# CEL-FI™ QUATRA RED

## ERCES Public Safety DAS

CEL-FI. by NEXTIVITY



**Network Unit**
CLASS A: F42-67ENU
CLASS B: F42-67ENUB

**Coverage Unit**
CLASS A: F41-8XCU
CLASS B: F41-8XCUB

**Management Unit**
F40-0E

| Performance Leadership | Ease of Install | End-to-End Monitoring | Talk-Out & Grid Testing | No Noise Guarantee |
|---|---|---|---|---|

## Public Safety DAS 1 to 6W Class A or B 700/800 MHz LMR with FirstNet

**Best Performance:** Unparalleled Talk-In and Talk-Out Due to Real-Time, Slot-to-Slot Gain Control
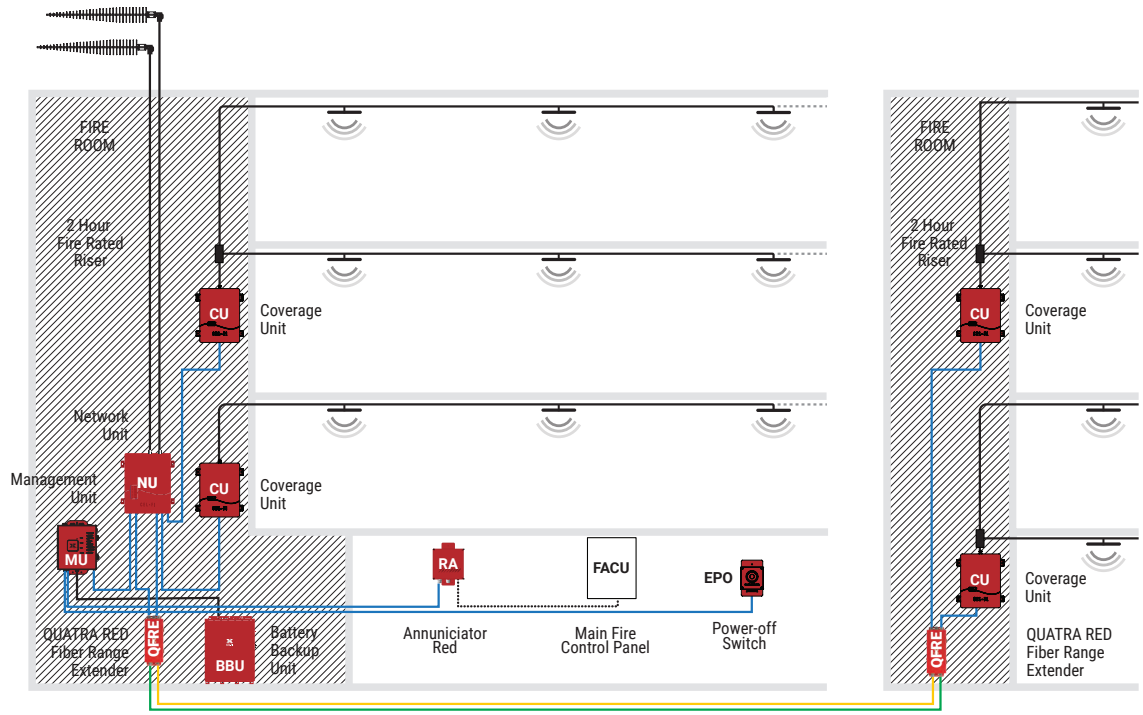
**Scalable Coverage:** Up to 1.9M ft²

**Open Platform:** Compatibility with aThird-Party Public Safety Components

**Cel-Fi WAVE:** Easy Set Up and Monitoring with Cel-Fi WAVE PRO App and Cel-Fi WAVE Portal



LEGEND: —— 1/2 Inch Coax Cable    —— Cat5e Cable    ····· Alarm Cable    —— Optical Fiber    —— Power Cable

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## Optional Cel-Fi QUATRA RED Components

| QUATRA RED Battery Backup Unit (BBU) *F43-00* | QUATRA RED Fiber Range Extender (FRE) *K660-001* | RED Remote Annunciator Panel *F42-10R-100* | RED Emergency Power-Off Switch *F42-10E-100* | RED Active Server Antenna *A33-10A-100* |
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## Key Features:

- Automatic Uplink & Downlink Gain Setting During Commissioning Phase
- Industry-First Uplink Test for Talk-Out Guarantee Using Consumer Two-Way Radios
- Built-in Grid Test Functionality via Cel-Fi WAVE PRO and Cel-Fi COMPASS
- Built-in End-to-End Remote System Monitoring and Management via Cel-Fi WAVE Portal
- IntelliBoost Chipset Delivers Unparalleled Real-Time Talk-in & Talk-Out Performance
- Antenna Monitoring

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# Advancing ERCES Public Safety Solutions

## No Noise Guarantee

By monitoring environmental changes and performing automatic adjustments, Cel-Fi ERCES solutions ensure emergency personnel stay connected in any situation by delivering industry-leading performance with a no noise guarantee.

## Automatic Setting of Uplink Transmitted Power

Cel-Fi ERCES solutions simplify the optimization of uplink (UL) gain for emergency communication systems by eliminating the need for additional equipment or guessing the calculations. The system calculates path loss automatically, allowing for different values according to network requirements and the option to setup a target range.

## Automatic Calculation and Setting of Isolation & Downlink Gain

While isolation is calculated in real-time and automatically set at 20 dB per NFPA 1221, the system allows for different values according to local ordinances. DL gain is automatically adjusted to achieve the required value.

## Detecting Time Delay Interference (TDI)

Because signal from other systems operating in the area can negatively impact signal clarity, Cel-Fi ERCES solutions detect any possible interference and report back via Cel-Fi WAVE Portal alarms.
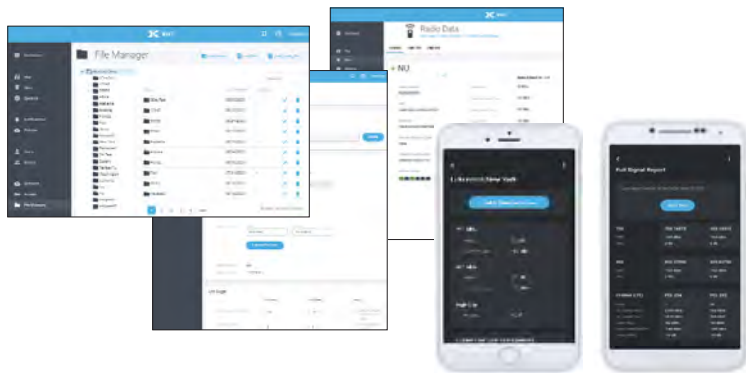
## Industry-First Talk-Out Guarantee

Cel-Fi ERCES solutions' groundbreaking uplink (UL) test allows integrators to easily achieve industry-leading talk-out performance by measuring the signal traveling from the installation site to the remote tower via walkie-talkie. Using Cel-Fi COMPASS and the Cel-Fi WAVE PRO app, installers can test UL gain levels and view real-time analytics to ensure the best-possible signal-to-noise ratio.

## Built-in Grid Test Functionality

With Cel-Fi WAVE PRO and Cel-Fi COMPASS, system integrators can test the downlink (DL) gain for the design planning stage and post-install performance evaluation. Export the Full Signal Report as a .csv, which includes key LMR/Operator Network parameters: Operator, RSSI, RSRP, RSRQ, Frequency, Band, PCI and more. Installers use system operation data to prepare for AHJ walk-through tests.

## Built-in End-to-End Remote System Monitoring and Management via Cel-Fi WAVE Portal

The web-based Cel-Fi WAVE Portal provides installers and authorized users remote monitoring, managing, and control of Cel-Fi ERCES systems from anywhere. In addition to easily adapting Cel-Fi systems to local fire codes, the WAVE Portal allows users to customize notification and policy parameters. The intuitive platform also offers advanced performance metrics on Cel-Fi solution's individual components, including real-time high site-to-server antenna monitoring and donor signal quality reports.