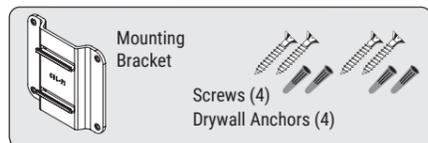## Specifications

Band 1	
Downlink (DL) Frequency(MHz)	2110 - 2170
Uplink (UL) Frequency	1920 - 1980
Per channel signal bandwidth (MHz)	20
Duplex separation (MHz)	190
Technology	HSPA & LTE
Band 3	
Downlink (DL) Frequency (MHz)	1805 - 1880
Uplink (UL) Frequency	1710 - 1785
Per channel signal bandwidth (MHz)	20
Duplex separation (MHz)	95
Technology	HSPA & LTE
Band 7	
Downlink (DL) Frequency (MHz)	2620 - 2690
Uplink (UL) Frequency	2500 - 2570
Per channel signal bandwidth (MHz)	20
Duplex separation (MHz)	120
Technology	LTE
Band 8	
Downlink (DL) Frequency (MHz)	925 - 960
Uplink (UL) Frequency	880 - 915
Per channel signal bandwidth (MHz)	15
Duplex separation (MHz)	45
Technology	HSPA & LTE
Band 20	
Downlink (DL) Frequency (MHz)	791 - 821
Uplink (UL) Frequency	832 - 862
Per channel signal bandwidth (MHz)	20
Duplex separation (MHz)	-41
Technology	LTE

Airlink	
Supported Carriers - LTE	5, 10, 15, 20 MHz
Supported Carriers - HSPA /W-CDMA	3.84 MHz
Power	
Downlink Power - All Bands	20 dBm
Uplink Power - Bands 1, 3, 7	24 dBm
Uplink Power - Bands 8, 20	22 dBm
Environmental	
Operating Temperature	0 - 40 º C
Relative Humidity Non-condensing	0 - 95
RoHS (EU and China)	Yes
CE	Yes
IP Rating	20
Mechanical	
LxWxH (mm)	80 x 158 x 163
Weight	
Cooling	Convection
IP Rating	20
Surface Temp Max	44 º C
Radio Performance	
Noise Figure	7dB
Return Loss	-8dB
Antenna Ports	
Frequency	698MHz – 2700MHz
Impedance	50 Ohms
Connector	SMA Female
Port Isolation	110dB

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420N007-H41-001-10RA

Mounting Instructions

Mounting Bracket
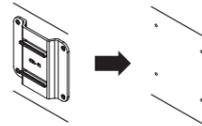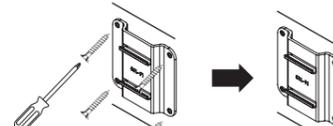
Screws (4)
Drywall Anchors (4)

REQUIRED HARDWARE

NOTE: This package comes equipped with screws and drywall anchors for mounting in standard drywall. Before you install the mounts, make sure there are no wires or other objects, or metal plates, behind the drywall that may interfere with the inserts, screws, mount, or mounted units.
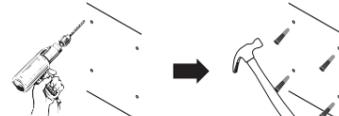
1 Determine Cel-Fi SOLO location. *(Refer to Installation section).* Determine mounting hole locations.

2 In each marked spot, use a 3/16" drill bit to drill guide holes for the anchors. Install anchors *(Drywall).*

3 Install mounting brackets.

4 Attach the Cel-Fi SOLO to the wall mounted bracket.

Additional Antenna Options

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

Cel-Fi Indoor Omni Donor Antenna
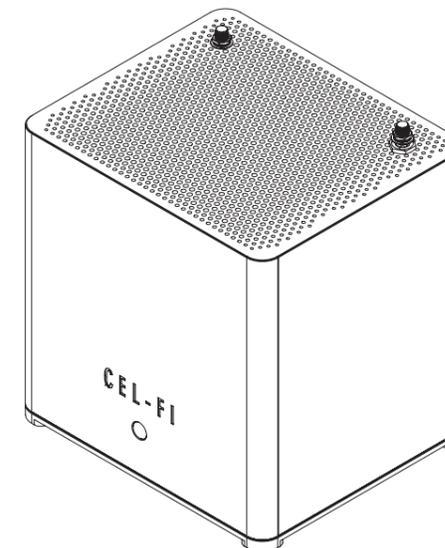A52-V32-100

Cel-Fi Wideband Panel Antenna
A11-V43-100

Cel-Fi LPDA Antenna
A32-V32-100

Cel-Fi Wideband Directional Antenna
A62-V44-100

Cel-Fi™ SOLO
Quick Start Guide

CEL-FI
by NEXTIVITY

Box Contents:
- Quick Start Guide
- Cel-Fi SOLO Unit
- Mounting Bracket
- AC Adapter
- Whip Antenna
- Patch Antenna

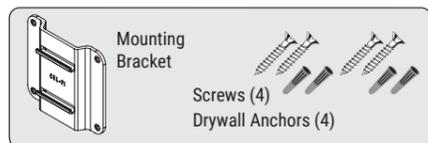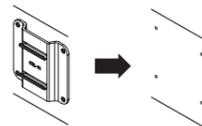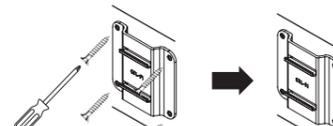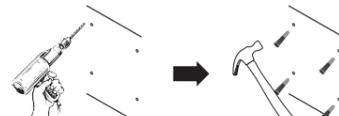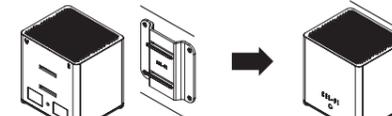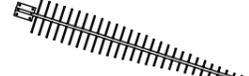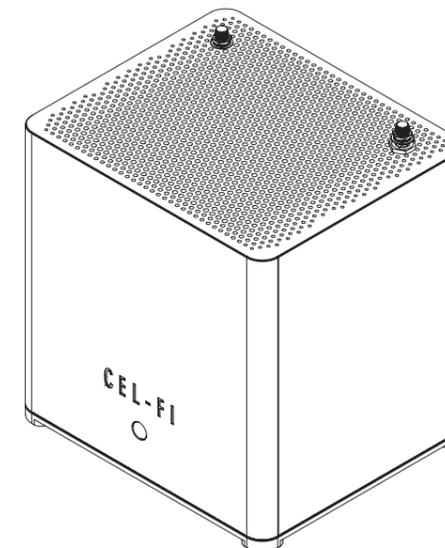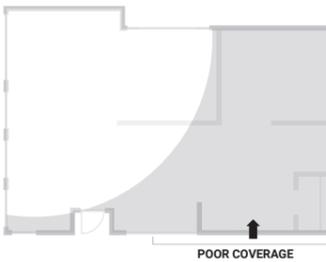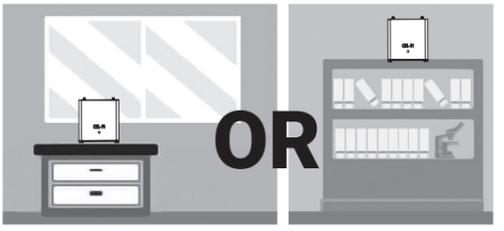# Cel-Fi™ SOLO Installation

IMPORTANT: Your **Cel-Fi SOLO** is electronic equipment. The **Cel-Fi SOLO** must be kept indoors and in a dry, cool, well ventilated area.

Included In the Box

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

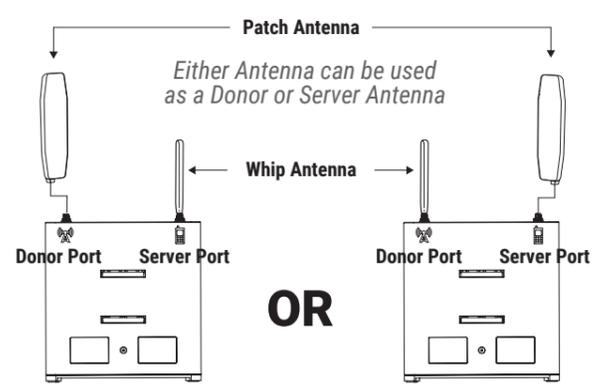| CEL-FI Main Unit | Mounting Bracket | Whip Antenna | Patch Antenna | AC Adapter |

1 Define Coverage Problem

Determine where coverage is needed.

POOR COVERAGE

2 Place Main Unit

OR

Place the Main Unit where signal exists *(i.e. window)*. This will be the Donor Signal. Alternatively the Patch Antenna can be placed here, and the Main Unit can be placed at a distance.

3 Attach Server and Donor Antennas

Attach the Whip and Patch antennas accordingly.

Patch Antenna

Either Antenna can be used as a Donor or Server Antenna

Whip Antenna

Donor Port   Server Port   Donor Port   Server Port

OR

4 Plug In Cel-Fi SOLO

CEL-FI

Plug-in the unit to power. The LED on the front will blink during setup.

5 Cel-Fi WAVE App

Download on the **App Store**   GET IT ON **Google Play**

The Cel-Fi WAVE app can be used to optimize the Cel-Fi SOLO's performance.
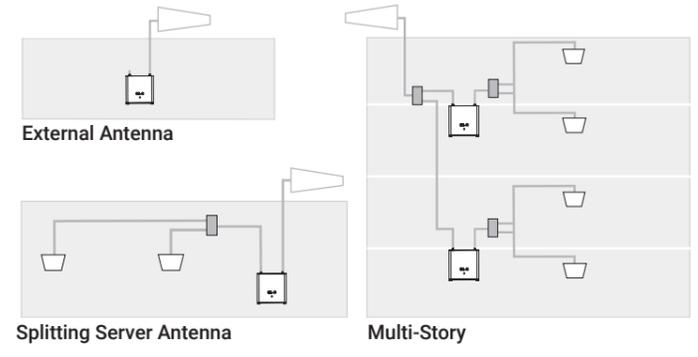
The antenna locations can be adjusted or relocated and system performance quickly assessed via the Cel-Fi WAVE app.

Advanced Install

For best results, separate the donor and server antenna(*s*) as much as possible. Antenna separation *(isolation)* can be achieved with either physical distance or by having materials (like a wall) between the antennas.

Make sure any cables, splitters, and antennas used in the system are properly matched. *(Cel-Fi SOLO is rated for 50Ω)*

Recommend
• > 30dBm port-isolation for any splitter

Downlink power should be:
• > 0dBm to use a two-way splitter
• > 3dBm to use a four-way splitter

External Antenna

Splitting Server Antenna   **Multi-Story**
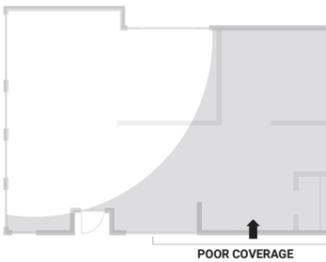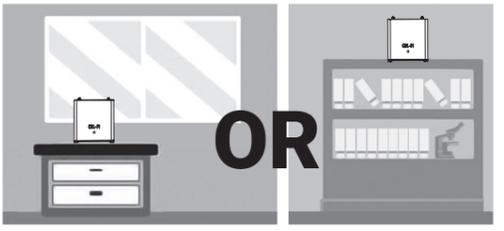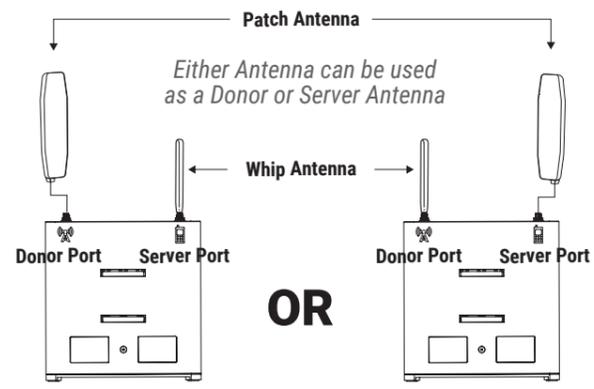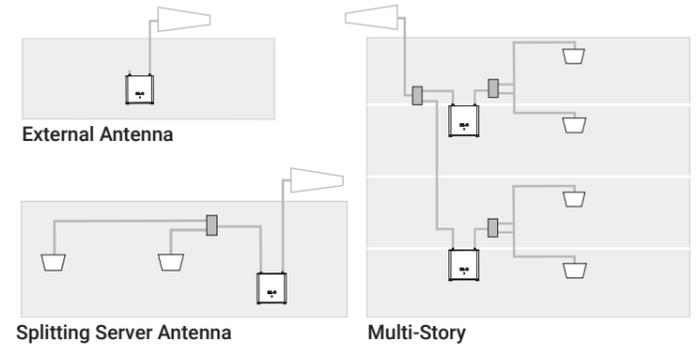
Cel-Fi Safe

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