

## Broadband Dual Polarized MIMO In-Building Antenna [698-960MHz, 1710-2700 MHz]

# PEAR™ M4936i

### Description:

- Ceiling mount omni directional antenna covering 698-960MHz and 1710-2700MHz.
- MIMO IDAS and Small Cell applications requiring ceiling mounted omni antennas.



698-960MHz & 1710-2700 MHz Omni Antenna

### Electrical Specifications

Frequency Band [MHz]	698-790	790-894	894-960	1710-1880	1850-1920	1920-2170	2170-2500	2500-2700
Input Connector Type	2x 4.3-10 DIN(F) or 2x N-Type (F) w/ pigtail (17", 44cm)							
VSWR/Return Loss	<1.8:1 / 10.9 dB			<2.0:1 / 9.5 dB				
Impedance	50 Ω							
Polarization	Vertical & Horizontal							
Horizontal Beamwidth	Omni (360°)							
Isolation	25 dB			25 dB			20 dB	24 dB
Max. Gain	4.6 dBi	4.9 dBi	5.0 dBi	8.1 dBi	7.8 dBi	8.1 dBi	7.5 dBi	7.5 dBi
Avg. Gain	3.7 dBi	3.9 dBi	4.0 dBi	7.4 dBi	7.2 dBi	7.3 dBi	6.5 dBi	6.6 dBi
Max Power / Port	25 Watts at ambient temperature 77°F (25°C)							
PIM @ 2x43 dBm	<-153 dBc (for 4.3-10 connector) / <-150 dBc (for N-Type connector)							

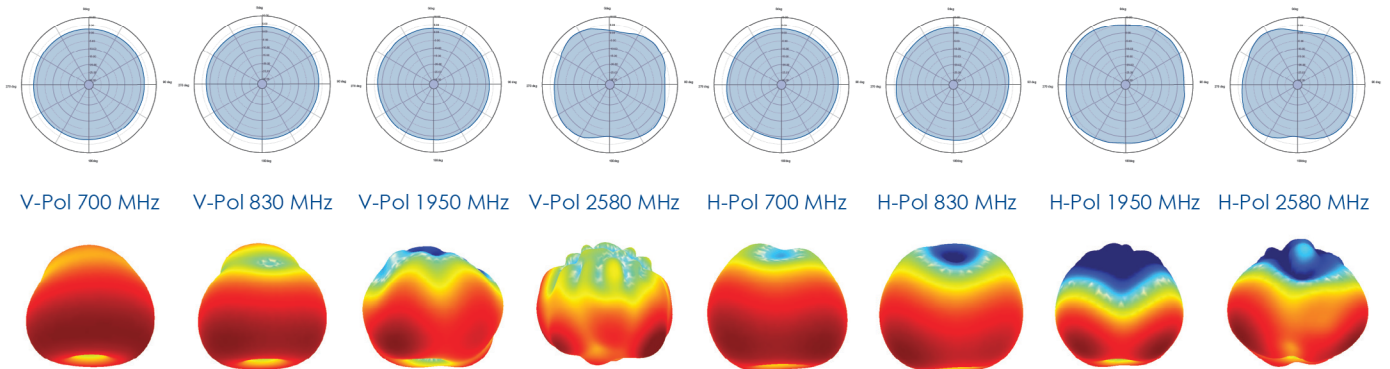
### Mechanical Specifications

Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	3.15 lbs (1.43 kg)
Antenna Diameter	16" (406 mm)
Antenna Height	4.65" (118 mm)
Radome Material	PC / ABS
Flamability rating	UL 94-V0
RoHS	Compliant
Radome Color	RAL 9016 (white)*
Ingress Protection	Indoor


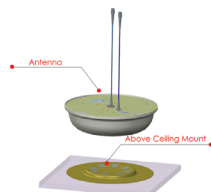
\* Radome can be painted with recommended paint "Krylon fusion for plastic"

Release Date: January 24, 2020; Revision: R3 : M4936i

## Antenna Patterns



## Part Numbers, Ordering Options and Accessories

Description:	Part Number:
<b>Antenna with 2x N-Type (F) Connectors with Below Ceiling Mount</b>	02121261-04936U
<b>Antenna with 2x 4.3-10 DIN (F) Connectors with Below Ceiling Mount</b>	02130261-04936U
Mounting Bracket(s):	Part Number:
<b>Below Ceiling Installation (Included)</b> Fasteners for below suspended ceiling mounting included with antenna. Maximum ceiling thickness 1.18" (30mm).  <b>STEP 1 -</b> Marking antenna center and mounting holes. Insert threaded rods into the base plate of the antenna. Place antenna over desired installation spot and mark lightly the three 3/16" or 5.0 mm holes for the threaded rods & center of the antenna.  <b>STEP 2 -</b> Drill 3/16" or 5mm holes and center hole according to step 1 above, and 5" dia. center hole for M4936i to accommodate pigtail cables.	
<b>Above Ceiling Installation Bracket (Included)</b>  The antenna can be installed above suspended ceilings by using this optional mounting kit.	 <p>62-13-03</p>

### Matting Male Connector Torque:

N-Type: 26.6 in-lb (3 Nm)

4.3-10: 44.3 in-lb (5 Nm)

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