Cel-Fi GO X uses Nextivity's award-winning, network-safe Cel-Fi Smart Signal Booster technology to dramatically improve voice and data coverage in up to two (2) bands for 3G/4G/LTE. It is designed to improve indoor and outdoor cellular coverage when one bar is available outdoors, by allowing an antenna to be used to improve indoor cellular performance. Cel-Fi GO X is cost efficient and easy-to-deploy by an installer, and can be easily optimized and monitored by the Cel-Fi WAVE platform.

**Features:**

- Superior Performance: 100dB Max Gain
- NEMA 4 Rated
- Multi-carrier Support with Carrier Switching app
- Carrier Approved for 3G/4G/LTE for Voice and Data
- Unconditionally Network Safe
- SMA Female Antenna Connectors
- Cel-Fi WAVE Management Platform

### Wireless Features

- 3G/4G/LTE support (WCDMA / HSPA+ / LTE)
- Supports two (2) bands simultaneously from a single operator
- FDD
- Up to 100dB system gain, per band
- Peaceful coexistence with adjacent Wi-Fi (2.4 GHz & 5 GHz), femtocells, and cellular devices
- Advanced digital echo-cancellation (>30dB) and channel select filtering algorithms
- Automatic Gain Control (AGC) based on fast real-time echo-cancellation
- Linear RF front end
- Adaptive signal equalization
- Uses Nextivity's 3rd-generation "ARES" chipset

### System Features

- SMA Female connectors for Donor and Server antennas
- NEMA 4 rated enclosure and connectors
- Support for BIAS-TEE power through Server port
- Glanceable LED User Interface (UI)
- Supporting smart phone application (Cel-Fi WAVE)
- Convection cooled cast aluminum chassis
- Easy mounting capability
- Mounting screws and anchors included

### Mobile Network and Network Protection Features

- Global band combinations available
- Systems are pre-configured for a single carrier (network operator)
- Supports multiple channels with bandwidths of 5/10/15/20 MHz per channel
- Works with any user equipment (UE) on the configured network (no whitelist/blacklist)
- Up to 40 MHz system relay bandwidth
- Support for 3GPP Release 10 features
- Provider-specific system: Cel-Fi distributes and boosts service only for the Operator PLMNIDs for which the device is authorized and configured
- Secure and ciphered provisioning
- System intelligence accurately establishes proper safe uplink power in real time
- Uplink Muting Mode automatically shuts down uplink cellular transmissions when no active user equipment is detected
- System shuts down upon Operator's network command or failure detection

### Wireless Benefits

- Clear and reliable cellular connections within coverage area up to 15,000 ft² (1,400 m²) per system
- Highest gain (100dB) provides best coverage footprint
- Advanced Echo-Cancellation allows Cel-Fi to transmit more power without feedback interference
- Subscriber devices (UE) require less transmit power for improved battery life
- Linearity eliminates IMD desense issues
- Dynamic gain control ensures maximum gain — best coverage — at all times in ever changing RF environments, without user intervention

### System Benefits

- Distribute and boost cellular coverage
- 3G and 4G support, Voice and Data, network safe

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Cel-Fi WAVE is a smartphone app that will help you get the best performance from your Cel-Fi GO X.
LED cues provide visual feedback for ease of setup and status.

Works with any subscriber device from the configured Operator.

Mobile Network Benefits

- Flexibly deploy on LTE, VoLTE, LTE-Advanced, and WCDMA networks, with multiple cellular bands, simultaneously.
- Automatically adjusts channel bandwidths between 5 MHz and 20 MHz.
- UE control is transparent and remains centralized in the network core (no gateways or third-party software).

Compliance

(see individual product version for specific regional compliance)

- 3GPP TS 25.143 Rel.10
- 3GPP TS 36.143 Rel.10
- FCC Part 15, 20, 22, 24, 27
- ISED (Industrie Canada)
- Bluetooth BQB
- CE

System Management

(Software)

- Supported by Cel-Fi WAVE cloud portal.
- Cel-Fi WAVE Portal capability:
  - Status (list and map)
  - Commissioning
  - Diagnostics
  - Software Updates
  - Settings
  - Reporting
  - Alarms & Notifications

Antenna Ports

(Donor and Server)

- Impedance: 50 Ohm
- Return Loss: 8dB
- Output Protection

Environmental

- Operating temperature: 0° to 65° C
- Convection Cooling
- Relative humidity: 0% to 95%, noncondensing
- RoHS 2 (European and China compliant)
- WEEE
- NEMA 4
- Surface Temp at any point (30° ambient): 53° C

Dimensions

<table>
<thead>
<tr>
<th>Height</th>
<th>Width</th>
<th>Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>43.5 mm</td>
<td>96.5 mm</td>
<td>272.5 mm</td>
<td>850 g</td>
</tr>
</tbody>
</table>

Power

- 9.6 – 16.5V
- 2A current draw
- 16W nominal power consumption

Installation

- DC Power Plug and Jack: NEMA 4 rated power plugs and jacks

Radio Performance

The Cel-Fi GO system can boost up to two (2) bands concurrently. Each profile can be selected:
A) One (1) High band boost and one (1) low band boost or
B) Two (2) high bands boost.

<table>
<thead>
<tr>
<th>Band</th>
<th>Downlink MHz</th>
<th>Uplink MHz</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2110-2170</td>
<td>1920-1980</td>
<td>Up to 20 MHz contiguous boost, HSPA or LTE</td>
</tr>
<tr>
<td>2</td>
<td>1930-1990</td>
<td>1850-1910</td>
<td>Up to 20 MHz contiguous boost, HSPA or LTE</td>
</tr>
<tr>
<td>3</td>
<td>1805-1880</td>
<td>1710-1785</td>
<td>Up to 20 MHz contiguous boost, HSPA or LTE</td>
</tr>
<tr>
<td>4</td>
<td>2110-2155</td>
<td>1710-1755</td>
<td>Up to 20 MHz contiguous boost, HSPA or LTE</td>
</tr>
<tr>
<td>5</td>
<td>869-894</td>
<td>824-849</td>
<td>Up to 15 MHz contiguous boost, HSPA or LTE</td>
</tr>
<tr>
<td>7</td>
<td>2620-2690</td>
<td>2500-2570</td>
<td>Up to 20 MHz contiguous boost, LTE</td>
</tr>
<tr>
<td>8</td>
<td>925-960</td>
<td>880-915</td>
<td>Up to 15 MHz contiguous boost, LTE</td>
</tr>
<tr>
<td>12</td>
<td>729-746</td>
<td>699-716</td>
<td>Up to 10 MHz contiguous boost, LTE</td>
</tr>
<tr>
<td>13</td>
<td>746-756</td>
<td>777-787</td>
<td>Up to 10 MHz contiguous boost, LTE</td>
</tr>
<tr>
<td>20</td>
<td>791-821</td>
<td>832-862</td>
<td>Up to 20 MHz contiguous boost, LTE</td>
</tr>
</tbody>
</table>

Maximum DL in-band donor level -40dBm

Maximum UL power 22dBm bands 1, 2, 3, 4, 7, 8
Maximum UL power 20dBm bands 5, 12, 13, 20
Maximum DL power 10dBm per 5 MHz bands 1, 2, 3, 4, 7, 8
Maximum DL power 10dBm per 5 MHz bands 5, 12, 13, 20

LTE 5/10/15/20 MHz and WCDMA 5 MHz bandwidths