

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

# HyperFlat™ GI0801-07361

### 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  
SISO HyperFlat™ Omni DAS Antenna

### Electrical Specifications

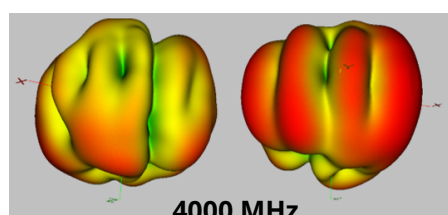
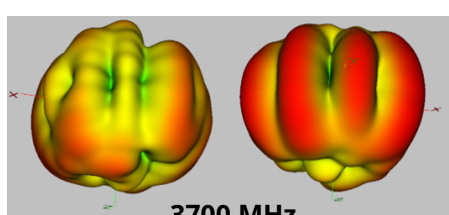
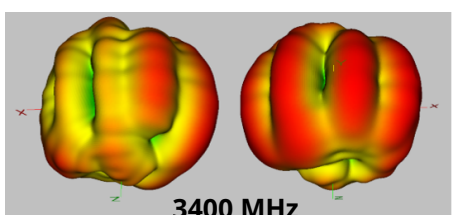
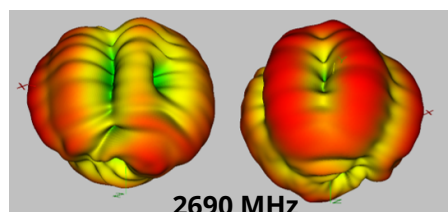
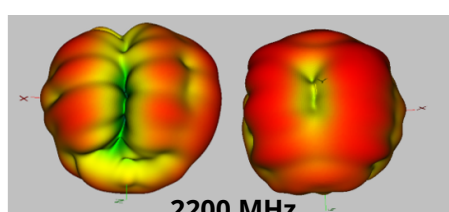
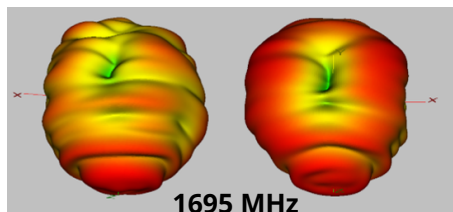
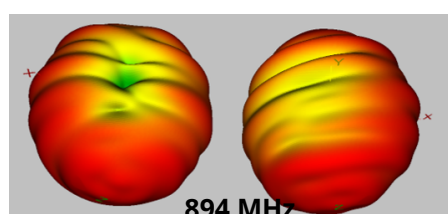
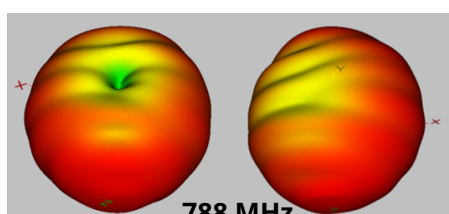
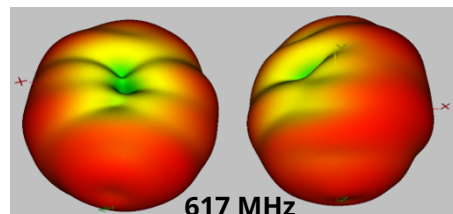
| Frequency Band [MHz]                                      | 617-698                          | 698-806   | 806-960 | 1695-1850 | 1850-1990 | 1990-2200 | 2200-2400 | 2400-2690 | 3300-4200 |
|---|----------------------------------|---|---------|-----------|-----------|-----------|-----------|-----------|-----------|
| Input Connector Type                                      | 4.3-10(F) Pigtail (19.7"/500 mm) |   |         |           |           |           |           |           |           |
| VSWR (max.) /RL (min.)<br>With/Without MK-07458 Reflector | 1.93:1/<br>10.0 dB               | 1.7:1 / 12.0 dB except 1.5:1 / 14.0 dB in the following bands:<br>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.)   | 4.3 dBi                          | 5.2 dBi   | 5.4 dBi | 4.3 dBi   | 3.3 dBi   | 4.5 dBi   | 4.5 dBi   | 4.6 dBi   | 6.4 dBi   |
| Gain (avg.)   | 3.8 dBi                          | 4.7 dBi   | 4.8 dBi | 3.6 dBi   | 3.2 dBi   | 4.0 dBi   | 3.7 dBi   | 3.8 dBi   | 6.0 dBi   |
| Gain (max.) w/Reflector                                   | 7.2 dBi                          | 7.7 dBi   | 7.2 dBi | 6.7 dBi   | 6.6 dBi   | 5.6 dBi   | 5.6 dBi   | 6.0 dBi   | 6.6 dBi   |
| Gain (avg.) w/Reflector                                   | 5.9 dBi                          | 7.3 dBi   | 6.9 dBi | 6.4 dBi   | 5.9 dBi   | 5.0 dBi   | 5.3 dBi   | 5.5 dBi   | 6.2 dBi   |
| Max Power / Port  | 50 W @77°F (25°C)                |   |         |           |           |           |           |           |           |
| PIM @ 2x43 dBm (max.)                                     | -153 dBc                         |   |         |           |           |           |           |           | -145 dBc  |
| Impedance   | 50 Ω                             |   |         |           |           |           |           |           |           |

### Mechanical Specifications

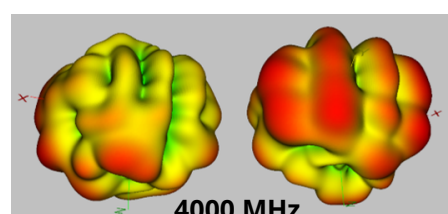
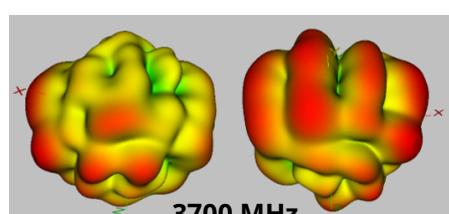
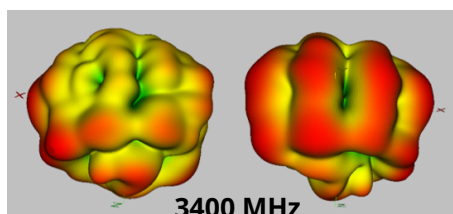
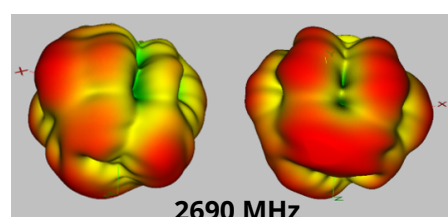
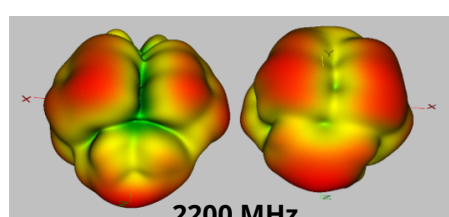
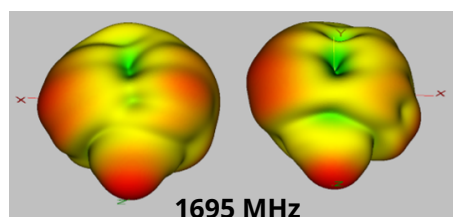
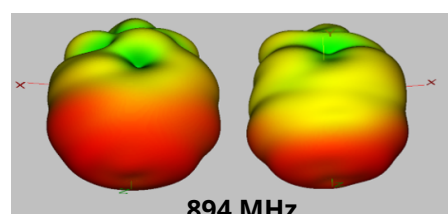
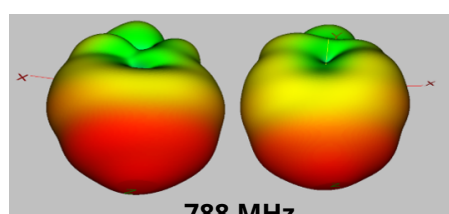
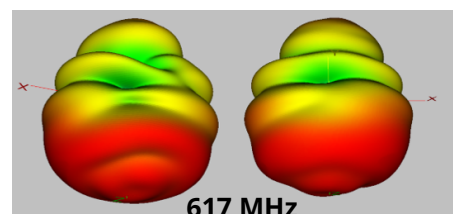
|  |                                   |
|--|-----------------------------------|
| Operating Temperature                  | -40° to 158°F (-40° to +70°C)     |
| Antenna Weight                         | 0.30 lbs (0.14 kg)                |
| Antenna Dimensions (diameter x height) | 8.0" (203.2 mm) x 0.143" (3.6 mm) |
| Flammability                           | UL94-V0 Compliant                 |
| Pigtail                                | Plenum Rated                      |
| RoHS                                   | Compliant                         |
| Colors*                                | White, Gray & Black               |
| Environmental Protection               | Indoor                            |

\* Minor variation of each specific color is natural.

### 3D Antenna Patterns - Without MK-07458 Reflector



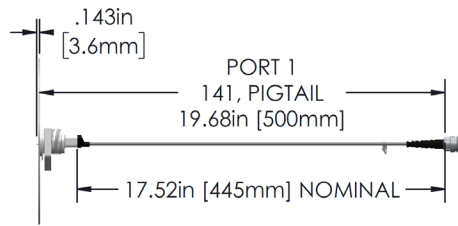
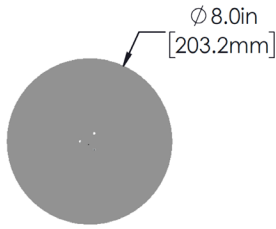
### 3D Antenna Patterns - With MK-07458 Reflector



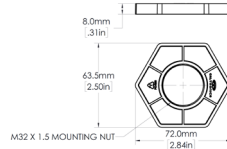
#### 3D Patterns Note:

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).

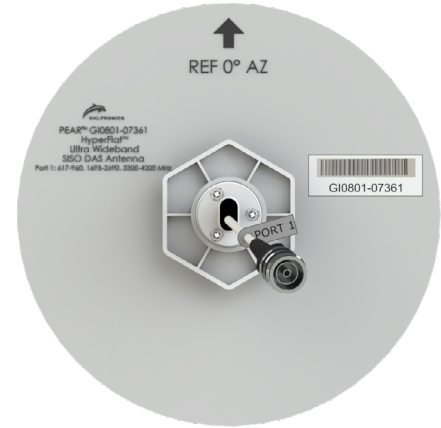
## Antenna Outline and Bottom View with Label



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



M32 Hex Nut  
(Included)



## Part Numbers, Ordering Options

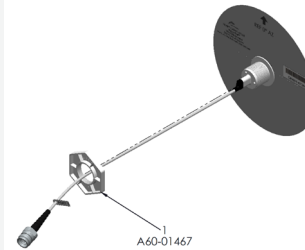
| Description  | Color* | Mounting Kit   | Part Number      |
|--|--------|--|------------------|
| HyperFlat™ DAS SISO Omni Antenna with 19.7" (500mm) 4.3/10(F) Pigtail                            | White  | Includes M32 Mounting Hex Nut for Ceiling Tile Installation                            | GI0801-07361-212 |
|  | Gray   |  | GI0801-07361-112 |
|  | Black  |  | GI0801-07361-B12 |
| HyperFlat™ DAS SISO Omni Antenna with 19.7" (500mm) 4.3/10(F) Pigtail and MK-07458 Reflector Kit | White  | Includes M32 Mounting Hex Nut for Ceiling Tile Installation and MK-07458 Reflector Kit | GI0801-07361-21R |
|  | Gray   |  | GI0801-07361-11R |
|  | Black  |  | GI0801-07361-B1R |

## Mounting Bracket(s):

### Below Ceiling Installation (Included)

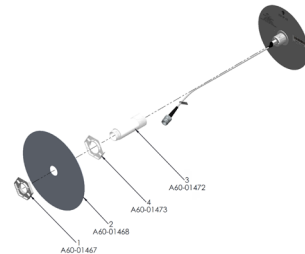
Plastic Hex Nut for below suspended ceiling mounting included with antenna. Maximum ceiling thickness 0.75" (19 mm).

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.

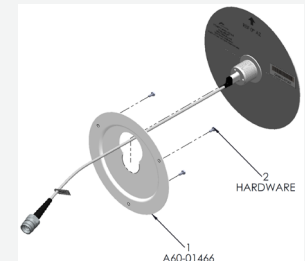


MK-07458

### 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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