CEL-FI™
QUATRA 1000 FN

Enterprise
FirstNet
Coverage

CEL-FI.
by NEXTIVITY

| Performance Leadership | Ease of Install | Leaders in Value | Fast Set Up | Carrier Grade Approved | FIRSTNET. Built with AT&T |

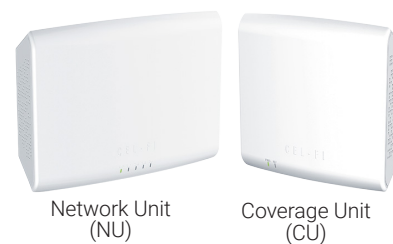## FirstNet Active DAS Hybrid for 5G/4G/3G Voice and Data

Ensuring fire, police, and medical personnel are always connected through dependable cellular reception for emergency communications, the Cel-Fi QUATRA 1000 FN in-building enterprise solution delivers reliable FirstNet cellular coverage. In addition to being an affordable, all-digital active DAS hybrid solution that provides uniform, high-quality cellular signal throughout any building, this industry-leading system is carrier approved and guaranteed network safe.

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 1000 FN 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 four CUs. Together, the NUs and CUs provide consistent coverage for AT&T and FirstNet-enabled devices.

IntelliBoost® Chipset
The Nextivity IntelliBoost® baseband processor is the first six-core processor designed specifically to optimize the indoor transmission and reception of 5G/4G/3G wireless signals. With advanced filtering, equalization, and echo-cancellation techniques, Nextivity has developed an architecture that delivers unprecedented in-building data rates and pervasive 5G/4G/3G connectivity. The IntelliBoost processor ensures that Cel-Fi products never negatively impact the macro network while providing maximum coverage.

Network Unit (NU)   Coverage Unit (CU)

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

All Digital:
Cat5e PoE/RFoE Solution

Scalable:
Up to 50,000 ft² Coverage per Network Unit

Boost Bands:
2, 4, 12 and 14 for FirstNet

Network Safe:
Carrier Approved with No Noise Guarantee

Cel-Fi WAVE Platform:
Set Up, Remote Monitoring, and Management

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.
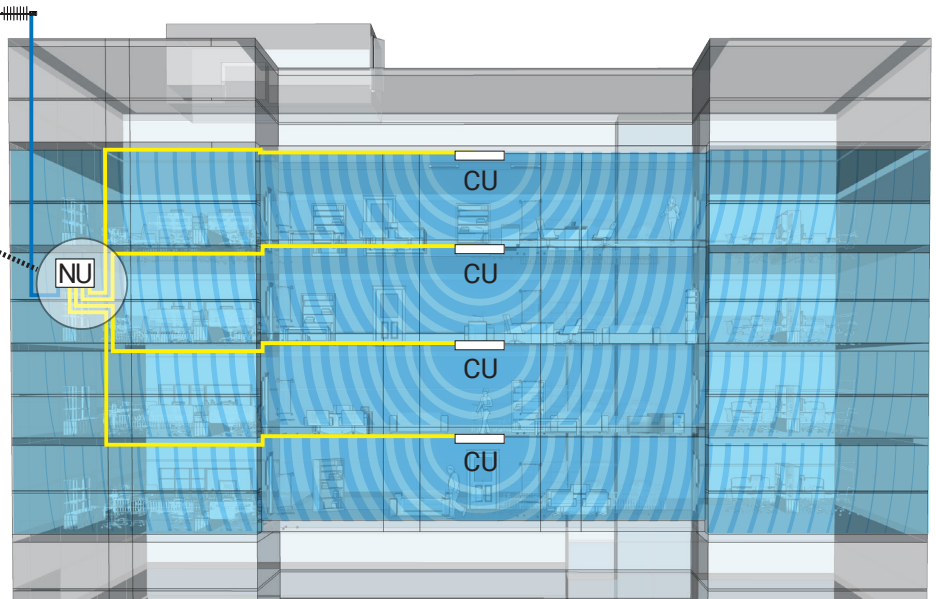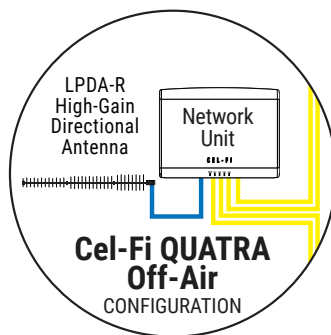
NETWORK SAFE

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

Cel-Fi 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.

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.

LPDA-R High-Gain Directional Antenna — Network Unit

Cel-Fi QUATRA Off-Air CONFIGURATION

Model Numbers	Bands Supported
NU: Q34 FirstNet	
NU: Q34-2/12/14/66NU	2/4/12/14
CU: Q34 FirstNet	
CU: Q34-2/12/14/66CU	2/4/12/14

ACCESSORIES:		ANTENNAS:		SOFTWARE:
Cel-Fi QUATRA 1000/2000 Range Extender	**Cel-Fi QUATRA Fiber Range Extender**	**Cel-Fi LPDA-R High-Gain Directional Antenna**	**Cel-Fi Indoor Omni Passive Antenna**	**Cel-FI WAVE Management Portal**

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