

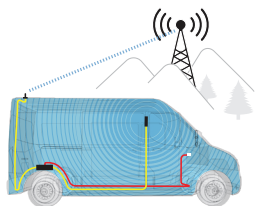
CEL-FI GO M

3G / 4G / LTE

Smart Signal Booster™



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.

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

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/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

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 5MHz and 20MHz

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

Compliance

(check 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 (Industre 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
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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

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)

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