

CEL-FI™ QUATRA 1000 FN

Enterprise
FirstNet
Coverage



Performance
Leadership



Ease of
Install



Leaders
in Value



Fast
Setup



Carrier Grade
Approved



FIRSTNET.
Built with AT&T

FirstNet Hybrid Active DAS for 3G/4G/5G 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.

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 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 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.



Network Unit
(NU)



Coverage Unit
(CU)



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 50,000 ft² Coverage per
Network Unit



Boost Bands:

2, 4, 12 and 14 for FirstNet



Network Safe:

Carrier-Approved
with No Noise Guaranty



Cel-Fi WAVE Platform:

Setup, 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

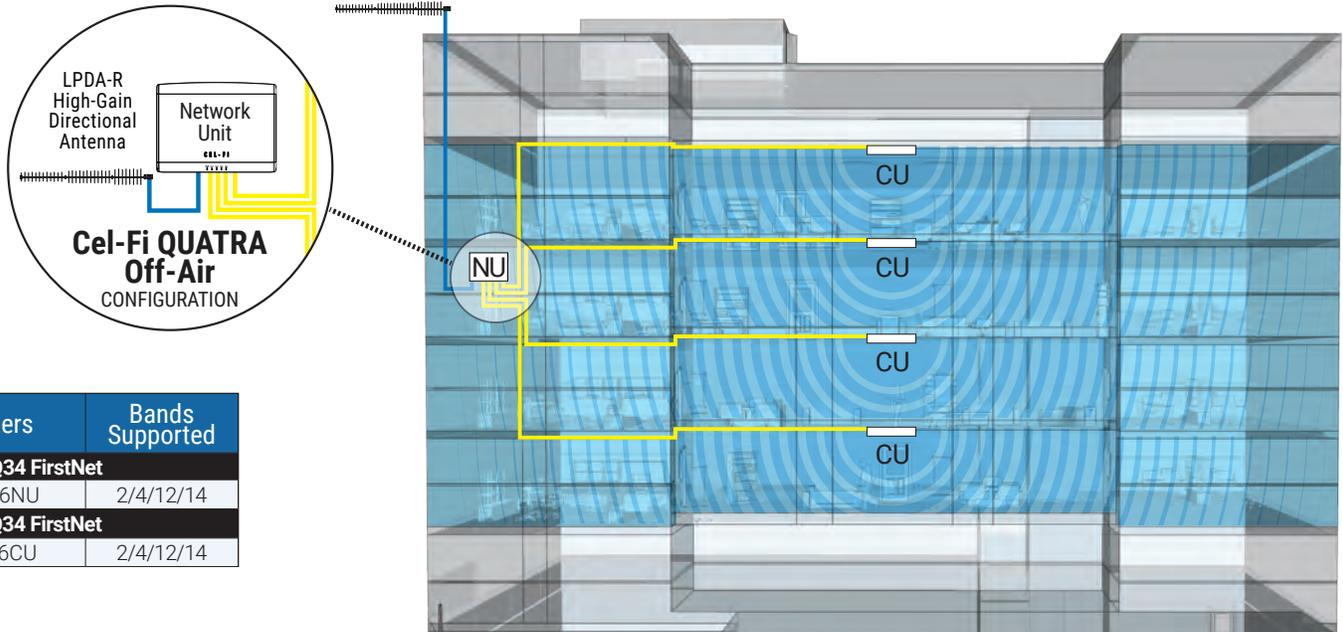
All Cel-Fi systems employ self-organizing edge intelligence to constantly monitor power levels and donor-to-server antenna RF feedback with active echo cancellation. This automatically ensures maximum coverage power without interfering with operator networks and other local radio systems.

OFF-AIR CONFIGURATION

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 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.



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

ASSESSORIES:

Cel-Fi QUATRA 1000/2000 Range Extender

Cel-Fi QUATRA Fiber Range Extender

ANTENNAS:

Cel-Fi LPDA-R High-Gain Directional Antenna

Cel-Fi Indoor Omni Passive Antenna

SOFTWARE:

Cel-Fi WAVE Management Portal

cel-fi.com/software

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