### Technology LTE

- **Per channel signal bandwidth (MHz)**: 20
- **Uplink (UL) Frequency (MHz)**: 1710 - 1785
- **Downlink (DL) Frequency (MHz)**: 1805 - 1880
- **Duplex separation (MHz)**: 190

- **Per channel signal bandwidth (MHz)**: 20
- **Uplink (UL) Frequency (MHz)**: 1920 - 1980
- **Downlink (DL) Frequency (MHz)**: 2620 - 2690
- **Duplex separation (MHz)**: 120

- **Per channel signal bandwidth (MHz)**: 20
- **Uplink (UL) Frequency (MHz)**: 2500 - 2570
- **Downlink (DL) Frequency (MHz)**: 2620 - 2690

### Technology HSPA & LTE

- **Duplex separation (MHz)**: 190
- **Per channel signal bandwidth (MHz)**: 20
- **Downlink (DL) Frequency (MHz)**: 2110 - 2170

### Technology LTE

- **Duplex separation (MHz)**: -41
- **Per channel signal bandwidth (MHz)**: 20
- **Uplink (UL) Frequency (MHz)**: 832 - 862
- **Downlink (DL) Frequency (MHz)**: 925 - 960

### Technology HSPA & LTE

- **Duplex separation (MHz)**: 45
- **Per channel signal bandwidth (MHz)**: 15
- **Uplink (UL) Frequency (MHz)**: 880 - 915
- **Downlink (DL) Frequency (MHz)**: 925 - 960

#### Specifications

- **IP Rating**: 20
- **CE**: Yes
- **Non-condensing Relative Humidity**: 0 - 95%
- **Operating Temperature**: 0 - 40 ºC
- **Cooling**: Convection
- **Weight**: LxWxH (mm) 80 x 158 x 163
- **Power**: Uplink Power - Bands: 8, 20 22 dBm, Downlink Power - All: 8, 20 dBm
- **Antenna Ports**: 4
- **Frequency**: 698MHz – 2700MHz
- **HSPA/W-CDMA**: 3.84 MHz
- **Supported Carriers**: LTE 5, 10, 15, 20 MHz
- **Impedance**: 50 Ohms
- **Port Isolation**: 110dB
- **Return Loss**: -8dB
- **Surface Temp Max**: 44 º C
- **IP Rating**: 20
- **Cooling**: Convection
- **Weight**: LxWxH (mm) 80 x 158 x 163

#### Additional Antenna Options

- **Cel-Fi Indoor Omni Donor Antenna**
- **Cel-Fi Wideband Panel Antenna**
- **Cel-Fi LPDA Antenna**
- **Cel-Fi Wideband Directional Antenna**

#### Mounting Instructions

1. **Determine Cel-Fi SOLO location.** (Refer to installation section)
2. **Install mounting brackets.**
3. **Determine mounting hole locations.**
4. **In each marked spot, use a 3/16” drill bit to drill guide holes for the anchors. Install anchors (Drywall).**

**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.

**Additional Antenna Options**

- **Cel-Fi Indoor Omni Donor Antenna**
- **Cel-Fi Wideband Panel Antenna**
- **Cel-Fi LPDA Antenna**
- **Cel-Fi Wideband Directional Antenna**

**Box Contents:**
- Quick Start Guide
- Cel-Fi SOLO Unit
- Mounting Bracket
- Patch Antenna

**Required Hardware:**
- Screws (4)
- Mounting Brackets
- Cel-Fi SOLO Unit
- Quick Start Guide

**Surface Temp Max**: 44 º C
- **IP Rating**: 20
- **Cooling**: Convection
- **Weight**: LxWxH (mm) 80 x 158 x 163

**Mounting Instructions**

1. **Determine Cel-Fi SOLO location.** (Refer to installation section)
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.**

**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.

**Additional Antenna Options**

- **Cel-Fi Indoor Omni Donor Antenna**
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**Box Contents:**
- Quick Start Guide
- Cel-Fi SOLO Unit
- Mounting Bracket
- 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.

1. **Define Coverage Problem**
   - Determine where coverage is needed.

2. **Place Main Unit**
   - 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.

4. **Plug In Cel-Fi SOLO**
   - Plug-in the unit to power. The LED on the front will blink during setup.

5. **Cel-Fi WAVE App**
   - 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

**Included In the Box**
- Main Unit
- Mounting Bracket
- Whip Antenna
- Patch Antenna
- AC Adapter

**External Antenna**
- Multi-Story

**Or**

**Splitting Server Antenna**

**Additional Antenna**

**Or**

**Whip Antenna**

**Or**

**Patch Antenna**

**Or**

**Donor Port**

**Server Port**

Either Antenna can be used as a Donor or Server Antenna

**Cel-Fi Safe**

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