



In-Building Mobile Signal Solution



CEL-FI™
QUATRA

The most advanced technology for improving indoor mobile network coverage in large office spaces, warehouses and distribution centres.

Cel-Fi QUATRA is the most advanced technology solution for improving indoor mobile network coverage. This scalable in-building mobile system delivers high quality signal in venues up to 200,000 ft² and beyond. It is a cost-effective and easy-to-deploy solution that combines the best of active DAS and Smart Booster technologies that have been widely adopted by carriers around the world, setting a new standard in Signal Boosting capabilities.

• Licence exempt and fully meets Ofcom requirements SI 2018/399 (UK) and ComReg S.I.No.283 of 2018 (Ireland)

- Lowest cost per ft²
- 100 dB max signal gain in up to 50,000 ft² / 4,750m² per Quatra system, scalable to larger areas by combining multiple systems
- Carrier approved, boosts 3G and 4G simultaneously
- All digital, RF and Power over Ethernet (PoE) system with cat5/6 structured cabling
- Can be re-programmed to boost a different network without the need to replace hardware
- Smart Signal Booster with IntelliBoost® Chipset - Unconditionally Network Safe
- Remote monitoring and management with the Cel-Fi WAVE app

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 QUATRA 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 QUATRA are unconditionally network safe, and enables more simultaneous calls and higher data speeds.



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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 macro 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)

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