

Small Form Factor MIMO Antenna [698-960 MHz, 1695-2700 MHz]

# PEAR™ M5542i w/ Pigtail

**Description:**

- Ceiling mount omni directional antenna covering 698-960 MHz and 1695-2700 MHz.
- MIMO IDAS and Small Cell applications requiring ceiling mounted omni antennas.



698-960 MHz & 1695-2700 MHz Omni Antenna

**Electrical Specifications**

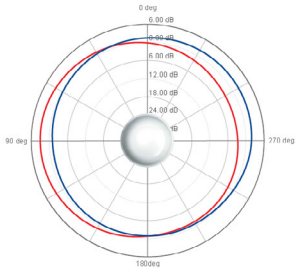
Frequency Band [MHz]	698-894	894-960	1695-2180	2180-2700
Input Connector Type	2x N-Type (F) or 2x 4.3-10 DIN (F) w/ pigtail (12", 30cm)			
VSWR/Return Loss	<1.7:1 / 11.8 dB	<1.8:1 / 10.9 dB	<1.7:1 / 11.8 dB	<1.5:1 / 14.0 dB
Impedance	50 Ω			
Horizontal Beamwidth	Omni (360°)			
Isolation	20 dB		25 dB	30 dB
Max. Gain	3.5 dBi	3.7 dBi	5.9 dBi	6.3 dBi
Avg. Gain	2.4 dBi	3.0 dBi	4.4 dBi	5.5 dBi
Max Power / Port	50 Watts at ambient temperature 77°F (25°C)			
PIM @ 2x43 dBm	<-153 dBc (for 4.3-10) / <-150 dBc (for N-Type)			

**Mechanical Specifications**

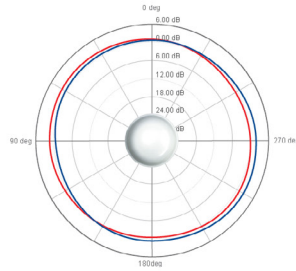
Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	0.95 lbs (0.43 kg)
Antenna Diameter	8.2" (208 mm)
Antenna Height	2.8" (72 mm)
Radome Material	PC / ABS
Flamibility rating	UL 94-V0
RoHS	Compliant
Radome Color	RAL 9016 (white)*
Ingress Protection	Indoor
Cable	Plenum Rated
Approved for use in Plenum Space	Listed & tested by Intertek / ETL
Shipping Dimensions - L x W x D	12.2"x10.6"x8.6" / 310x270x220mm
Shipping Weight (Gross Weight)	3.35 lbs (1.52 kg)

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

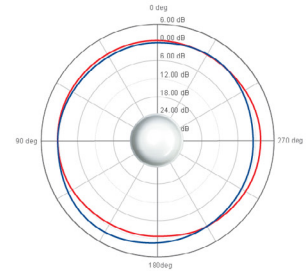
## Antenna Patterns



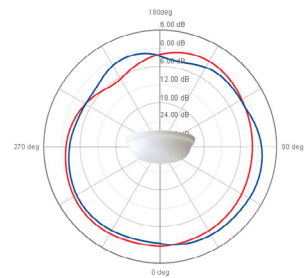
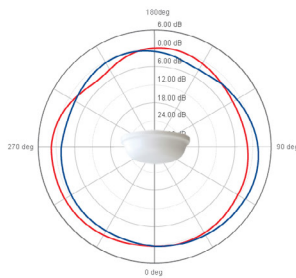
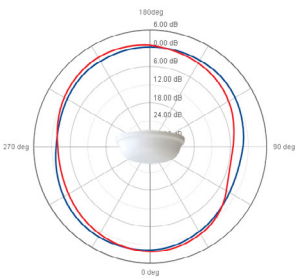
710 MHz



850 MHz

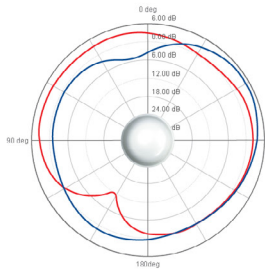


910 MHz

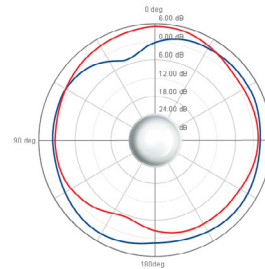


Port 1 ———

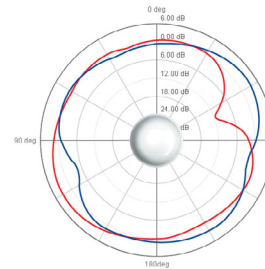
Port 2 ———



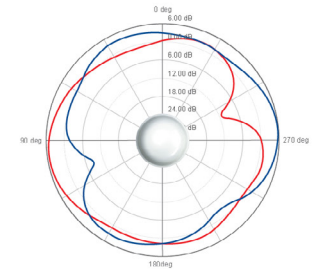
1710 MHz



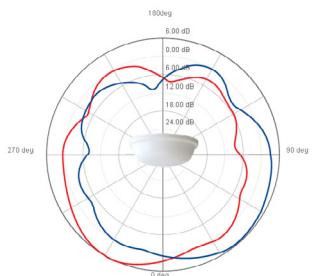
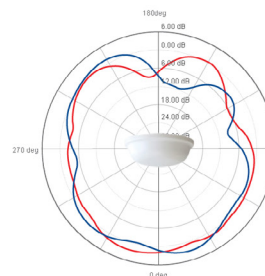
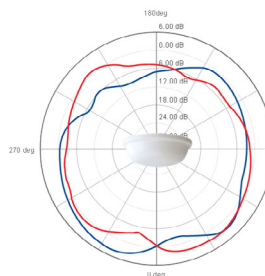
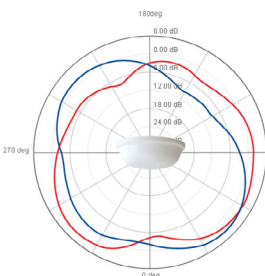
1910 MHz



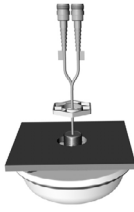
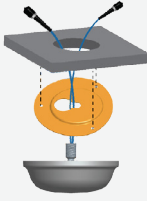

2170 MHz



2500 MHz



## Part Numbers, Ordering Options and Accessories

Description:	Part Number:
<b>Antenna with 2x N-Type DIN (F) Connectors</b>	02121261-05542U
<b>Antenna with 2x 4.3-10 DIN (F) Connectors</b>	02130261-05542U
Mounting Bracket(s):	Part Number:
<p><b>Below Ceiling Installation (Standard)</b></p> <p>Fasteners for below suspended ceiling mounting included with antenna. Maximum ceiling thickness 1.18" (30mm).</p> <p>Instructions: Drill a 1.18" (30mm) hole in the ceiling tile. Secure the antenna to the ceiling tile with the supplied plastic nut. <b>Included with antenna.</b></p>	
<p><b>Hard Ceiling Installation Bracket (Optional)</b></p> <p>The hard ceiling mounting bracket allows for installation onto drywall ceilings possible by eliminating additional access above the antenna.</p>	 <p style="text-align: right;">62-31-09</p>
<p><b>Above Ceiling Installation Bracket (Optional)</b></p> <p>The antenna can be installed above suspended ceilings by using this optional mounting kit.</p>	 <p style="text-align: right;">62-46-03</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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