POTTER
The Symbol of Protection

535W

In-Building Antenna

Features

- Wide frequency band coverage (698–2700 MHz)
- Low VSWR and high gain performance
- Directional signal pattern for targeted coverage
- Vertical polarization for optimized signal strength
- Simple installation with included wall-mount hardware
- Compact and lightweight design (approx. 0.4 kg)
- Corrosion-resistant and UV-stabilized radome
- Commonly used in Distributed Antenna Systems (DAS)

Description

The 535W indoor antenna is an omni-directional ceiling-mounted antenna that transmits and receives signals in a full 360° pattern. Its effective range depends on three main factors:

1. Physical obstructions in the building
2. Output power from the booster or amplifier
3. Strength and quality of the outdoor signal received and relayed through the system

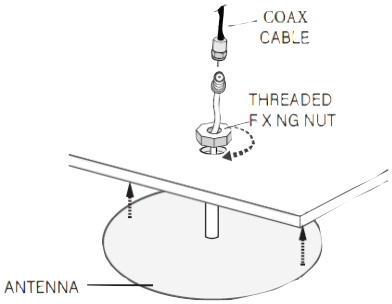
The antenna includes mounting hardware for ceiling installation.

Technical Specifications

Electrical Specifications		
Frequency(MHz)	698-960	1710-2700
Gain (dBi)	6.5	9.0
VSWR	≤1.8	≤1.7
Polarization	Vertical	
PIM, 3rd Order, 2x2w(dBc)	≥150	
Horizontal Beam width	360°	
Vertical Beam width	80°	29°
Input Impedance	50 Ω	
Max Input Power	50 W	
Light Protection	DC Ground	
Mechanical Specifications		
Connector	N Female	
Dimensions(mm)	280x280x45	
Weight (kg)	0.8	
Radome Material	ABS(UV Stabilized)	
Operating Temperature	-40°C to +65°C	
Mounting	Ceiling Mount	

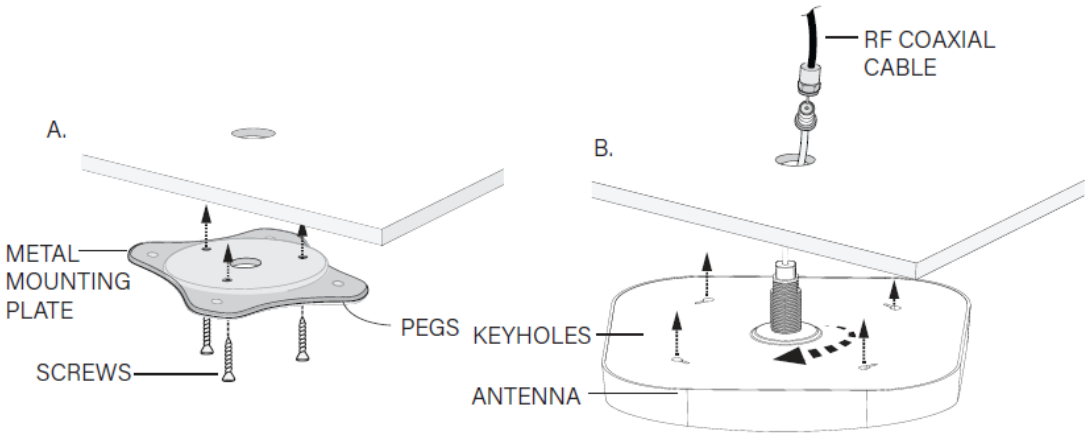
Installation (Crawl Space Accessible)

1. Drill an 18 mm (0.71 in) diameter hole in the ceiling — large enough to pass the antenna's plastic cable base through.
2. Feed the antenna cable down through the hole.
3. From the crawl space, screw the fixing nut onto the antenna and tighten around the threaded plastic cable base to secure it.
4. Connect the female antenna connector to the coaxial cable that runs to the booster port labeled INSIDE.



Installation (Not Crawl Space Accessible)

1. Drill a 20 mm (0.79 in) diameter hole in the ceiling—large enough to allow the antenna's plastic cable base to pass through.
2. Use the included metal mounting plate as a template to align and mark three holes in the ceiling surface.
3. Drill the marked holes and insert the provided anchors.
4. Secure the metal mounting plate to the ceiling by inserting the provided screws through the plate (with interlocking pegs facing downward) and into the ceiling anchors.
5. Push the antenna upward against the bracket surface, allowing the cable to pass through the ceiling.
6. Align the keyhole mounts on the antenna with the downward-facing pegs on the mounting plate, then twist the antenna into place.
7. Connect the antenna's female connector to the RF coaxial cable that runs to the booster port labeled INSIDE.



Ordering Information

Model	Description	Stock No.
535W	Wideband Indoor Omni Ceiling-Mount Antenna, Low Profile, 50 ohm, 3 .5 dBi 698-960 / 1700 -2700 MHz (Mounting Plate Included)	3996140