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 other openings)
- Install 8 inches away from any people

3 Mount Cel-Fi GO RED Near Power

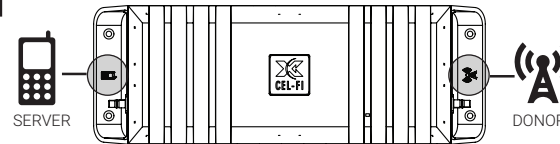


Find a power outlet.

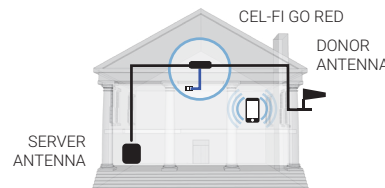
Mount **Cel-Fi GO RED** near the power outlet.

DO NOT plug in at this time.

4 Connect Donor & Server Antennas to the Cel-Fi GO RED Unit



5 Plug in Cel-Fi GO RED



Your **Cel-Fi GO RED** will automatically boost FirstNet service

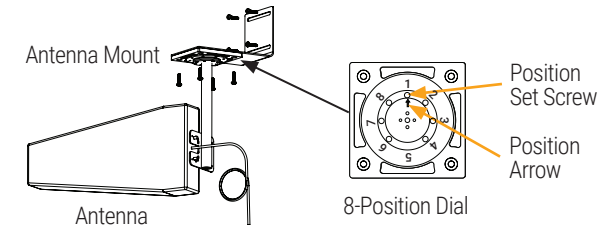
6 Optimize with Cel-Fi WAVE

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** also allows users to setup antenna, modes, and carriers. Cel-Fi WAVE app can be downloaded from either the **Google Play Store** or **Apple App Store**, depending on the mobile device.



The system ships ready to use, 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 RED** system.

Point & Optimize Antenna



Optimize the donor signal by pointing the antenna properly. Use the Cel-Fi 8-position mount with a directional antenna, and the AntennaBoost feature on the WAVE app, to determine the optimum direction to point the antenna.

