Cel-Fi GO M uses Nextivity’s award-winning, network-safe Cel-Fi Smart Signal Booster technology to dramatically improve voice and data coverage in up to two bands for 3G/4G/LTE. It is designed to boost mobile coverage for multiple users in trucks, automotive, RVs, and marine installations. Cel-Fi GO M is cost efficient and easy-to-deploy by an installer, and can be optimized and monitored by the Cel-Fi WAVE Platform. Versions are available for use on various global carriers.

**Benefits:**

- Superior performance: 65 – 70dB max gain with IntelliBoost
- Environmental rating: Outdoor NEMA 4 Rating
- Multi-carrier support with carrier switching
- Multi-user support
- Carrier approved for 3G/4G/LTE for voice and data
- Unconditionally network safe
- SMA 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 65dB (FCC) and 70dB (ETSI) system gain, per channel
- 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 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 12,500 ft² (1000 m²) per system
- Highest gain 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
- Nextivity purpose-built, high-performance, six core ASIC processor, provides best performance at lowest cost

**System Benefits**

- Distribute and boost cellular coverage
- 3G and 4G support, Voice and Data, network safe
LED cues provide visual feedback for ease of setup and status
Works with any subscriber device from the configured Operator

Mobile Network Benefits

Mobile Network Benefits
Flexibly deploy on LTE, VoLTE, LTE-Advanced, and WCDMA networks, with multiple cellular bands, simultaneously
Automatically adjusts channel bandwidths between 5MHz and 20MHz
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 (Industré 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
ISED
NEMA 4
Surface Temp at any point (30° ambient): 53° C

Dimensions

Height  Width  Length  Weight
43.5 mm  96.5 mm  272.5 mm  850 g

Power

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

Installation

Mounting hardware included
NEMA 4 rated power plugs and jack

DC Power Plug and Jack

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

Band Variations:
(check product version for specific band support)

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