

The Cel-Fi RED Active Server Antenna is an active multi-frequency, omni-directional antenna for ERCES public safety solutions that require monitoring capabilities at the component level. In addition to being designed for hard cap and false ceilings, the Active Server Antenna features an N-type female connector and rugged IP20 grade electronics. The component is ideal for Cel-Fi QUATRA RED and SOLO RED installations, which provide real-time antenna monitoring capabilities through the WAVE Portal.



Cel-Fi QUATRA RED  
Active Server Antenna

## Key Features

- Indoor Low-Profile, Omni-Directional Antenna
- Operational Status Report, including Signal Loss Monitoring via Cel-Fi WAVE Portal
- No Additional Components Needed at the Head-End for Antenna Monitoring
- No Limitations on Distance Between Antennas
- Floating and Hard Ceiling Mounting Options
- Active Antenna Functionality Enabled with Power Inserter (Included)



### Benefits

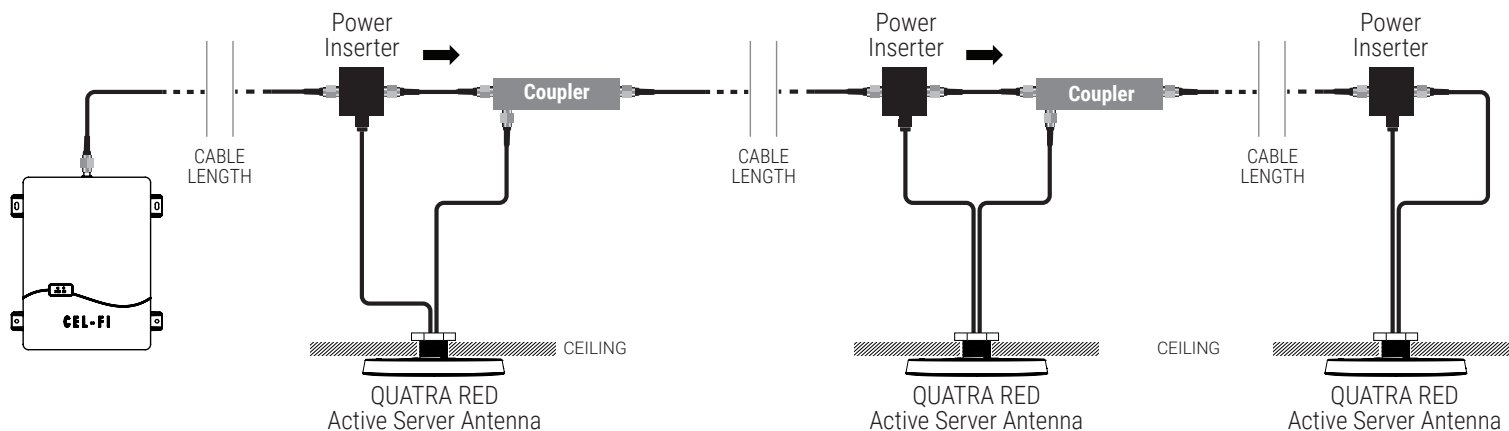
- Mounts directly and easily on any type of ceiling
- Up to 32 antennas can be supported by a single coverage unit
- Antenna health can be monitored remotely
- Reduced visual footprint

### Mechanical Specifications



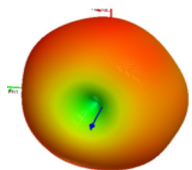
Frequency Bands Supported	UHF 450 MHz / 700 MHz, 800 MHz LMR / 12, 14, 2, 4 LTE
Dimensions (mm)	242 x 53
Impedance (Ohm)	50
Polarization	Horizontal
Radiation pattern	Omni-directional
Connector Type	N – Female
Mounting type	Floating Ceiling / Hard Ceiling
Radome	ASA UV Stable
Color	White
Operating temp (C°)	-20 to 50
Product Ingress Protection	IP20
Max Input Power	33 dBm

### Connection Diagram

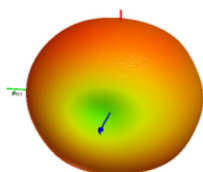


## GAIN

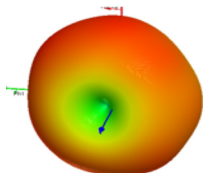
3.3 dB @ 1750 MHz



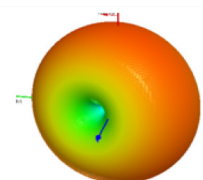
3.8 dB @ 1900 MHz



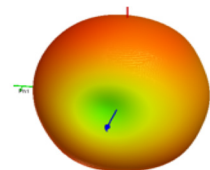
3.8 dB @ 2150 MHz



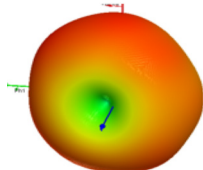
2.2 dB @ 500 MHz



2.5 dB @ 720 MHz

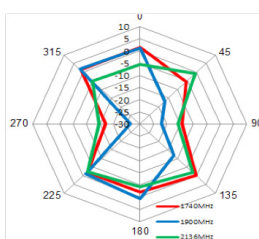
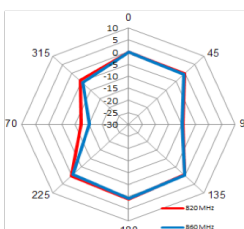
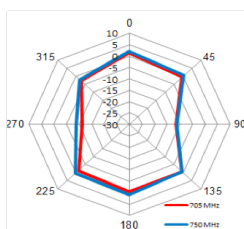
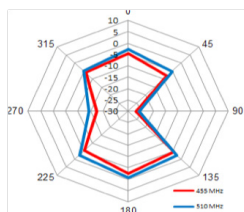


3.3 dB @ 840 MHz

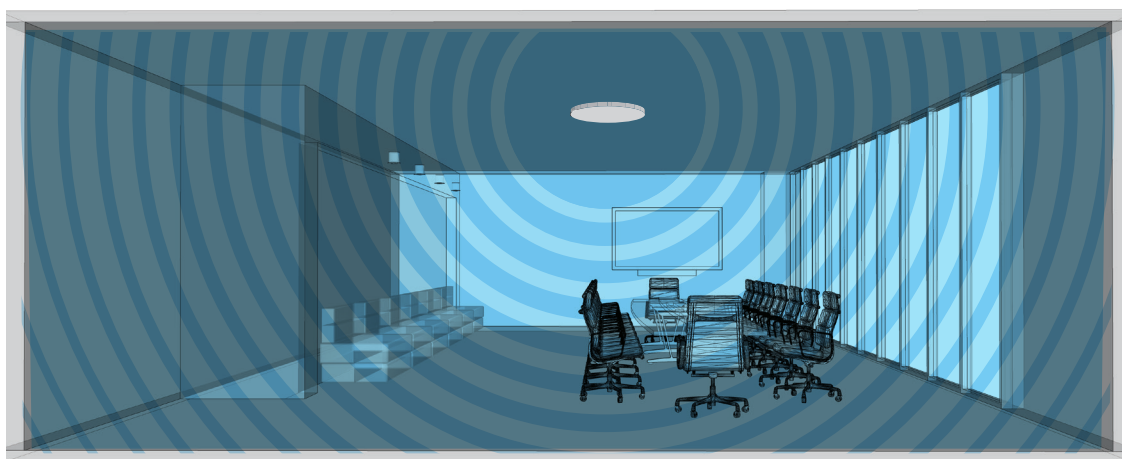
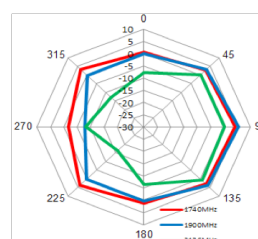
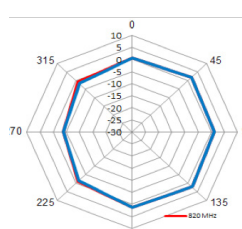
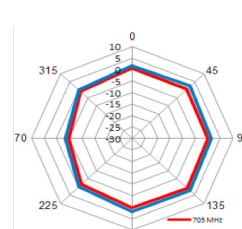
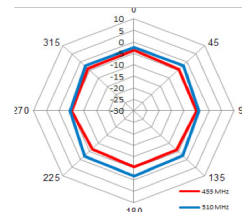


## RADIATION PATTERNS

SIMULATION H-PLANE



SIMULATION V-PLANE



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