



## 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

### 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

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