Specifications

	External supply Power consum	r: 100 to 240 VAC option less than 1					
Environmental	Storage tempe Convection Co	rature: -25° to 60° oling ity: 0% to 95%, nc					
Installation	Mounting hardware included NU may be wall mounted (solid or hollow) CU may be wall or ceiling mounted 1 NU supports 1 to 4 CUs iBwave supported						
Radio Performance (check product version for specific band support)	DL Maximum N DL Maximum N UL Maximum UL p Maximum UL p Maximum UL p Maximum DL p Maximum DL p	NU in-band donor NU survival donor CU donor level -20 power 22dBm bar power 20dBm bar power 10dBm per power 10dBm per	level 30dBm)dBm.	20	dwidth pe	r channel)	
Physical Specifications	Network UnitCoverage Unit264 x 185 x 62mm225 x 185 x 37mm1.2 kg (40.8 oz.)0.83 kg (29.2 oz.)						
Connections	100m max CU 200m max CU PoE IEEE 802.3 RJ45 LAN mar RJ45 LAN mar	Bat hagement port (10 hagement output			or Cat6)		
Compliance (check individual product version for specific regional compliance)	3GPP TS 25.14 3GPP TS 36.14 CE FCC Part 15, 20 ISED Canada UL 62368-1/CS Bluetooth BQB	3 Rel.10), 22, 24, 27					
System Management (software)							
	Product Name QUATRA 1000 QUATRA 1000 QUATRA 1000 QUATRA 1000 QUATRA 1000 QUATRA 2000	Model Number Q34-2/4/5/12 Q34-2/4/5/13 Q34-1/3/8/20 Q34-1/3/7/8 Q34-1/7/8/20 Q34-3/5/7/28 Q34-4/5/12/13/25	Frequency (MHz) 1900 / 1700 / 850 / 700a 1900 / 1700 / 850 / 700c 2100 / 1800 / 900 / 800 2100 / 1800 / 2600 / 900 2100 / 2600 / 900 / 800 1800/850/2600/700 APT 1700/850/700a/700c/1900	Bands Supported 2, 4, 5, 12 2, 4, 5, 13 1, 3, 8, 20 1, 3, 7, 8 1, 7, 8, 20 3, 5, 7, 28 4, 9, 12, 13, 25	MIMO Support 4, 12 4, 13 3, 20 3, 7 7, 20 3, 28 n/a	Crossover Support 2, 5 2, 5 1, 8 1, 8 1, 8 5, 7 n/a	



CEL-FI QUATRA



U.S. Headquarters: Nextivity Inc.

16550 West Bernardo Drive, Bldg 5, Suite 550, San Diego, CA 92127, USA +1 858.485.9442 tel • +1 858.485.9445 fax • www.cel-fi.com

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In-Building Cellular Solution



Scalable Coverage Area: Up to 50k ft²/ 5k m² per Network Unit

Network Unit

-



CEL-FI QUATRA

Introduction

Spotty cellular coverage, poor voice guality, dropped calls, and dead zones continue to plague employees and visitors in middleprise buildings. Cel-Fi QUATRA is an Active DAS Hybrid that solves this problem. It is an affordable, all-digital solution. It provides uniform, high quality cellular signal throughout building, scalable to the size needed. Cel-FI QUATRA is carrier approved and guaranteed network safe.

Unlike older analog boosters and passive DAS technology, Cel-Fi QUATRA delivers a cellular signal that is up to 1000x stronger, utilizing CAT 5e cabling for RF and Power over Ethernet, with no signal attenuation right to the perimeter of the building. QUATRA can be installed in just days (compared to months typical of other solutions), and at a price point that meets the middleprise budget.

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Maximum Gain | Industry Leading Off-air or Supercell **IOOdB** for Voice and Data

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Best Performance: Active DAS Hybrid with IntelliBoost® Chipset Smart Technology

Cellular Coverage: Single or Multi-Carrier Middleprise Solution

Ease of Setup: Built for Installers with RFoE / PoE and Maximized by AntennaBoost"

Cel-Fi WAVE: Remote Monitoring and Management Platform



Supercell Configuration

Coverage

Unit

A Supercell is comprised of a Cel-Fi QUATRA system connected to a small cell. Multiple Cel-Fi QUATRA systems can be connected to a single small cell, or multiple small cells, to form a coordinated Supercell. A Supercell with Cel-Fi OUATRA is more efficient than multiple small cells, and the CUs of a Cel-Fi QUATRA system connected to a Supercell do not interfere with one another.

Coverage

Unit

B **Off Air Configuration**

Network

Unit

Small Cell Interface

Small Cell

Supercell

CONFIGURATION

Cel-Fi QUATRA Range

Extender is a Power

over Ethernet (PoE)

device that extends

between the NU and

the CU by 200 meters.

he maximum distance

Cel-Fi QUATRA can be installed off-air, using either a MIMO panel or omni donor antenna to provide high-quality in-building wireless connectivity. Cel-Fi QUATRA can be deployed by installers or IT personnel with Cat5e skills (no RF engineering skills needed).

MIMO Panel Antenna

Off Air

CONFIGURATION

or

Cel-Fi QUATRA is a scalable solution that utilizes one or multiple NUs, depending on the environment and size of the space, with up to four distributed CUs connected to each NU.

SOLUTION COMPONENTS



Cel-Fi MIMO Panel Antenna connects to any Cel-Fi QUATRA MIMO-enabled NU or CU with QMA (quick connect) cables.





Cel-Fi QUATRA Small Cell Interface (SCIF) simplifies RF connections and cable management between a small cell and NUs. It includes a main unit and all cables for a single NU

The **Building Blocks**

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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.



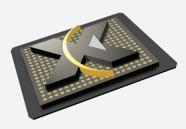
Network Safe

Self-organizing edge intelligence ensures that Cel-Fi QUATRA does 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 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 optimize the indoor transmission and reception of 3G and 4G/LTE



wireless signals. With advanced filtering, equalization and echo-cancellation techniques, Nextivity has developed an architecture which delivers unprecedented in-building data rates and pervasive 3G and 4G/LTE connectivity. The IntelliBoost processor ensures that Cel-Fi products never negatively impact the macro network while providing maximum coverage.

Cel-Fi Omni Donor Antenna has N-type Female connectors, and is the ideal donor signal source for the QUATRA 2000.



Cel-Fi Mount is an indoor/ outdoor mount designed to secure a donor signal antenna for Cel-Fi QUATRA and work with the Cel-Fi WAVE Antenna Positioning Application.