



Smart Signal Booster



CEL-FI
GO X

Cel-Fi GO X for Buildings and Remote Places. Built for indoor / outdoor tough to reach spaces.

This 100 dB gain signal booster is ideal for use in commercial properties, government buildings, agricultural settings, small manufacturing operations, rural areas, businesses, and large homes.

- Licence exempt and freely deployable in the UK and Ireland for Voice and Data
- 100dB max signal gain with typical coverage area 15,000 sq.ft./1,400m²
- Supports one network per device, can be switched between networks
- Boosts both 3G and 4G signal coverage for O2, EE, Three or Vodafone, and all hosted MVNO under the Network of your choice
- Indoor/outdoor IP66 rated
- Intelliboost Chipset – Unconditionally Network Safe
- Easily switch between boosting Vodafone, O2, EE or Three signal using the WAVE App
- Cel-Fi GO X is CE and FCC approved
- 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 GO X 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 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 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.

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

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

Antenna Ports

(Donor and Server)

699 – 2180 Mhz
Impedance: 50 Ohm
Return Loss: 8 dB
Output Protection

Physical Specifications

GO X
96.5x43.25x272.5mm

DC Power Plug and Jack

4 rated power plugs and jack

Compliance

(check individual product version for specific regional compliance)

3GPP T S 25.143 Rel.10
3GPP T S 36.143 Rel.10
FCC Part 15, 20, 22, 24, 27
IC (Industrie Canada)
Bluetooth BQB
CE

System Management

(software)

Supports Cel-Fi WAVE cloud portal
Cel-Fi WAVE Portal capability:

- Status (list and map)
- Commissioning
- Diagnostics
- Software Updates
- Settings
- Reporting
- Alarms & Notifications

Antenna options



Wideband Directional Antenna



Wideband Indoor Omni Antenna



Wideband Panel Antenna



In-Building Mobile Coverage Solution



CEL-FI QUATRA 1000

The most advanced technology for improving indoor mobile network coverage

- Scalable Active DAS Hybrid for Middleprise Buildings — perfect for office spaces, warehouses and parking structures
- Improves mobile signal up to 50,000 sq. ft. per system; scalable to larger areas by deploying multiple systems
- Licence exempt and freely deployable in the UK and Ireland for Voice and Data
- Up to 100dB max system gain off-air
- All digital, RF and Power over Ethernet (PoE)
- Supports 4G MIMO for blisteringly fast downloads
- AntennaBoost intelligent antenna aiming optimises signal quality
- IntelliBoost™ 6 Core Processor delivers high speeds with low power consumption
- Remote monitoring and management with the Cel-Fi WAVE Platform
- Lowest cost per sq. ft.
- 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 QUATRA 1000

Features

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Power

54 VDC @ 2.22 Amp via external supply (51.3 to 56.7 VDC tolerance)
External supply: 100 to 240 VAC, 47 – 63 Hz
Power consumption less than 120W max
Network Unit provides power to Coverage Units over Cat 5e (PoE)

Environmental

Operating temperature: 0° to 40°C
Storage temperature: -25° to 60°C
Convection Cooling
Relative humidity: 0% to 95%, noncondensing
RoHS II 2011/65/EU
IP20

Installation

Mounting hardware included

Radio Performance

BAND	DOWNLINK	UPLINK	BOOST
1	2110-2170 MHz	1920-1980 MHz	Up to 20 MHz contiguous boost BW, HSPA or LTE SISO
3	1805-1880 MHz	1710-1785 MHz	Up to 20 MHz contiguous boost BW, HSPA or LTE MIMO
8	925-960 MHz	880-915 MHz	Up to 15 MHz contiguous boost BW, LTE SISO
20	791-821 MHz	832-862 MHz	Up to 20 MHz contiguous boost BW, LTE MIMO

Physical Specifications

Network Unit: 250x188x55mm, 1.2 kg (40.8 oz.)
Coverage Unit: 188x188x50mm, 0.83 kg (29.2 oz.)

Compliance

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

3GPP TS 25.143 Rel.10
3GPP TS 25.143 Rel.10
CE
FCC Part 15, 20, 22, 24, 27
ISED Canada
UL 62368-1/CSA C27.2
Bluetooth BQB
RCM