



## Smart Signal Booster



## CEL-FI SOLO

### Smart Mobile Coverage Solution for Commercial Properties and Large Homes

The Cel-Fi SOLO Smart Signal Booster is designed to solve mobile coverage problems for voice and data. With up to 100dB of gain, it is the most powerful carrier-grade solution available. The Cel-Fi SOLO covers up to 1,500 m<sup>2</sup> of indoor space per system and is quick and easy to install. It includes a whip antenna and patch antenna which can be used to get the system up and running in minutes

If you need a more powerful donor antenna you can connect the Cel-Fi SOLO to an outdoor wideband directional antenna and if you need to get coverage to more areas of your building, you can use splitters and connect to multiple server antennas

- Licence exempt and freely deployable in the UK and Ireland for Voice and Data
- Quick and easy installation

- 100dB max signal gain with typical coverage area 15,000 sq.ft 1,500m
- Available for O2, EE, Three, Vodafone and all Mobile Virtual Network Operators
- Can be switched between networks
- Boosts both 3G and 4G signal coverage simultaneously
- Remote monitoring and management with the Cel-Fi WAVE Platform
- Intelliboost Chipset - Unconditionally Network Safe
- Easily switch between boosting Vodafone, O2, EE or Three signal using the WAVE App
- Licence exempt under UK law and fully meets the requirements of Ofcom SI 2018/399
- Licence exempt under Irish law and fully meets the requirements of ComReg S.I. No. 283 of 2018

# CEL-FI SOLO Features

## Cel-Fi WAVE Portal

- A dashboard overview of all your systems
- Data and performance metrics sent by the Wave App to the Wave Portal
- Software update management
- Users and group management

## Network Safe

Self-organising edge intelligence ensures that Cel-Fi SOLO 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 SOLO are 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 and 4G 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 and 4G connectivity. The IntelliBoost™ processor ensures that Cel-Fi products never negatively impact the mobile network while providing maximum coverage.

## Environmental

Operating temperature: 0° to 40°C  
Convection Cooling  
Relative humidity: 0% to 95%, noncondensing  
RoHS (European and China compliant)  
CE  
IP Rating: 20

## Installation

Wall-mounting hardware included

## Antenna Ports

*(Donor and Server)*

Impedance: 50 Ohms  
Port-to-port Isolation: >110dB  
Connector: SMA FEMALE  
Return Loss: <-8dB

## Dimensions

Height 163mm. Width 158mm. Length 80mm. Weight 1.8kg

## Compliance

*(check individual product version for specific regional compliance)*

3GPP TS 25.143  
3GPP TS 36.143 Bluetooth BQB  
CE  
ACMA (Australia) R-NZ (New Zealand)

## System Management

*(software)*

Via Cel-Fi WAVE cloud portal  
Cel-Fi WAVE Portal capability:  
• Status (list and map) • Settings  
• Commissioning • Reporting  
• Diagnostics • Alarms & Notifications

## Antennas included



Cel-Fi Patch Antenna



Cel-Fi Whip Antenna