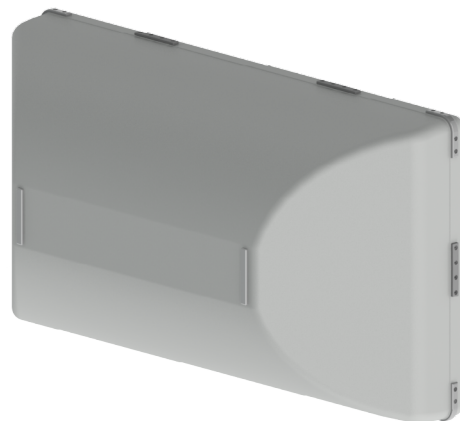


6-beams 120° Sector Low Band 2x2 Antenna [617-960 MHz]

GP4812-08038

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
- 16° 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)	19.0	19.8	20.5	20.6
Gain, avg. (dBi)	17.5	18.4	19.2	19.3
Azimuth Beamwidth (°)	14.0	13.0	12.0	11.3
Azimuth Beamwidth, 10dB (°)	25	23	21	20
Azimuth Beam Spacing (°)	18			
Azimuth Beam Crossover (dB)	7	8	10	11
Elevation Beamwidth (°)	21.4	18.7	16.7	15.5
Elevation Beamwidth, 10dB (°)	38	33	29	27
Electrical Downtilt (°)	16 FET (per each 2x2 beam cluster)			
First Upper Sidelobe Suppression (dB)	15.6	16.3	17.1	17.2
Cross-Polar Discr. @ Boresight (dB)	16	17	17	17
Front-to-Back Ratio, 180° (dB)	35			
VSWR / RL (dB)	1.5:1 / 14.0			
Port-to-Port Isolation, Intrabeam (dB)*	25			
Port-to-Port Isolation, Interbeam (dB)**	16			
PIM @ 2x43 dBm (dBc)	-153			
Max Power / Port (W)	200			
Max Total Power (W)	2400			
Polarization (°)	Dual slant 45 (±45)			
Impedance (Ω)	50			

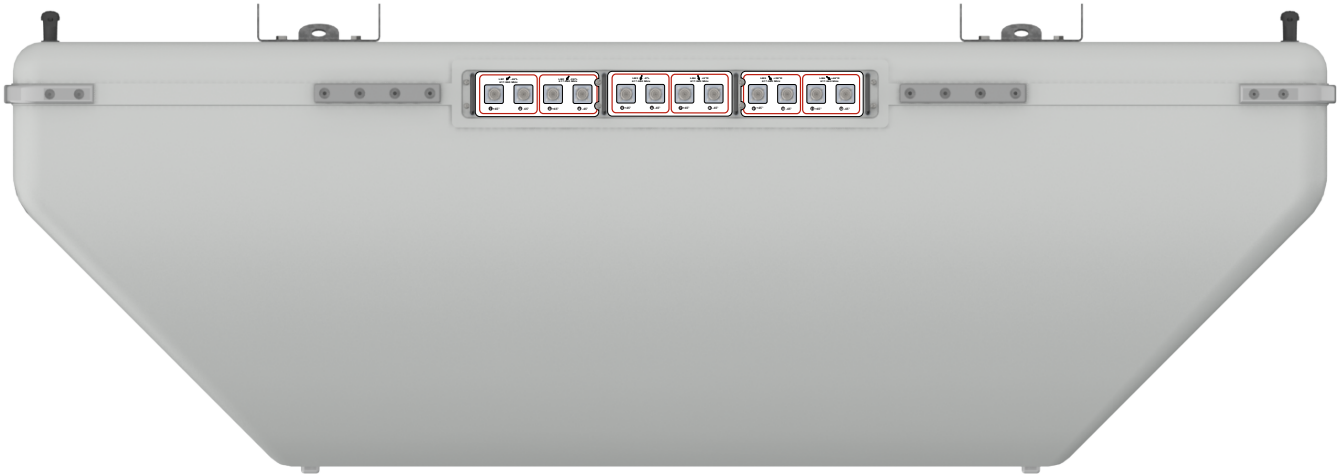
* Port-port isolation between each cluster of two ports in the same 2x2 MIMO beam

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

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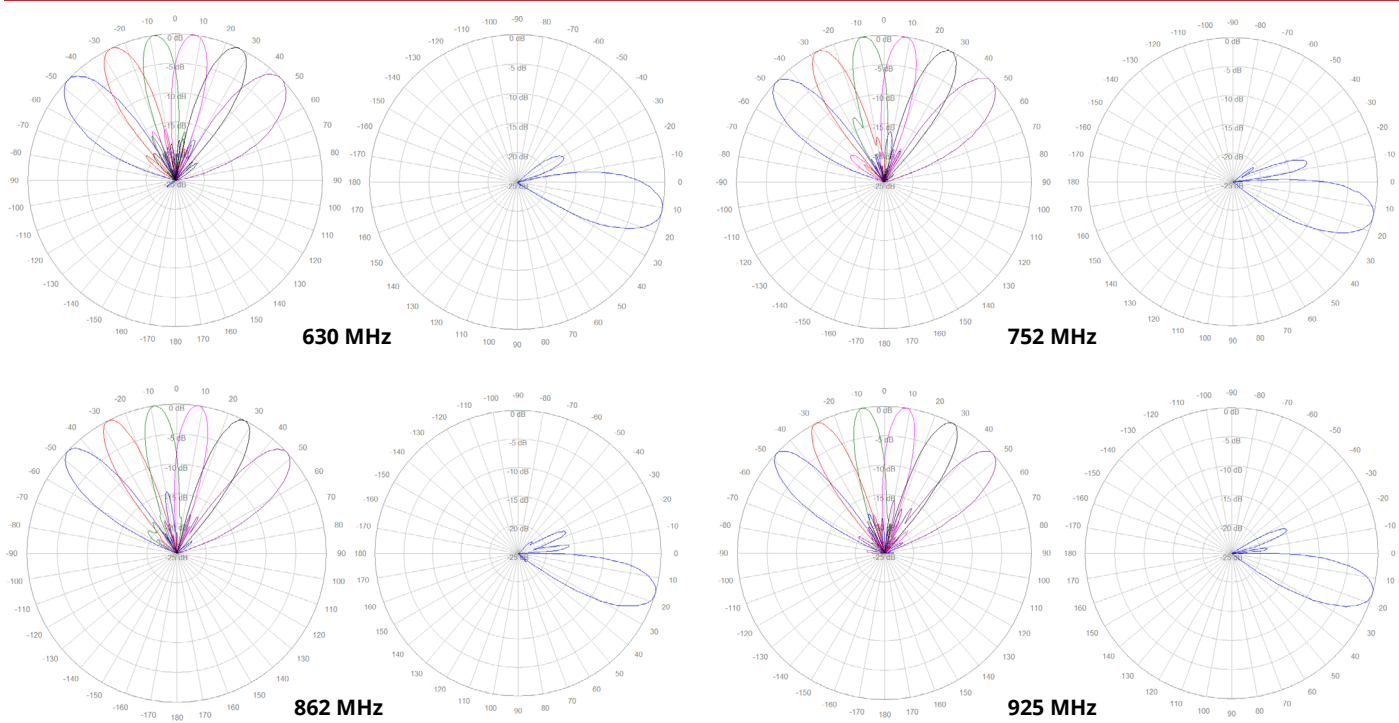
Bottom Plate & Port Designation Details



Port/Beam Designator Table

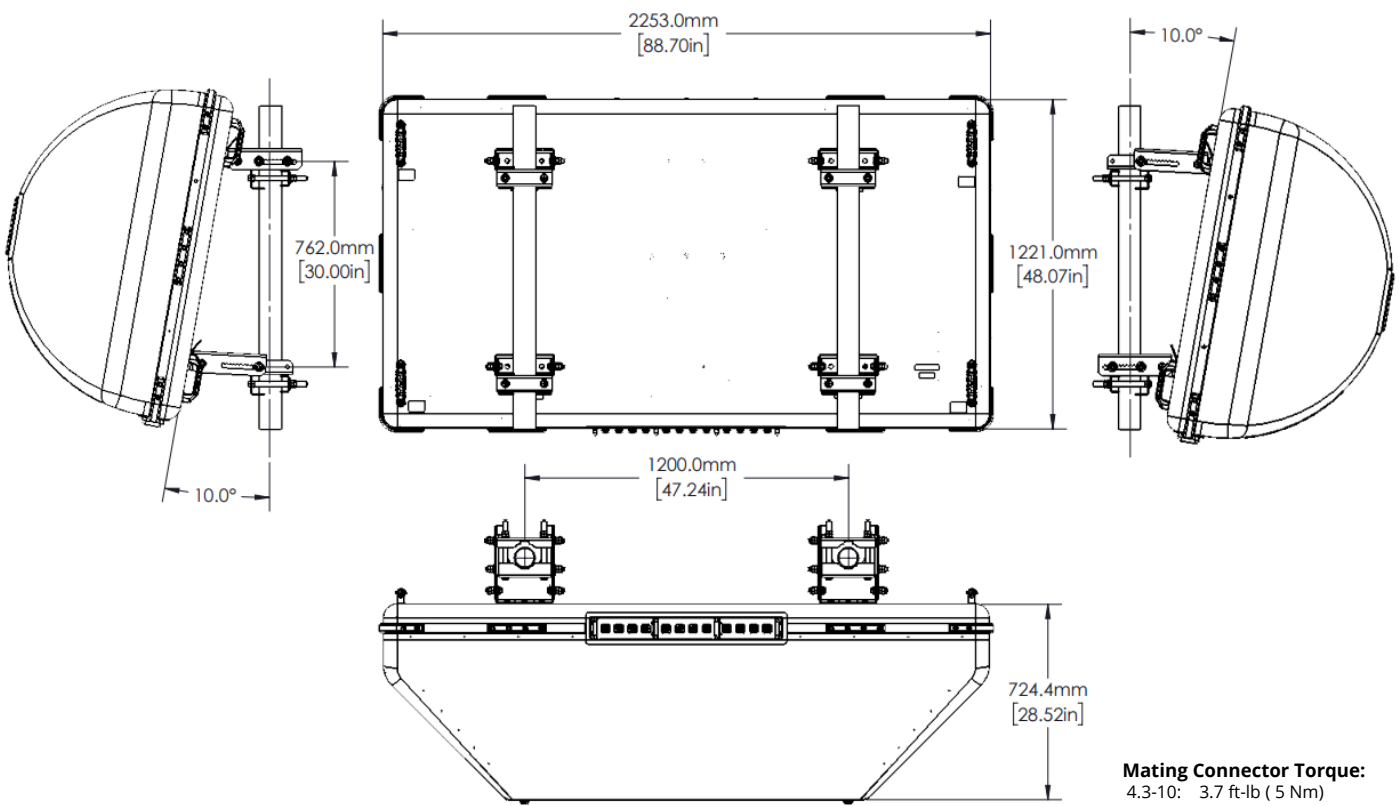
Frequency Range	Ports	Beam Assignment	AZ Beam Direction	Downtilt
617-960 MHz	1 - 2	LB1	-46° L	16° Fixed
617-960 MHz	3 - 4	LB2	-26° L	16° Fixed
617-960 MHz	5 - 6	LB3	-8° L	16° Fixed
617-960 MHz	7 - 8	LB4	+8° R	16° Fixed
617-960 MHz	9 - 10	LB5	+26° R	16° Fixed
617-960 MHz	11 - 12	LB6	+46° R	16° Fixed

2D Antenna Patterns



RFD#: 8038; Revision: R3; 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)

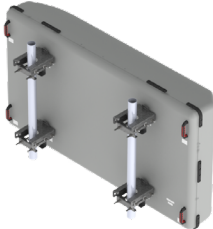
* Wind load based on calculation according to TIA-222-H, using flat panel for rear and side and using full cylinder for front

RFD#: 8038; Revision: R3; Release Date: October 14, 2025;

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	GP4812-08038-112

Mounting Brackets & Optional Accessories

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