

Features

- UHF Band (450–512 MHz)
- Low VSWR
- Omni-directional radiation pattern
- Ceiling mount for indoor DAS
- Corrosion-resistant and UV-stabilized materials
- Easy installation



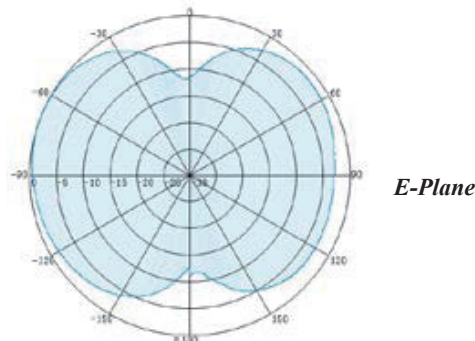
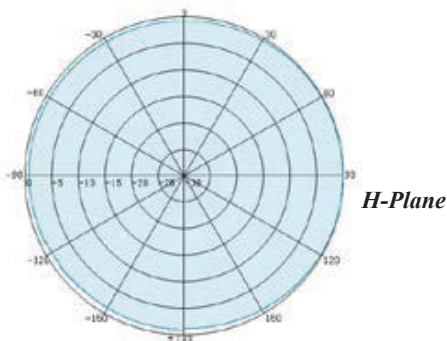
Description

The 9" UHF Indoor Omni Antenna is an omni-directional ceiling-mount antenna designed for indoor Distributed Antenna Systems (DAS). It operates in the UHF band (450–512 MHz) and provides 360° coverage to support signal distribution across enclosed areas. Ideal for in-building projects, this antenna is compact, corrosion-resistant, and easy to install on most ceiling surfaces. Includes mounting hardware.

Technical Specifications

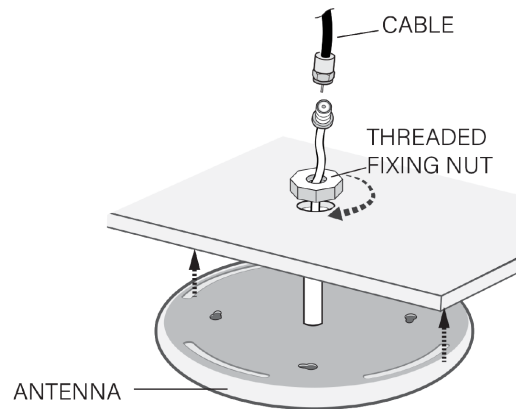
Electrical Specifications	
<i>Frequency(MHz)</i>	450-512
<i>Gain (dBi)</i>	1.0
<i>VSWR</i>	≤2.5:1
<i>Polarization</i>	Vertical
<i>Horizontal Beam width</i>	360°
<i>Vertical Beam width</i>	108°
<i>Input Impedance</i>	50 Ω
<i>Max Input Power</i>	50 W
<i>Light Protection</i>	DC Ground
Mechanical Specifications	
<i>Connector</i>	N Female
<i>Dimensions</i>	280x280x45mm / 11x11x1.8in
<i>Weight (lb)</i>	1.8
<i>Radome Material</i>	ABS(UV Stabilized)
<i>Operating Temperature</i>	-40°C to +65°C
<i>Mounting</i>	Ceiling Mount

Antenna Pattern



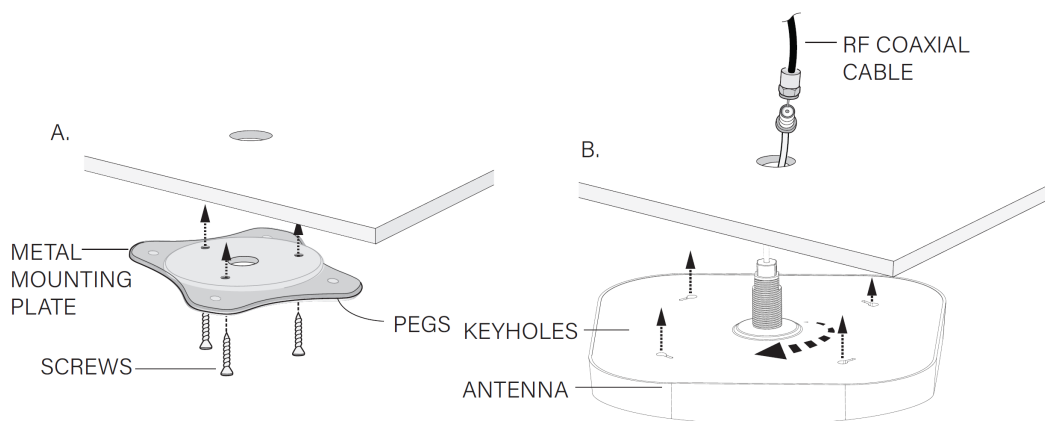
Installation (Crawl Space Accessible)

1. Drill a 20 mm diameter hole in the ceiling. The hole should be large enough to allow the antenna's plastic cable base to pass through.
2. Feed the antenna cable down through the hole from the crawl space.
3. Secure the antenna by screwing the fixing nut onto the threaded plastic cable base from above (within the crawl space), fastening it to the ceiling.
4. Connect the female antenna connector to the RF coaxial cable that leads to the booster port marked "INSIDE."



Installation (Not Crawl Space Accessible)

1. Drill a 20 mm diameter hole in the ceiling. The hole should be large enough to allow the antenna's plastic cable base to pass through.
2. Align and Mark using the included metal mounting plate. Mark the three mounting holes on the ceiling surface.
3. Drill Holes at the marked locations and insert the provided wall anchors.
4. Attach the Mounting Plate to the ceiling by inserting the provided screws through the mounting plate (with interlocking pegs facing downward) and into the anchors.
5. Feed the Antenna Cable through the hole in the ceiling.
6. Mount the Antenna by aligning the keyhole slots on the antenna with the down-facing pegs on the plate. Twist to lock the antenna in place.
7. Connect the Cable by attaching the antenna's N Female connector to the RF coaxial cable leading to the booster port marked "INSIDE."



Ordering Information

Model	Description	Stock No.
OMNI-UHF-1	Wideband Indoor Omni Ceiling-Mount Antenna, Low Profile, 50 ohm, 3 dBi, 450-512 MHz	3996154