

CEL-FI[™] QUATRA 4000/4000i

Enterprise Cellular Coverage



Performance Leadership



Ease of Install



Leaders in Value



Fast Setup



Carrier Grade Approved

Multi-Carrier Hybrid Active DAS for 3G/4G/5G Voice and Data

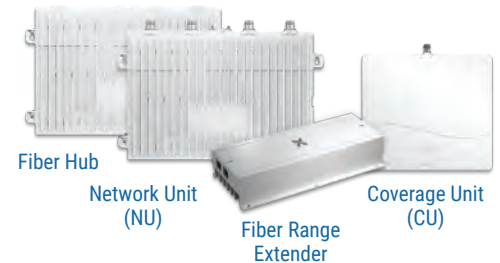
Spotty cellular coverage, poor voice quality, dropped calls, and dead zones continue to plague employees and visitors in middleprise buildings. To solve that problem, Cel-Fi QUATRA 4000 is an affordable, all-digital active DAS hybrid solution that provides uniform, high quality cellular signal throughout any building. This industry-leading system is also 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. The system utilizes Cat5e cabling for RF and Power over Ethernet, with no signal attenuation to the Coverage Unit (CU) embedded service antennas. In addition to being the most powerful solution on the market, QUATRA is cost-effective and designed to be installed within days (compared to months typical of other solutions).

Perfect for creating the ideal system, Cel-Fi QUATRA 4000 is scalable to fit buildings of all sizes. Depending on the environment, size, and space, the system utilizes one or multiple Network Units (NUs), with each one providing power and distributing signal to up to six CUs. Together, the NUs and CUs support four operators.

IntelliBoost™ Chipset

The Nextivity IntelliBoost™ baseband processor is the first six-core processor designed specifically to optimize the indoor transmission and reception of 3G/4G/5G 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/4G/5G connectivity. The IntelliBoost™ processor ensures that Cel-Fi products never negatively impact the macro network while providing maximum coverage.



Highest Coverage Gain:
Up to 100 dB Max Gain for 3G/4G/5G Voice and Data

All Digital:
Cat5e PoE/RFoE Solution

Scalable:
Up to 125,000 ft² Coverage per Network Unit

Multi Mode:
Off-Air or SuperCell Mode with Fiber Expansion

Network Safe:
Carrier-Approved with No Noise Guaranty

Cel-Fi WAVE Platform:
Setup, Remote Monitoring, and Management

Cel-Fi QUATRA is designed to be scalable for installers.

CEL-FI WAVE COMPATIBILITY

Providing control and optimization insight, the Cel-Fi WAVE Portal is a web-based platform that enables an operator or integrator to remotely monitor equipment and system KPI's, such as channel configurations, RSRP, RSRQ, SINR, and system gains.

NETWORK SAFE

All Cel-Fi systems employ self-organizing edge intelligence to constantly monitor power levels and donor-to-server antenna RF feedback with active echo cancellation. This automatically ensures maximum coverage power without interfering with operator networks and other local radio systems.

OFF-AIR CONFIGURATION

QUATRA systems are capable of retransmitting donor signals from outdoor directional antennas to indoor locations. Unlike typical BDA amplifiers, each operator channel is individually processed and power controlled to achieve full coverage power. This eliminates channel-to-channel coverage power variations due to differences in power of donor signals.

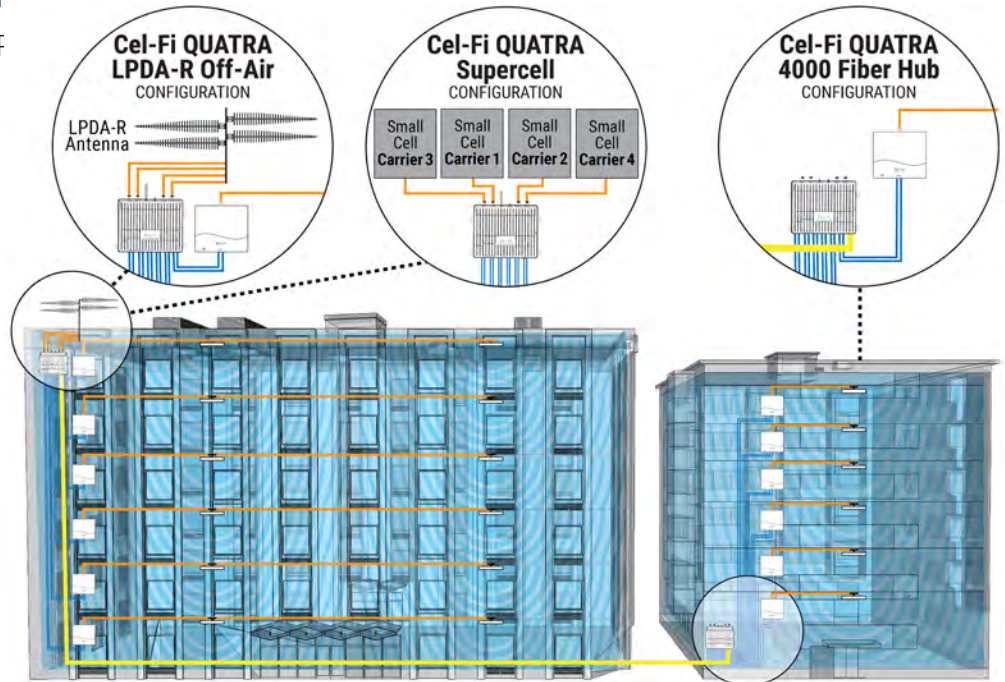
SUPERCELL® CONFIGURATION

A Supercell is comprised of a Cel-Fi QUATRA connected to a single small cell, or multiple small cells, to form a Supercell. A Supercell with Cel-Fi QUATRA 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.

FIBER EXTENSION

Expanding the capabilities of Cel-Fi QUATRA systems, the Cel-Fi QUATRA Fiber Range Extender (QFRE) increases the distance between the Network Unit and Coverage Unit up to 2.0 km (1.24 miles). This solution is ideal for high-rise structures, long distances, or multi-building facilities.


QUATRA 4000 is also compatible with the Cel-Fi QUATRA 4000 Fiber HUB, which offers the same distance flexibility as the QFRE and allows a single NU to support up to 12 CUs.




MODEL NUMBERS:		
QUATRA 4000 (Part 20) NU: Q44-1234CNU CU: Q41-5ECU Bands: 2/4/5/12/13/25	QUATRA 4000i (Part 90) NU: I44-1234CNU CU: I41-5ECU Bands: 2/4/5/12/13/25/26/30/41/71	QUATRA 4000/4000i Fiber Hub Unit: Q40-1234FNU

ASSESSORIES:

Cel-Fi QUATRA 4000 Range Extender




Cel-Fi QUATRA Fiber Range Extender




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ANTENNAS:


Cel-Fi Blade Antenna (Included)



Cel-Fi LPDA-R High-Gain Directional Antenna



Cel-Fi Low-Profile Antenna



SOFTWARE:

Cel-Fi WAVE Management Portal



cel-fi.com/software