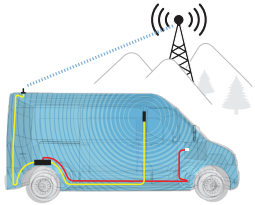


# CEL-FI GO M



**5GSTORE**  
HELPING YOU STAY CONNECTED

## 3G / 4G / 5G

Smart Signal Booster™



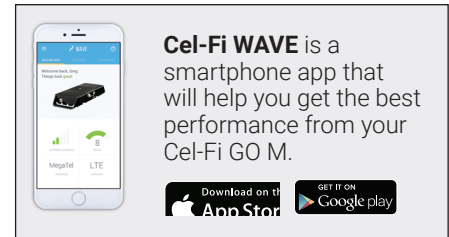
DATA SHEET

**MODEL NUMBERS:**  
G32-2/4/5/12/13M  
G32-1/3/5/7/8/20M

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.

## Features:

- **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/5G for voice and data**
- **Unconditionally network safe**
- **SMA Female antenna connectors**
- **Cel-Fi WAVE management platform**



**Cel-Fi WAVE** is a smartphone app that will help you get the best performance from your Cel-Fi GO M.

Download on the App Store  
GET IT ON Google play

### Wireless Features

3G/4G/5G 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 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 12,500 ft<sup>2</sup> (1000 m<sup>2</sup>) 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, 4G and 5G support, Voice and Data, network safe

## Mobile Network Benefits

### Compliance

(check individual product version for specific regional compliance)

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 5MHz and 20MHz  
UE control is transparent and remains centralized in the network core (no gateways or third-party software)

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)

**Model:** G32-1/3/5/7/8/20: 791–2690 MHz  
**Model:** G32-2/4/5/12/13: 699–2180 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

## 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 Radio Performance

Mounting hardware included  
NEMA 4 rated power plugs 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)

Model Number		G32-2/4/5/12/13M		G32-1/3/5/7/8/20M	
Bands Supported		2, 4, 5, 12, 13		1, 3, 5, 7, 8, 20	
Band	Downlink	Uplink	MHz		
1	2110-2170 MHz	1920-1980 MHz	Up to 20 MHz contiguous boost, HSPA or LTE		
2	1930-1990 MHz	1850-1910 MHz	Up to 20 MHz contiguous boost, HSPA or LTE		
3	1805-1880 MHz	1710-1785 MHz	Up to 20 MHz contiguous boost, HSPA or LTE		
4	2110-2155 MHz	1710-1755 MHz	Up to 20 MHz contiguous boost, HSPA or LTE		
5	869-894 MHz	824-849 MHz	Up to 15 MHz contiguous boost, HSPA or LTE		
7	2620-2690 MHz	2500-2570 MHz	Up to 20 MHz contiguous boost, LTE		
8	925-960 MHz	880-915 MHz	Up to 15 MHz contiguous boost		
12	729-746 MHz	699-716 MHz	Up to 10 MHz contiguous boost, LTE		
13	746-756 MHz	777-787 MHz	Up to 10 MHz contiguous boost, LTE		
20	791-821 MHz	832-862 MHz	Up to 20 MHz contiguous boost, LTE		

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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