RISING CONNECTION

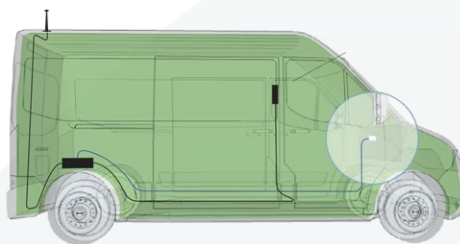**CEL-FI** by **NEXTIVITY**™

Cel-Fi Go Mobile

Mobile Smart Signal Repeater

The Cel-Fi GO Mobile Smart Signal Repeater, the first carrier-class mobile cellular coverage solution to feature industry leading 70dB system gain and Nextivity's unconditional network safe guarantee. Cel-Fi GO Mobile leverages artificial intelligence and award winning Intelliboost signal processing to deliver the industry's best voice and data wireless performance for mobile subscribers on the move. Cel-Fi GO Mobile is IP54 rated weather resistant and does not interfere with other wireless devices. This multi-band solution is ideal for trucks, vehicles, RVs, and boats.

- 3G / 4G / 4GX Voice and Data
- Multi-User Mobile Coverage
- Multi-Band Support
- Indoor / Outdoor IP54 Rated
- Network Safe

The Cel-Fi GO has a rugged design to withstand harsh conditions including dust and water exposure. Cel-Fi GO utilises nanotechnology to produce a thin film coating across the entire PCB assembly. This coating, combined with an industrial design for harsh conditions, enables the device to support weather conditions that include water, dust, and dirt.

Get setup in 5 easy steps

Step 1	Step 2	Step 3	Step 4	Step 5
Install Donor Antenna	Install Server Antenna	Mount Cel-Fi GO Mobile	Connect Donor & Server Antennas to the Cel-Fi GO Mobile Unit	Plug in Cel-Fi GO Mobile

RISING CONNECTION

Antennas for Cel-Fi GO Mobile

Mag Mount (Magnetic)

The Cel-Fi Mobile Mag Mount Antenna is one of the best-performing antennas in its footprint on the market. It's an outdoor wideband cellular omni-directional antenna with 2 to 4dB gain.

The weather-resistant IP67 plastic casing is built to securely attach to autos, trucks, vans, SUVs, and RVs.

Server Antenna

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.
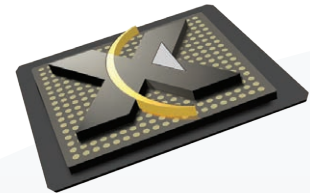
The Building Blocks

Cel-Fi WAVE Portal

- Cel-Fi device and asset management
- Data modeling and reporting
- Mobile and computer applications
- Globally trusted carrier-grade security
- Users can access the Cel-Fi WAVE portal through the dashboard interface, or integrate it via APIs.

Network Safe

Self-organising edge intelligence ensures that Cel-Fi GO do not interfere with other indoor wireless products such as Wi-Fi routers, Small Cells, and Distributed Antenna Systems (DAS). High speed Automatic Gain Control ensures that Cel-Fi GO is unconditionally network safe, and enables more simultaneous calls and higher data speeds.

IntelliBoost™ Chipset

The Nextivity IntelliBoost™ baseband processor is the first six-core processor designed specifically to optimise the indoor transmission and reception of 3G/4G/4GX wireless signals. With advanced filtering, equalisation and echo cancellation techniques, Nextivity has developed an architecture which delivers unprecedented in-building data rates and pervasive 3G/4G/4GX connectivity. The IntelliBoost processor ensures that Cel-Fi products never negatively impact the macro network while providing maximum coverage.

Benefit to Consumers

Improved Voice Coverage : Enables clear and reliable voice connections within the coverage area — whether a car, marine vessel, large home, or office.

Improved Data Throughput : For indoor areas with poor reception, Cel-Fi offers significant data throughput improvements for HSPA+ or LTE — often achieving a 4x improvement.

Improved Battery Life : Cel-Fi manages the power levels between the cell tower and user devices so that subscriber devices transmit much less power and enjoy improvements in battery life.

Ease of Installation : Cel-Fi GO Mobile Kit includes a 12V CLA style power adapter. Once installed, Cel-Fi GO intelligently and automatically senses and adapts to its environment — including Operator network changes, or those caused by other nearby Cel-Fi devices or boosters.

Benefit to Operators

Mode Selectable : Push button, or use the WAVE app, selection between 3G, 4G or AUTO.

Reduced Churn : Fewer dropped calls and higher data rates help ensure customer satisfaction and retention.

Higher Data Service Usage : By supporting advanced multi-carrier features, the third generation Cel-Fi system ensures that customers can maximise their data rates.

Decreased Operational Cost : Lowers cost of indoor coverage and increases capacity of WCDMA and LTE networks.

Network Safe : Cel-Fi's embedded System-On-a-Chip technology eliminates interference common to lower-performing boosters, and provides real-time automatic end-to-end gain control, guaranteeing it will protect and complement the existing macro network's capabilities.

Operator Specific : Cel-Fi's processor securely manages the performance improvement only for the Operator who authorised and deployed the system.

Self Adjusting : Cel-Fi automatically selects the correct frequencies for use based on channel frequency and Operator PLMNID codes, thereby eliminating costly Operator provisioning requirements.

Multi Technology Support : The Cel-Fi GO supports either WCDMA or LTE across three different cellular bands, and selects the best candidate band and technology to (in AUTO mode).

Multi Carrier Support : The Cel-Fi GO system simultaneously supports multiple carriers with bandwidths anywhere from 5 to 20 MHz with a total relay bandwidth of 20 MHz.

SPECIFICATIONS

MODEL VERSION
- Mobile: GO unit + 12V CLA adapter (G31-3/5/28M)

CONFIGURATION
- Band 3/5/28 - 3-front end receivers that relay a single band.

POWER OPTIONS
- 9.6 to 28.8 VDC via external supply
- External supply: 100 to 240 VAC, 47 − 63Hz
- Power consumption less than 15W per unit

SYSTEM GAIN
- Mobile Unit: Up to 70dB

RADIO PERFORMANCE
- The 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

PHYSICAL
- Dimensions: 255(W) x 87(D) x 28(H) mm
- Weight: 600g
- IP54 Rated

ANTENNA REQUIREMENTS
- SMA Female Donor Antenna Connector (50 ohm)
- SMA Female Service Antenna Connector (50 ohm)
- VSWR <2:1
- Antennas should support appropriate device band frequencies.

ENVIRONMENTAL
- Operating temperature: 0° to 65°C
- Storage temperature: -25° to 65°C
- Relative humidity: 0 to 95%, noncondensing

STANDARDS
- CE
- RoHS II 2011/65/EU
- RCM (Australia)
- R&TTE 1999/5/EC
- R&TTE 1999/519/EC
- EN 60950-1:2006+ A11/A12/A1/A2
- EN 301 489-23 v1.5.1
- EN 301 489-17 v2.2.1
- EN 301 908-1 v5.2.1
- EN 301 908-11 v5.2.1
- EN 301 908-15 v5.2.1
- EN 62311 (2008)

- 3GPP TS 25.143 Rel.10
- 3GPP TS 36.143 Rel.10
- Bluetooth LE Certification BQB

Bluetooth™

COMPLIANCE CONTACT
- In the event of regulatory compliance issue, please contact Nextivity Inc. directly. Contact information is available at www.nextivityinc.com

PATENTS
- This product is covered by Nextivity, Inc., US patents and patents pending. Please refer to Cel-Fi.com for details

Note: Certifications are regional; not all products need or have the same certifications. Please check the specific model number to determine exactly which certifications it has.

Why Rising Connection is using equipment designed and built by Nextivity?

- Designed and built for the most varied conditions in the world including Australian environment.
- Worldwide proven and respected Industry Experience including in the Australian Telecommunications Industry.
- Expertise support and customer focused staff.
- Up to date with technology and bringing to market the best quality technology available for Reliable Commercial use

This demonstrates to Rising Connection that you will have the Quality, Reliability and Product Support.