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/5G. 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/5G for Voice and Data
- Unconditionally Network Safe
- SMA Female Antenna Connectors
- Cel-Fi WAVE Management Platform

Wireless Features

- 3G/4G/5G 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
- Nextivity purpose-built, high-performance, six core ASIC processor, provides best performance at lowest cost

System Benefits

- Distribute and boost cellular coverage
- 3G, 4G and 5G support, Voice and Data, network safe
Mobile Network Benefits
LED cues provide visual feedback for ease of setup and status
Works with any subscriber device from the configured Operator
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
(choose 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

Antenna Ports
(For Donor and Server)
Model: G32-3/0/0/0/0: 1710–2170 MHz
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
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
DC Power Plug and Jack
Mounting hardware included
NEMA 4 rated power plugs and jack

Radio Performance
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>Model Number</th>
<th>Bands Supported</th>
<th>Downlink MHz</th>
<th>Uplink MHz</th>
</tr>
</thead>
<tbody>
<tr>
<td>G32-2/4/5/12/13X</td>
<td>2, 4, 5, 12, 13</td>
<td>2110-2170 MHz</td>
<td>1920-1980 MHz</td>
</tr>
<tr>
<td>G32-1/3/5/7/8/20X</td>
<td>1, 3, 5, 7, 8, 20</td>
<td>1930-1990 MHz</td>
<td>1850-1910 MHz</td>
</tr>
<tr>
<td>G32-1/3/0/0/0/0X</td>
<td>1, 3</td>
<td>1805-1880 MHz</td>
<td>1710-1785 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

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