

# SHIELD Active Server Antenna

## Smart Antenna for SHIELD ERCES

**MODEL NUMBER:** A33-10A-100

The SHIELD Active Server Antenna is an active multi-frequency, omnidirectional antenna for ERCES 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 SHIELD EXTEND and SHIELD SOLO installations, providing real-time antenna monitoring capabilities through the Nextivity WAVE Portal.



SHIELD Active Server Antenna

### Features and benefits include:

- Indoor low-profile, omnidirectional antenna
- Operational status report, including Signal Loss monitoring via WAVE Portal
- No additional components needed at the head-end for antenna monitoring
- Antenna health can be monitored remotely
- Up to 32 antennas can be supported by a single SHIELD EXTEND Coverage Unit
- No limitations on distance between antennas
- Floating and hard ceiling mounting options
- Active antenna functionality enabled with Power Inserter (included)

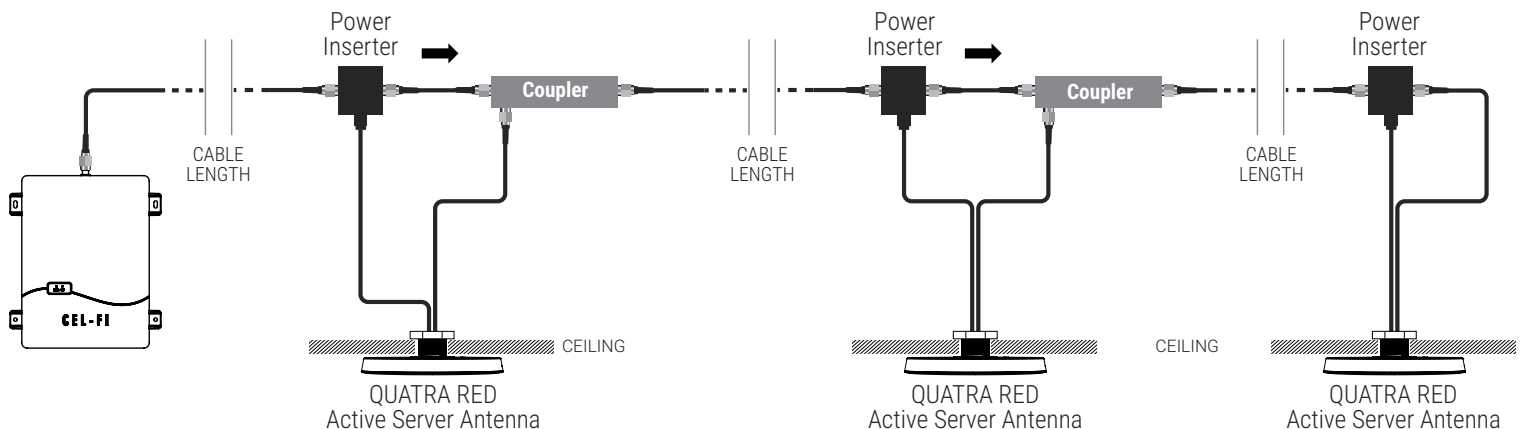


### Specifications

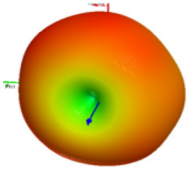
|                            |   |
|----------------------------|---|
| Frequency Bands Supported  | UHF 450 MHz / 700 MHz, 800 MHz LMR / 12, 14, 2, 4 LTE |
| Dimensions (mm)            | 242 x 53  |
| Impedance (Ohm)            | 50  |
| Polarization               | Horizontal  |
| Radiation pattern          | 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  |



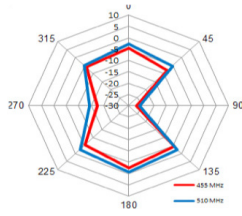
### Connections Diagram



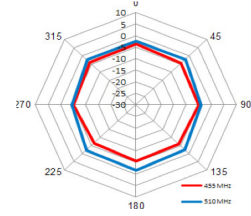
3.3 dB @ 1750 MHz



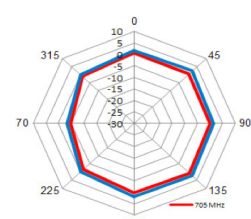
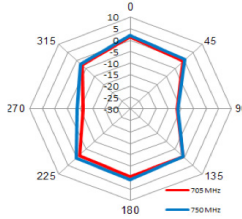
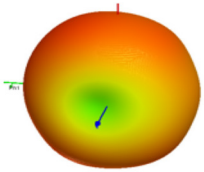
SIMULATION H-PLANE



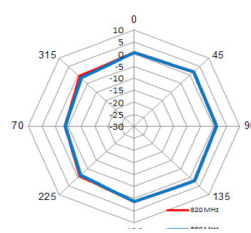
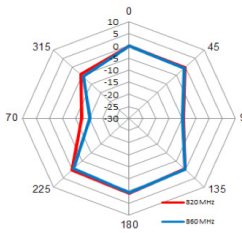
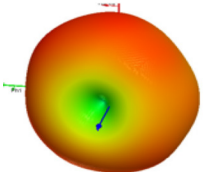
SIMULATION V-PLANE



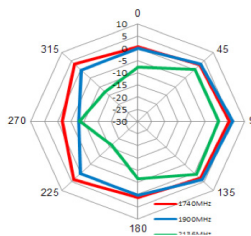
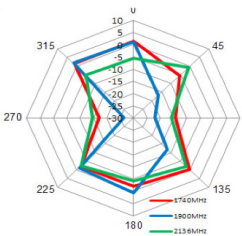
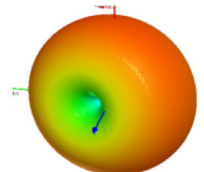
3.8 dB @ 1900 MHz



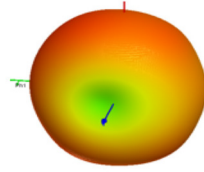
3.8 dB @ 2150 MHz



2.2 dB @ 500 MHz



2.5 dB @ 720 MHz



3.3 dB @ 840 MHz

