MODEL NUMBERS G32-1/3/5/7/8/20X



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.



Benefits:

- 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 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 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-Cancelation 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 5 MHz and 20 MHz

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

System Management (Software) Supported by Cel-Fi WAVE cloud portal

Cel-Fi WAVE Portal capability:

· Status (list and map) Commissioning

SettingsReporting

 Diagnostics Software Updates · 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

Surface Temp at any point (30° ambient): 53° C

Dimensions

43.5 mm 96.5 mm 272.5 mm 850	g

Power

9.6 - 16.5V

2A current draw

16W nominal power consumption

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

Installation **DC Power Plug and Jack Radio Performance**

Band Variations: (check product version for

specific band support)

Model Number		G32-2/4/5/12/13X		G32-1/3/5/7/8/20X	
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

