

Ultra Wideband MIMO DAS Antenna [617-960, 1695-2690, 3300-4200 MHz]

HyperFlat™ GI1202-07362

Description/Features:

- HyperFlat™ design minimizes aesthetic impact
- Patent Pending technology - only 3.6mm/0.143" thick with excellent gain/coverage
- Omnidirectional antenna covering 617-960, 1695-2690 & 3300-4200 MHz for DAS applications requiring ceiling mounted omni antennas
- Optional external MK-07458 reflector available to optimize RF performance and reduce unwanted backside radiation
- 3 available colors (white, gray & black) to match specific venues



617-960, 1695-2690 and 3300-4200 MHz
MIMO HyperFlat™ Omni DAS Antenna

Electrical Specifications

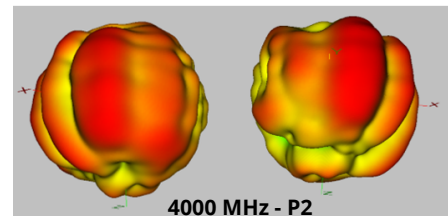
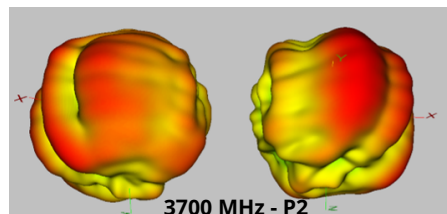
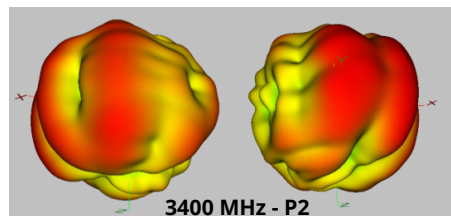
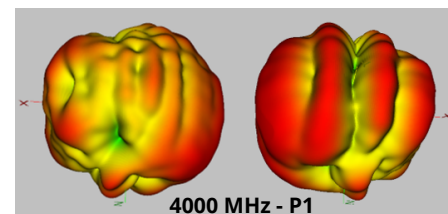
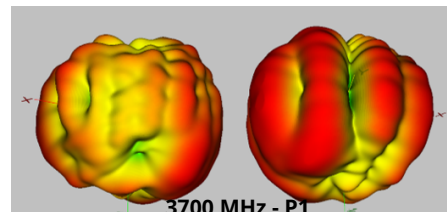
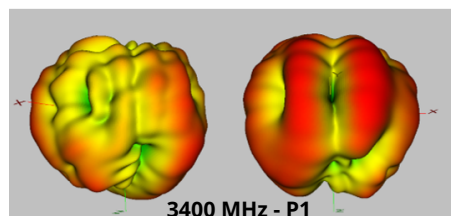
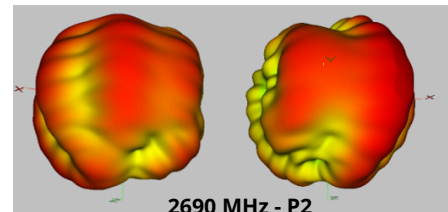
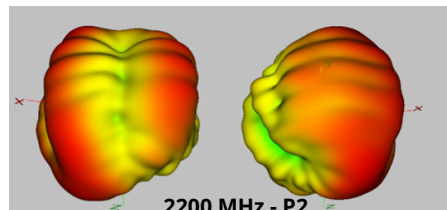
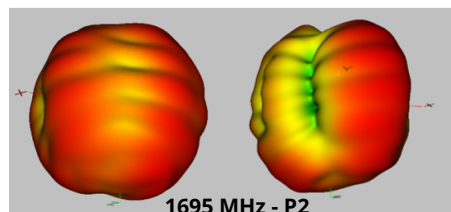
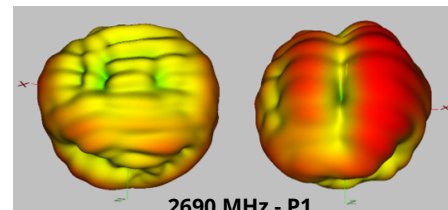
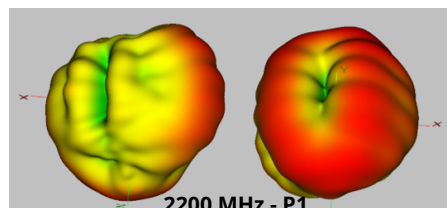
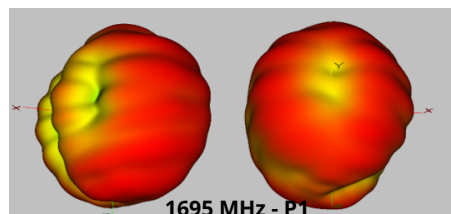
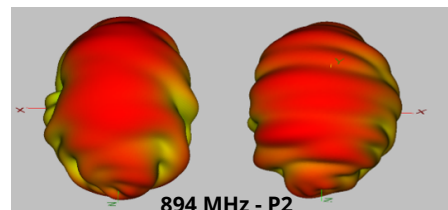
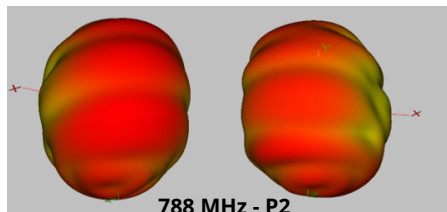
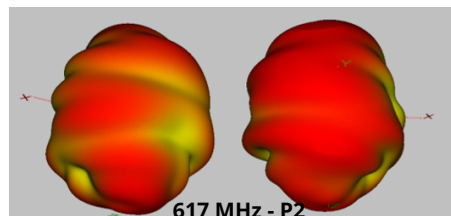
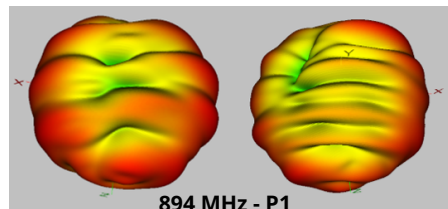
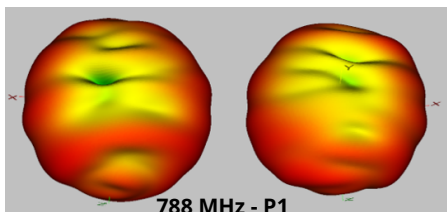
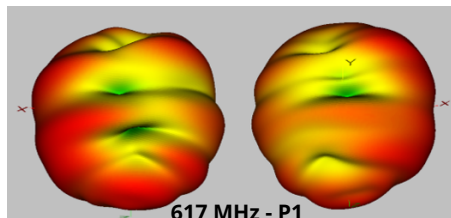
Frequency Band [MHz]	617-698	698-806	806-960	1695-1850	1850-1990	1990-2200	2200-2400	2400-2690	3300-4200
Input Connector Type	2x 4.3-10(F) Pigtail (19.7"/500 mm)								
Isolation (min.) Without MK-07470 Reflector	12 dB			22 dB			24 dB		
Isolation (min.) With MK-07470 Reflector	11 dB	10 dB		20 dB	22 dB	25 dB			24 dB
VSWR (max.) / RL (min.) With/Without MK-07470 Reflector	1.92:1 / 10.0 dB	1.7:1 / 12.0 dB except 1.5:1 / 14.0 dB in the following bands: 746-787 MHz/824-894 MHz/1710-1780 MHz/1850-1990 MHz/2110-2200 MHz/3550-3980 MHz							
Polarization	Linear								
Horizontal Beamwidth	Omni (360°)								
Gain (max.)	4.6 dBi	4.7 dBi	5.1 dBi	4.3 dBi	4.4 dBi	5.7 dBi	5.4 dBi	5.4 dBi	6.1 dBi
Gain (avg.)	4.0 dBi	4.2 dBi	4.3 dBi	3.3 dBi	3.7 dBi	4.9 dBi	4.7 dBi	4.7 dBi	5.3 dBi
Gain (max.) w/Reflector	8.1 dBi	8.2 dBi	7.4 dBi	9.6 dBi	9.4 dBi	9.5 dBi	9.5 dBi	8.1 dBi	8.2 dBi
Gain (avg.) w/Reflector	7.7 dBi	7.6 dBi	6.7 dBi	8.2 dBi	8.4 dBi	8.6 dBi	8.2 dBi	7.4 dBi	6.7 dBi
Max Power / Port	50 W @77°F (25°C)								
PIM @ 2x43 dBm (max.)	-153 dBc								-145 dBc
Impedance	50 Ω								

Mechanical Specifications

Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	0.60 lbs (0.27kg)
Antenna Dimensions (diameter x height)	12.0" (304.8 mm) x 0.143" (3.6 mm)
Flammability	UL94-V0 Compliant
Pigtails	Plenum Rated
RoHS	Compliant
Colors*	White, Gray & Black
Environmental Protection	Indoor

* Minor variation of each specific color is natural.

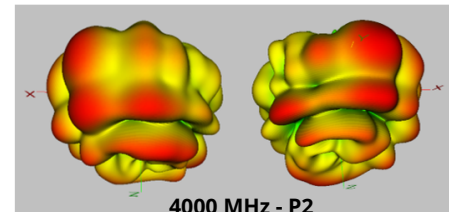
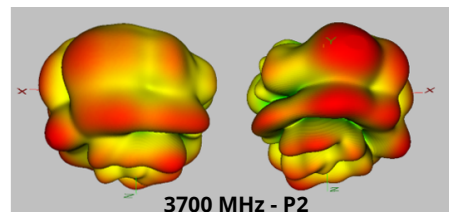
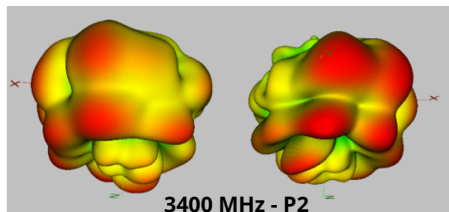
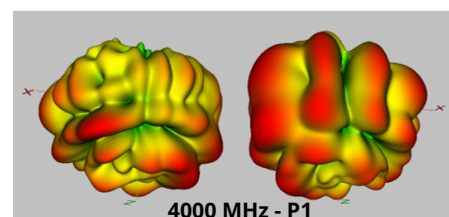
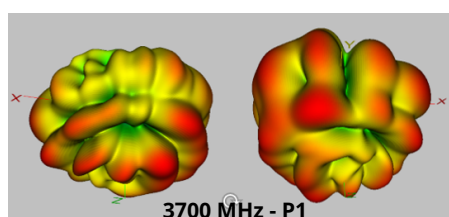
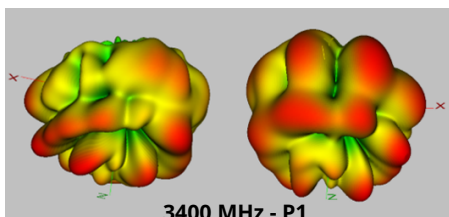
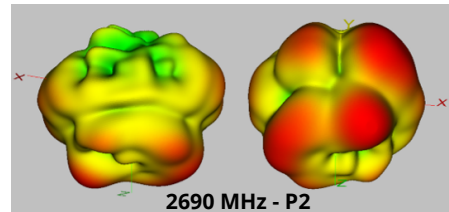
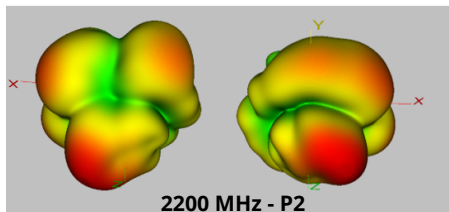
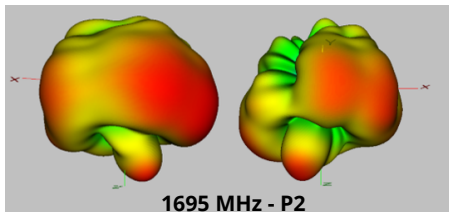
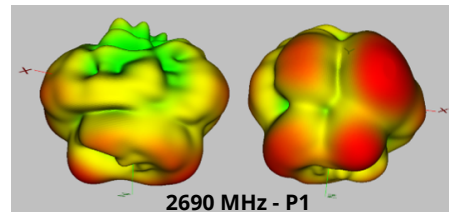
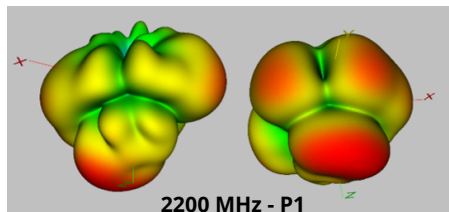
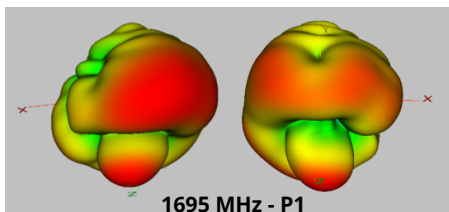
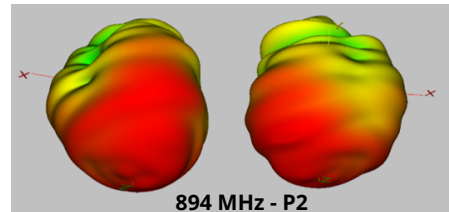
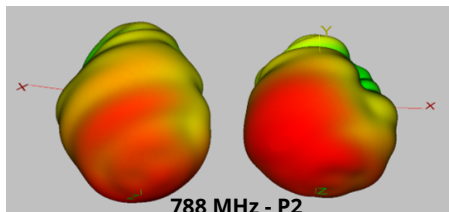
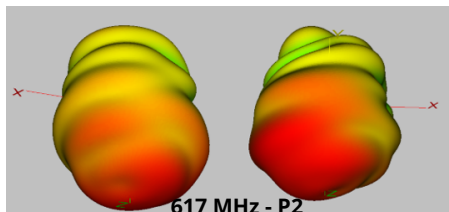
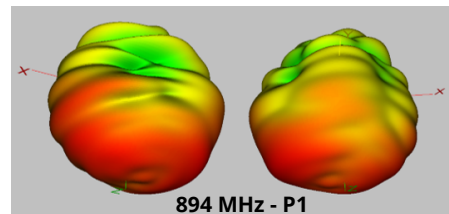
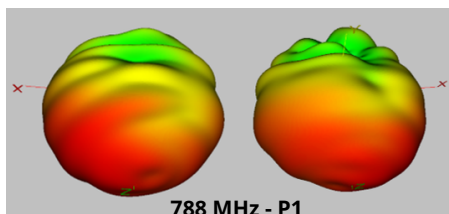
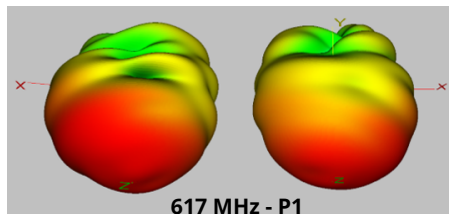
3D Antenna Patterns - Without MK-07470 Reflector



3D Patterns Note:

3D images above denote X & Y Axes in horizontal plane, while Z-axis is in vertical plane towards floor/user as would be typical of most DAS ceiling mounted omnidirectional antenna installations. Y-axis corresponds to "REF 0° AZ" orientation arrow on rear of antenna (see outline - page 3).

3D Antenna Patterns - With MK-07470 Reflector

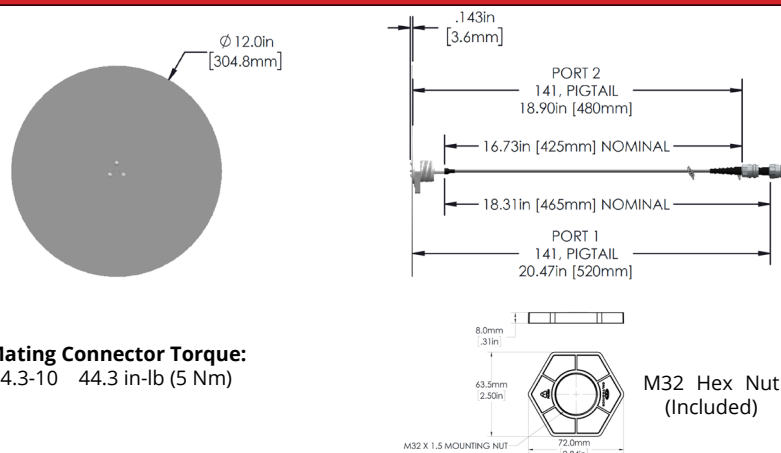


3D Patterns Note:

3D images above denote X & Y Axes in horizontal plane, while Z-axis is in vertical plane towards floor/user as would be typical of most DAS ceiling mounted omnidirectional antenna installations. Y-axis corresponds to "REF 0° AZ" orientation arrow on rear of antenna (see outline - page 3).

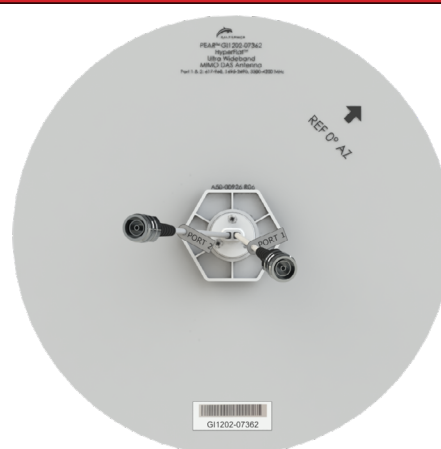
RFD#7362 ; Revision: R4 ; Release Date: March 05, 2021;

Antenna Outline and Bottom View with Label



Mating Connector Torque:
4.3-10 44.3 in-lb (5 Nm)

M32 Hex Nut
(Included)



Part Numbers, Ordering Options

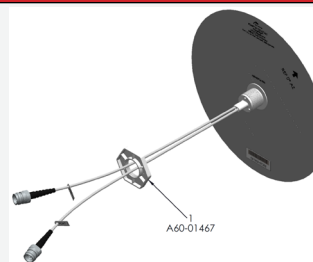
Description	Color*	Mounting Kit	Part Number
HyperFlat™ DAS MIMO Omni Antenna with 18.9"-20.5" (480-520mm) 4.3/10(F) Pigtails	White	Includes M32 Mounting Hex Nut for Ceiling Tile Installation	GI1202-07362-212
	Gray		GI1202-07362-112
	Black		GI1202-07362-B12
HyperFlat™ DAS MIMO Omni Antenna with 18.9"-20.5" (480-520mm) 4.3/10(F) Pigtails and MK-07470 Reflector Kit	White	Includes M32 Mounting Hex Nut for Ceiling Tile Installation and MK-07470 Reflector Kit	GI1202-07362-21R
	Gray		GI1202-07362-11R
	Black		GI1202-07362-B1R

Mounting Bracket(s):

Below Ceiling Installation (Included)

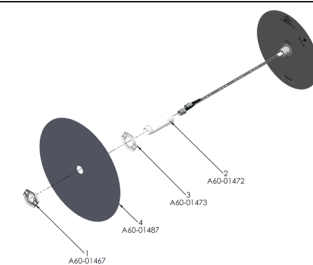
Plastic Hex Nut for below suspended ceiling mounting included with antenna. Maximum ceiling thickness 0.75" (19 mm).

Instructions: Drill a 47 mm minimum (1.875" nominal) hole in the ceiling tile. Secure the antenna to the ceiling tile with the supplied plastic nut on backside.



External Reflector/Ground Plane (Optional)

Optional external ground plane be placed above the antenna (on backside of ceiling tile) to improve gain, and limit potential unwanted backside RF radiation. The MK-07458 is supplied with spacer collar and plastic hex nut to locate the reflector securely in place.

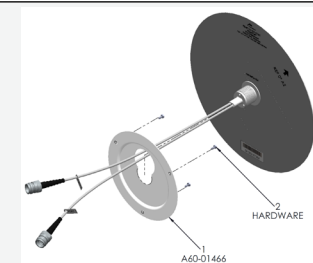


MK-07470

Hard Ceiling Installation Bracket (Optional)

The hard ceiling mounting bracket allows for installation onto drywall, wood or plastic ceilings possible by eliminating additional access above the antenna.

NOT RECOMMENDED FOR MOUNTING TO METAL OR CONCRETE CEILINGS



MK-07515

* Minor variation of each specific color is natural.

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