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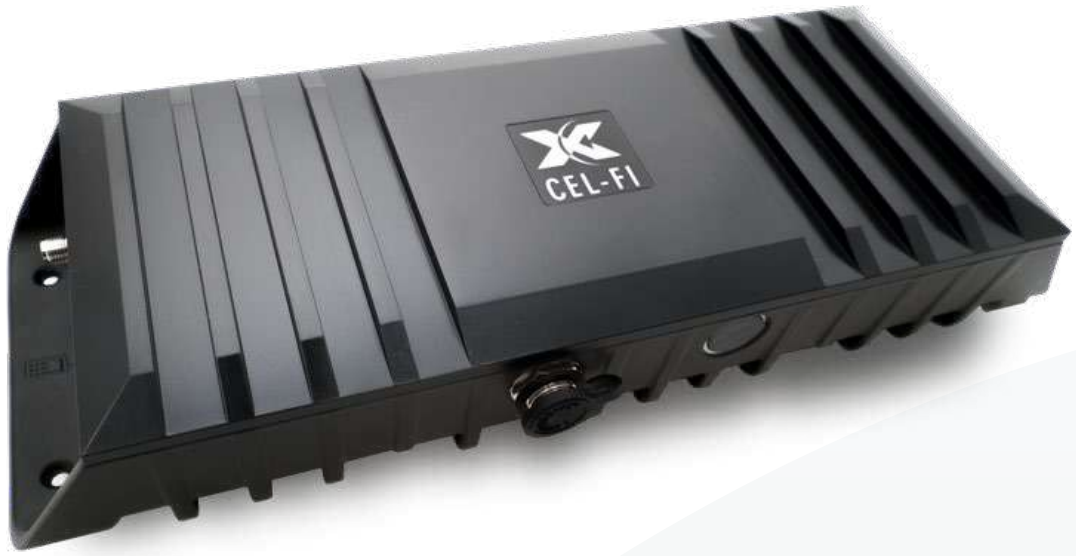
PRODUCT DATASHEET
Cel-Fi GO G32

NEXTIVITY
Smarter by Design

CEL-FI GO G32

5G/4G/3G Smart Signal Repeater

RCM Approved



The World's First All-in-One Cellular Coverage Solution for Indoor/Outdoor Stationary and Mobile Applications

Designed to solve cellular coverage issues for indoor and outdoor applications, the Cel-Fi GO G32 Smart Signal Repeater is the first carrier-class cellular coverage solution to offer industry-leading signal gain. Through artificial intelligence and Nextivity's award-winning IntelliBoost® signal processing, GO G32 delivers the industry's best voice and data wireless performance.

The system is also guaranteed to be unconditionally network safe and does not interfere with other wireless devices. Plus, GO G32 is NEMA 4 rated to provide reliable coverage in any setting.

Mobile Mode: Industry Leading Gain:
Up to 100 dB (depending on region) gain. This is over 1000 times stronger than any competitor. Nextivity's award-winning Intelliboost signal processing leverages artificial intelligence to deliver for mobile subscribers on the move.

Stationary Mode: Industry Leading Gain:
Up to 100 dB globally (1000x), delivering the industry's best voice and data wireless performance and the industry's largest coverage footprint.

Indoor/Outdoor NEMA 4 Rating:
Industrially designed for harsh conditions, enables the device to support weather conditions that include water, dust and dirt.

5G/4G/3G Multi-Carrier Support with Carrier Switching:
Select your network operator/carrier from the CEL-FI WAVE app.

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Key Features

Maximum Gain

Industry-Leading 5G/4G/3G Voice and Data (65 db Mobile/100 dB Stationary Depending on the Region)

Best Performance

Smart Signal Repeater with IntelliBoost® Chipset Smart Technology

Cellular Coverage

Multi-User Mobile or Stationary Modes for Buildings, Residential, Remote, Vehicle, Trucking, RV, and Marine

Ease of Setup

6 Steps for Installers and Maximised by AntennaBoost™ for Optimum System Performance

Cel-Fi WAVE

Mobile Device Application for System Set up and Changing Modes and Carriers

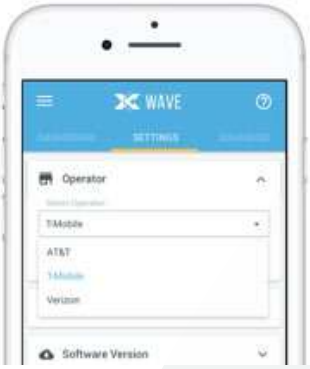
Weather Resistant

Indoor/Outdoor NEMA 4 and IP66 Rated

Network Safe

Carrier Approved with No Noise Guarantee

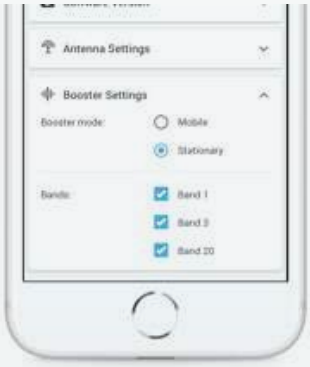
Flexibility at your fingertips



Operator Switching

Selecting your network operator is easy. Just download the Cel-Fi WAVE app and select your Mobile Network Operator/Carrier from the Settings page.

Watch the video



Mode Switching

Switch between Mobile and Stationary through the Cel-Fi WAVE app. Simply connect to your booster and select the Mode from the Settings page.

Watch the video

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Compare Cel-Fi GO Solutions

Stationary

Ideal for use in commercial properties, government buildings, agricultural settings, small manufacturing operations, rural areas and large homes.

Stationary Solutions

The CEL-FI GO G32 (previously CEL-FI GO X) Indoor/Outdoor solution is ideal for use in commercial properties, government buildings, small manufacturing operations, agricultural settings, rural areas, IoT applications, businesses and large homes for up to 15,000 ft² per system (1,500 m²). A variety of CEL-FI donor and server antennas can be used based on environmental needs.

Mobile

The GO G32 all-in-one Smart Signal Booster is the best solution for addressing the universal challenge of poor cellular coverage on the road. Select the appropriate donor/server antenna bundle for the application to deliver the best voice/data wireless performance for vehicles and boats on the move.

Vehicle Solutions

Ready for the highway, but need to stay connected? The CEL-FI GO G32 (previously CEL-FI GO M) features two of the best-performing antennas in their footprint on the market. These antennas are outdoor wideband cellular omnidirectional antennas with up to 4 dB gain. The weather-resistant IP67 plastic casings are built to securely attach to autos, trucks, vans, and SUVs.

RV and Trucker Solutions

Ready to hit the road or plan to connect in remote areas? The CEL-FI GO G32 (previously CEL-FI GO M) features the CEL-FI Trucker Antenna, that was developed by Nextivity to offer a high-performance wideband antenna option for over-the-road (OTR) users. The product features a heavy-duty spring base and includes a ladder or mirror-mount for easy installation.

Marine Solutions

All aboard, as being on the water shouldn't mean losing your connection. The CEL-FI GO G32 (previously CEL-FI GO M) combined with the industrial CEL-FI Marine Antenna, that will connect to cell towers along the coast. The product features a heavy-duty marine casing and includes a pole mount for easy installation.

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Specifications

Wireless Features	3G, 4G, and 5G support (WCDMA/HSPA+/LTE)
	Supports two (2) bands simultaneously from a single operator
	FDD
	Up to 100 dB system gain per band
	Peaceful coexistence with adjacent Wi-Fi (2.4 GHz & 5 GHz), femtocells, and cellular devices
	Advanced digital echo-cancellation (>30 dB) and channel select filtering algorithms
	Automatic Gain Control (AGC) based on fast real-time echo-cancellation
	Linear RF front end
	Adaptive signal equalisation
	Uses Nextivity proprietary 3rd-generation "ARES" chip
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 (Nextivity 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 pre-configured for a single carrier (network operator)
	Supports multiple channel bandwidths of 3.84/5/10/15/20 MHz per channel
	Works with any user equipment (UE) for the configured network (no whitelist/blacklist)
	Up to 40 MHz relay bandwidth
	Support for 3GPP Release 10 features
	Provider-specific system: distributes and boosts service only for the Operator PLMNIDs for which the device is authorised 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
System Benefits	Distribute and boost cellular coverage
	3G, 4G, and 5G 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

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Wireless Benefits	Clear and reliable cellular connections within coverage area
	Highest gain (100 dB) provides best coverage footprint
	Advanced Echo-Cancelation allows device to transmit more power without feedback interference
	Subscriber devices 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
Mobile Network Benefits	Flexibly deploy in 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 centralised 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
	Nextivity WAVE Remote Management: 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
	Impedance: 50 Ohm
	Return Loss: 8dB
	Output Protection
Dimensions	**Height:** 43.5 mm, **Width:** 96.5 mm, **Length:** 272.5 mm **Weight:** 850g
Power	9.6 – 16.5V
	2A current draw
	16W nominal power consumption
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
Installation	Mounting hardware included

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DC Power Plug and Jack	NEMA 4 rated power plugs and jack		
Radio Performance	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		
Engineering Details	The operating frequency for each technology (2G, 3G, and 4G) / service provider	:	Programmed to the frequencies and channels of one of the service providers
	EIRP	:	UL: 22 dBm per band, DL: 26 dBm per band
	Uplink and downlink system gain	:	Up to 100 dB
	Up to 100dB Standby Uplink noise power	:	0mW
	Noise	:	6 dB
	Minimum Signal Drive	:	Limited by SW to: 3G RSCP: -104 dBm 4G RSRP: -120 dBm
	Dynamic Range	:	>30 dB
	Automatic Oscillation detection time	:	Instantaneous (we use Echo mitigation techniques)
	Technology	:	3G, 4G
	Number of Frequency Bands	:	2 (bands 900 and 1800)
	Outdoor Antenna Gain	:	0 dBi
	Antenna Type Outdoor	:	Omni

Bands

Band	Downlink	Uplink	Boost
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

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Ordering Information

Model No.	Max Gain	CEL-FI WAVE Mode	Power Adapter(s)	Antennas Included	Bands Supported	Maximum UL power	Maximum DL power
G32-1/3/5/7/8/20X	100 dB	Stationary	AC	N/A	1, 3, 5, 7, 8, 20	22 dBm: 1, 3, 5, 7, 8 20 dBm: 20	10 dBm per 5 MHz
G32-1/3/5/7/8/20M	70 dB	Mobile	SLA	Mobile Mag Mount and Patch Server	1, 3, 5, 7, 8, 20	22 dBm: 1, 3, 5, 7, 8 20 dBm: 20	10 dBm per 5 MHz

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