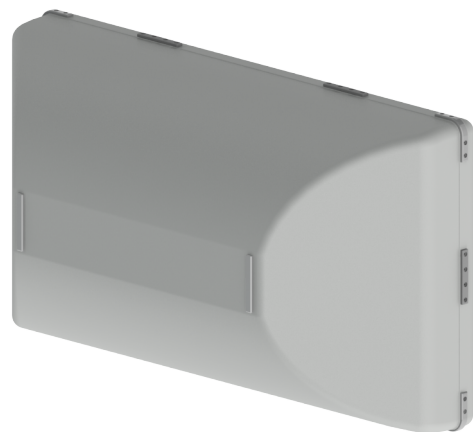


## 6-beams 120° Sector Low Band 2x2 Antenna [617-960 MHz]

### GP4812-B8038

#### Description:

- 2x2 MIMO 6-beams 120° sector antenna for high-capacity stadium/venue or special events applications
- 6-beams (12 ports) 617-960 MHz; each beam with 2x2 MIMO capability
- 6° Fixed Electrical Downtilt
- Patent pending technology allows for stable azimuth beam directions over the entire operating frequency band
- External ruggedized features of the antenna enclosure provide added protection during the installation process



#### Electrical Specifications

| Frequency Band [MHz]                     | 617-698                           | 698-806 | 806-896 | 896-960 |
|------------------------------------------|-----------------------------------|---------|---------|---------|
| Port Designator                          | P1-P12                            |         |         |         |
| Gain, max. (dBi)                         | 19.2                              | 19.6    | 20.7    | 21.1    |
| Gain, avg. (dBi)                         | 17.8                              | 18.5    | 19.4    | 19.8    |
| Azimuth Beamwidth (°)                    | 13.5                              | 12.1    | 11.2    | 10.6    |
| Azimuth Beamwidth, 10dB (°)              | 24                                | 21      | 20      | 19      |
| Azimuth Beam Spacing (°)                 | 18                                |         |         |         |
| Azimuth Beam Crossover (dB)              | 7                                 | 9       | 10      | 11      |
| Elevation Beamwidth (°)                  | 21.3                              | 19.2    | 16.9    | 15.4    |
| Elevation Beamwidth, 10dB (°)            | 38                                | 34      | 29      | 27      |
| Electrical Downtilt (°)                  | 6 FET (per each 2x2 beam cluster) |         |         |         |
| First Upper Sidelobe Suppression (dB)    | 23                                | 22      | 20      | 19      |
| Cross-Polar Discr. @ Boresight (dB)      | 18                                | 20      | 20      | 19      |
| Front-to-Back Ratio, 180° (dB)           | 38                                |         |         |         |
| VSWR / RL (dB)                           | 1.5:1 / 14.0                      |         |         |         |
| Port-to-Port Isolation, Intrabeam (dB)*  | 26                                |         |         |         |
| Port-to-Port Isolation, Interbeam (dB)** | 11                                | 14      | 16      | 16      |
| PIM @ 2x43 dBm (dBc)                     | -153                              |         |         |         |
| Max Power / Port (W)                     | 200                               |         |         |         |
| Max Total Power (W)                      | 2400                              |         |         |         |
| Polarization (°)                         | Dual slant 45 (±45)               |         |         |         |
| Impedance (Ω)                            | 50                                |         |         |         |

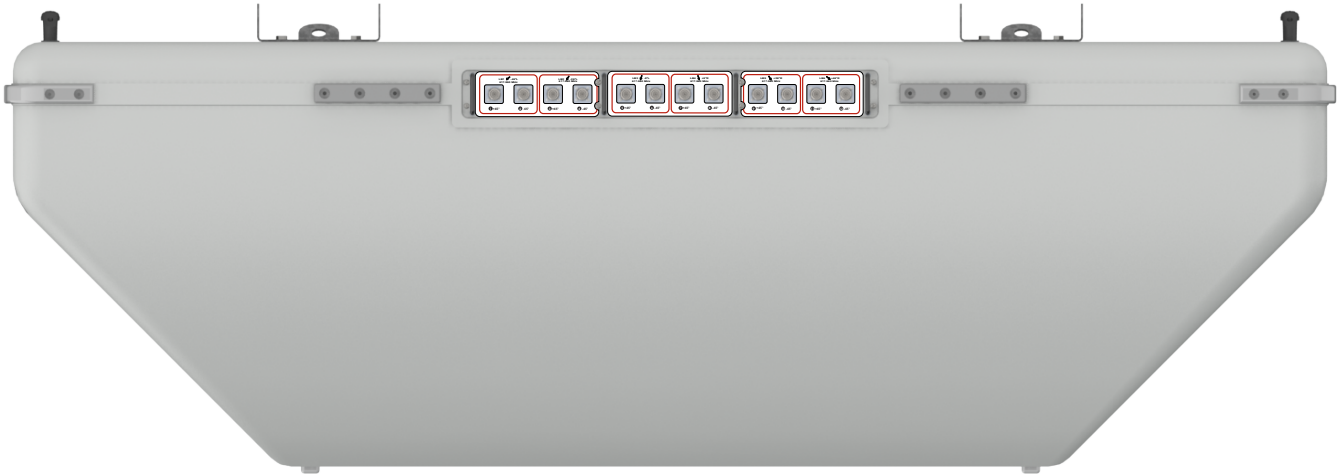
\* Port-port isolation between each cluster of two ports in the same 2x2 MIMO beam

\*\* Port-port isolation between any combination of ports between different beams

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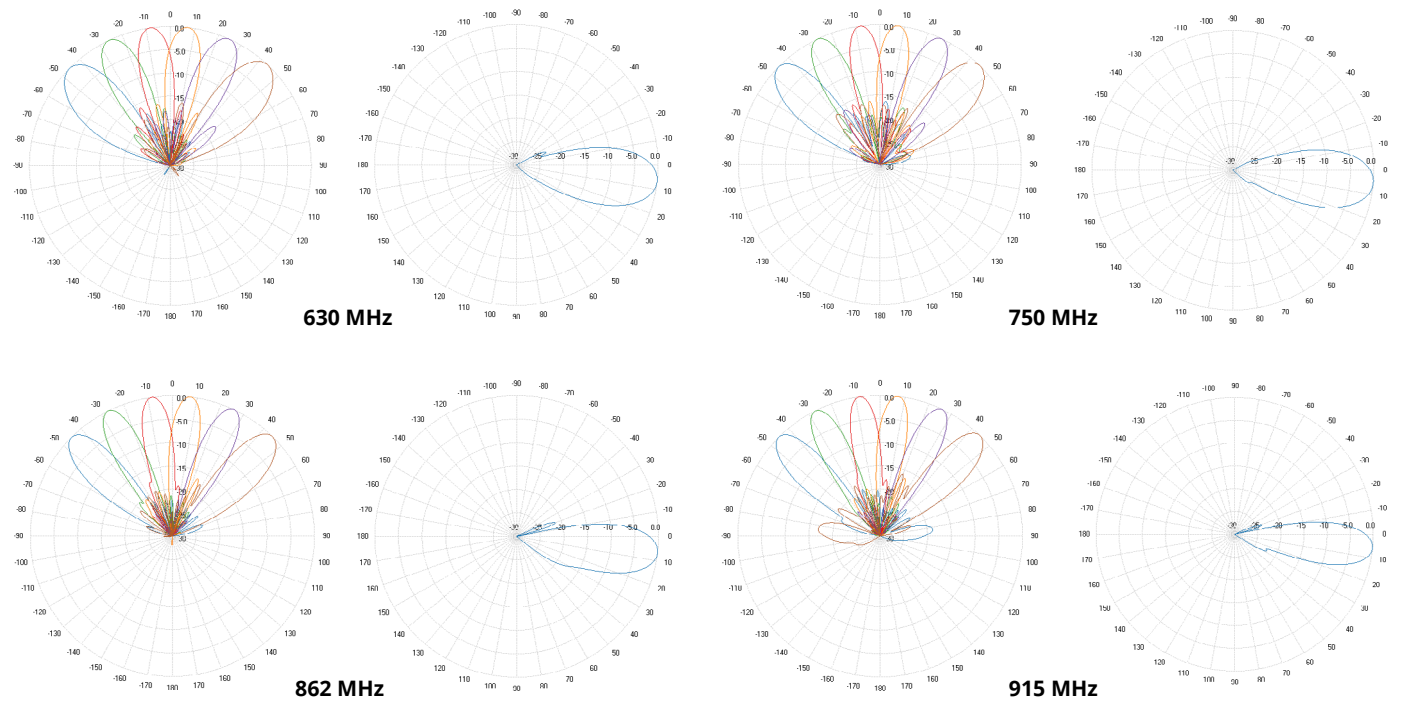
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Bottom Plate & Port Designation Details



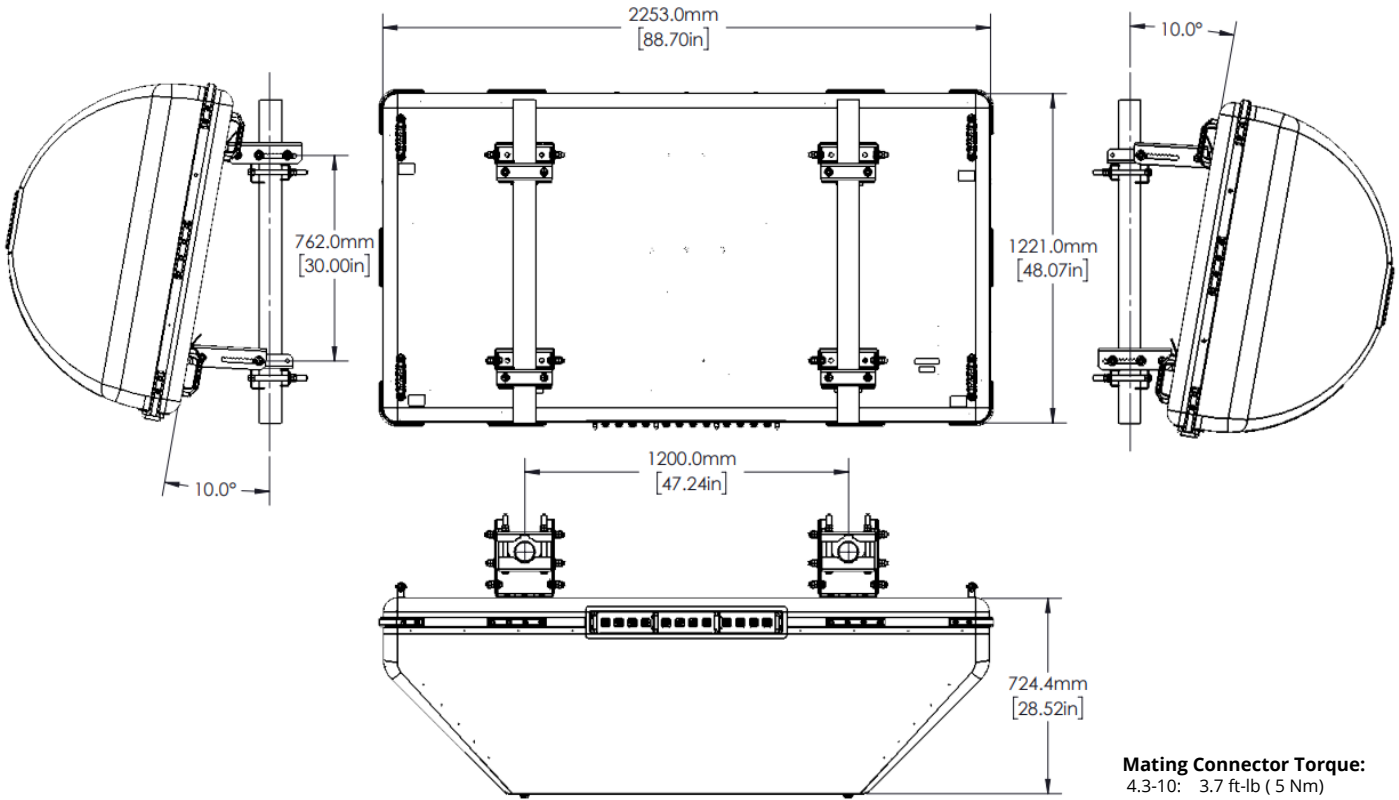
| Port/Beam Designator Table |         |                 |                   |          |
|----------------------------|---------|-----------------|-------------------|----------|
| Frequency Range            | Ports   | Beam Assignment | AZ Beam Direction | Downtilt |
| 617-960 MHz                | 1 - 2   | LB1             | -46° L            | 6° Fixed |
| 617-960 MHz                | 3 - 4   | LB2             | -26° L            | 6° Fixed |
| 617-960 MHz                | 5 - 6   | LB3             | -8° L             | 6° Fixed |
| 617-960 MHz                | 7 - 8   | LB4             | +8° R             | 6° Fixed |
| 617-960 MHz                | 9 - 10  | LB5             | +26° R            | 6° Fixed |
| 617-960 MHz                | 11 - 12 | LB6             | +46° R            | 6° Fixed |

2D Antenna Patterns



RFD#: B8038; Revision: R2; Release Date: October 14, 2025;

Mechanical Outline



Mechanical Specifications

|                                            |                                                          |
|--------------------------------------------|----------------------------------------------------------|
| Operating Temperature                      | -40° to 158°F (-40° to +70°C)                            |
| Antenna Weight                             | 198.4 lbs (90.0 kg)                                      |
| Antenna Bracket Weight                     | 27.4 lbs (12.4 kg), 2 x Brackets per Antenna             |
| Antenna Dimension (Height x Width x Depth) | 48.1" (1221.0 mm) x 88.7" (2253.0 mm) x 28.5" (724.4 mm) |
| Input Connector Type                       | 12 x 4.3/10 (F)                                          |
| Radome Material                            | ASA w/Heavy Duty Top/Bottom Caps                         |
| Radome Color                               | Gray                                                     |
| Environment Rating Outdoor                 | Outdoor                                                  |
| Wind Load, Front (@ 150 km/h)*             | 2042 N / 459 lbf                                         |
| Wind Load, Back (@ 150 km/h)*              | 3358 N / 755 lbf                                         |
| Wind Load, Side (@ 150 km/h)*              | 747 N / 168 lbf                                          |
| Wind Survival Rating                       | 150 mph (241 km/h)                                       |

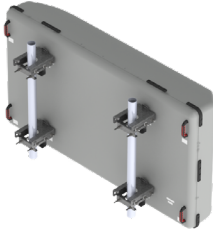
\* Wind load based on calculation according to TIA-222-H, using flat panel for rear and side and using full cylinder for front

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## Part Numbers & Ordering Options

| Description                             | Color | Mounting Kit                                 | Part Number      |
|-----------------------------------------|-------|----------------------------------------------|------------------|
| 6-Beam 120° Sector Low Band 2x2 Antenna | Gray  | Includes 2x MK-08143 mounting kit assemblies | GP4812-B8038-112 |

## Mounting Brackets & Optional Accessories

| Description                                                                                                                                                                                                                                                                                                                                                                                              | Part Number                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <p><b>Heavy Duty Mounting Bracket (wind speed of 150 mph) [2x Included]</b></p> <p>The MK-08143 standard mounting bracket allows for easy installation of this Galtronics Multibeam Antenna. It provides <math>\pm 10^\circ</math> mechanical tilt adjustability, and fits pole diameters ranging from 2" to 4.5".</p> <p><b>Note:</b> The MK-08143 mounting bracket can also be ordered separately.</p> |  <p>MK-08143</p> |