GEL-FI

3G / 4G / LTE

Smart Signal Booster ...

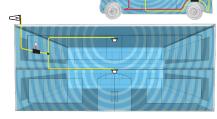


MODEL NUMBERS: G32-2/4/5/15/13P

DATA SHEET



Cel-Fi GO+ uses Nextivity's award-winning, network-safe Cel-Fi Smart Signal Booster technology to dramatically improves voice and data coverage in up to two bands for 3G/4G/LTE. It's guaranteed to be unconditionally network safe and does not interfere with other wireless devices. In mobile mode, Cel-Fi GO+ is designed to boost mobile coverage for multiple users in trucks, automotive, RVs, and marine installations. In stationary mode, Cel-Fi GO+ delivers 1000x better gain across the industry's largest coverage footprint. Cel-Fi GO+ is cost efficient and easy-to-deploy, and can be optimized and monitored by the Cel-Fi WAVE Platform.



Features:

- 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-Female antenna connectors
- Cel-Fi WAVE management platform
- Superior performance: 65 dB (mobile mode) and 100 dB (stationary mode) max gain with IntelliBoost™
- All-in-One Cellular Coverage Solution: with mode switching between mobile and stationary modes

Wireless Features

3G/4G/LTE support (WCDMA / HSPA+ / LTE)

Supports two (2) bands simultaneously from a single operator

FDD

Up to 65 dB (mobile mode) and 100 dB (stationary mode) system gain, per channel

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 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 withing coverage area up to 12,500 ft² (mobile mode)

and 15,000 ft² (stationary mode) per system

Highest gain 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

LED cues provide visual feedback for ease of setup and status

Works with any subscriber device from the configured Operator

Mobile Network Benefits

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 Diagnostics

Software Updates

Settings Reporting

Alarms & Notifications

Antenna Ports (Donor and Server)

Model: G32-2/4/5/15/13P: 699-2180 MHz

Impedance: 50 Ohm Return Loss: 8 dB

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

STATIONARY MODE

MODEL NUMBER

Installation

Mounting hardware included

DC Power NEMA 4 Rated Plug and Jack (both power supplies included

for stationary and mobile)

AC Power





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

Bands Supported			2, 4, 5, 12, 13
BAND	DOWNLINK	UPLINK	
2	1930-1990 MHz	1850-1910 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
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

Band Variations:

(check product version for specific band support) Maximum DL in-band donor level -40 dBm

Maximum UL power 22 dBm bands 2, 4

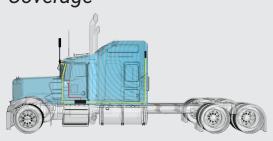
Maximum UL power 20 dBm bands 5, 12, 13

Maximum DL power 10 dBm per 5 MHz bands 2, 4 Maximum DL power 10 dBm per 5 MHz bands 5, 12, 13

LTE 5/10/15/20 MHz and WCDMA 5 MHz bandwidths

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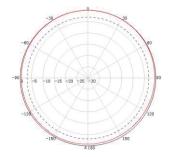




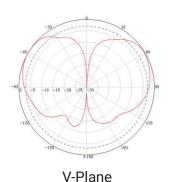


Model: A21-V31-100

The Cel-Fi Trucker Antenna 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 mirror-mount for easy installation.



H-Plane



SPECIFICATIONS

ELECTRICAL SPECIFICATION

Frequency Range	698-960 MHz	1710-2700 MHz
Gain	4dBi	
VSWR	≤2.0	≤1.8
Polarization	Vertical	
Horizontal Beamwidth	360°	
Vertical Beamwidth	60°	
Input Impedance	50 Ω	
Maximum Power	100 W	
Lightning Protection	DC Ground	

MECHANICAL SPECIFICATION

Connector	SMA Male
Length of Cable	4m cable
Dimensions	600 mm
Weight	1.0 kg
Reflector Material	Aluminum
Radome Material	UV-PVC
Operating Temperature	-40 °C to +65 °C
Mounting Pole	Ø38xØ52 mm
Color	Black

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Model: A41-V30-100

The Cel-Fi Mobile Server Antenna is a cellular / LTE patch antenna. The Cel-Fi Mobile Server Antenna has an adhesive mount for ease of installation.

SPECIFICATIONS

ELECTRIC SPECIFICATION

Frequency Range	698-960/1710-2690 MHz
Bandwidth	90/170 MHz
Gain	2.5 dBi
VSWR	≤2.0
Input Impedance	50 Ω
Polarization	Vertical
Maximum Power	50 W
Connector	SMA MALE
Cable type	RG174

MECHANICAL SPECIFICATION

Length	4m
Dimension	4X22×115mm

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