

# GUARDIAN



## TQ-222W

### Wide Band In-Building Antenna

## FEATURES

- N-Female connector (50 Ω)
- 3 dBi Max Gain
- 698/960 – 1710/2700 MHz
- Includes mounting hardware
- Connects to booster with Trilogy 1/2 inch conductor air dielectric cable (sold separately)

### Technical Specifications

Frequency	698-960 / 1710 - 2700 MHz
Input Impedance	50 ohm
Antenna Gain	2±1 dBi
VSWR	≤2
Power Rating	10 W
Polarization Type	Vertical
Radiation	Omni-directional
Maximum Power	50 Watt
Connector Type	N-Female
Dimensions	3.4" Height 7.32" Diameter
Operating Temperature	-40°C to +65°C
Color	White
Mount	Ceiling
Beamwidth	H:360° E:85° / H:360° E:54°
Ground Plane	Built-in



Designed to blend seamlessly into any environment, the TQ-222W Antenna™ is a dome ceiling-mount antenna for in-building Public Safety signal boosters.

The wide band indoor antenna transmits and receives signal in a 360-degree pattern and is designed to cover 700MHz and 800MHz Public Safety frequencies.

### Install Guidelines

In addition to the antenna, mounting options are included for installations with or without a crawl space.

Be sure to deploy the antenna in an area central to your desired indoor signal coverage where there are minimal obstacles. Ultimately, the in-building range of this antenna depends on three factors:

1. Physical obstructions
2. Power generated by booster
3. Signal level received by the outdoor antenna

### Ordering Information

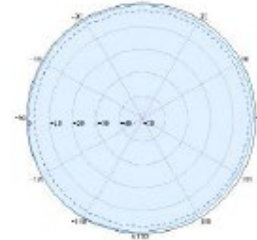
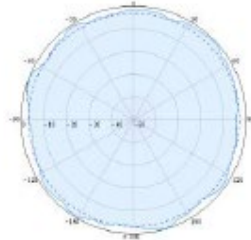
Model	Description	Stock No.
TQ-222W	Wideband Indoor Omni Ceiling-Mount Dome Antenna, 50 ohm, 2/5 dBi 698-960 / 1710 -2700 MHz	3996186

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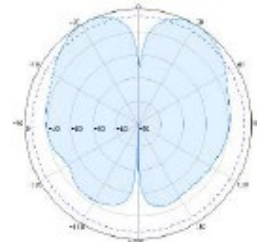
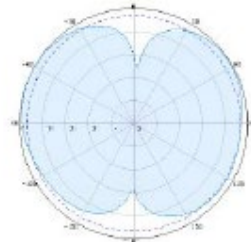


## Radiation Patterns

Horizontal



Vertical



750MHz

2170MHz

### Installation (Crawl Space Accessible)

1. Drill a 20 mm diameter hole in the ceiling. The size should be large enough to allow the antenna's plastic cable base to pass through. The ceiling thickness should be no more than 20 mm.
2. Place antenna cable through hole.
3. From crawl space, screw the fixing nut onto antenna and fasten around the threaded plastic cable base.
4. Connect female antenna connector with Trilogy 1/2 inch conductor air dielectric cable that leads to the booster port marked INSIDE.

