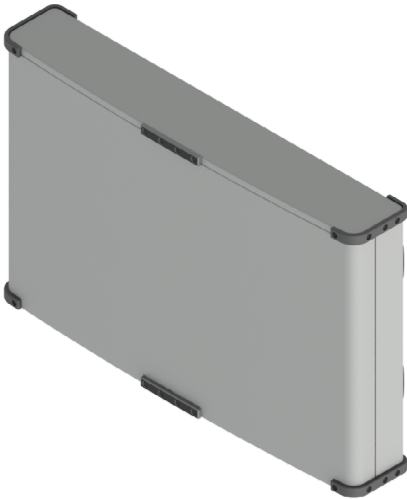


Dual-Band 3/6 Multibeam 2x2 Antenna [698-960 & 1695-2690 MHz]

GP3318-07881

Description:

- 2x2 MIMO 3/6 Beam antenna for high-capacity stadium/venue or special events applications
- 3-beams (6-ports) 698-960 MHz; each beam with 2x2 MIMO capability
- 6-beams (12-ports) 1695-2690 MHz; each beam with 2x2 MIMO capability
- 6° Fixed Electrical Downtilt in all bands
- Patent pending technology allows for stable azimuth beam directions over the entire operating frequency band
- Excellent alternative to large lens-based multibeam antennas
- External ruggedized features of the antenna enclosure provide added protection during the installation process
- Optional heavy-duty transport case to prevent damage for multiple deployment scenarios



2x2 MIMO 698-960 & 1695-2690 MHz
3/6 Beam Antenna

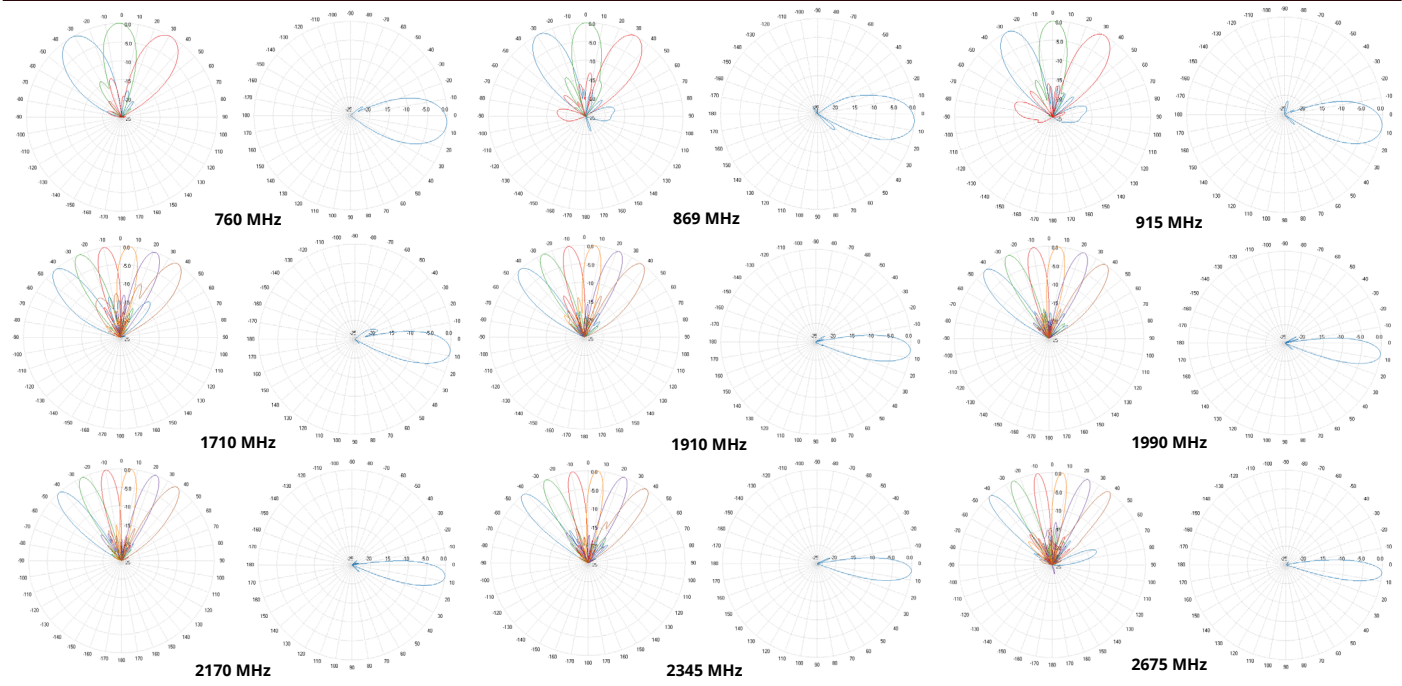
Electrical Specifications								
Frequency Band [MHz]	698-806	806-896	896-960	1695-1910	1930-2020	2110-2200	2305-2360	2496-2690
Gain, max. (dBi)	15.9	16.2	16.4	20.5	21.1	21.8	21.7	21.5
Gain, avg. (dBi)	15.1	14.9	15.3	18.3	19.8	20.8	20.5	20.1
Azimuth Beamwidth (°)	20.6	18.1	16.6	11.7	10.6	9.9	9.2	8.3
Azimuth Beam Spacing (°)	30			16				
Azimuth Beam Crossover (dB)	9.5	11.2	13.5	6.8	8.3	9.8	11.6	13.7
Elevation Beamwidth (°)	26.8	23.8	22.1	15.9	14.5	13.2	12.1	11.3
Electrical Downtilt (°)	6 FET							
First Upper Sidelobe Suppression (dB)	20	17	16	20	20	21	19	17
Front-to-Back Ratio, 180° (dB)	37	35	34	38	39	39	38	37
Cross-Polar Discr. @ Boresight (dB)	26	20	16	23	24	28	23	24
VSWR / RL (dB)	1.5:1 / 14.0							
Port-to-Port Isolation, Intrabeam (dB)*	25							
Port-to-Port Isolation, Interbeam (dB)**	18	17	16	16	19	14.5	17	
PIM @ 2x43 dBm (dBc)	-153							
Max Power per Port (W)	100							
Polarization (°)	Dual slant 45 (±45)							
Impedance (Ω)	50							

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

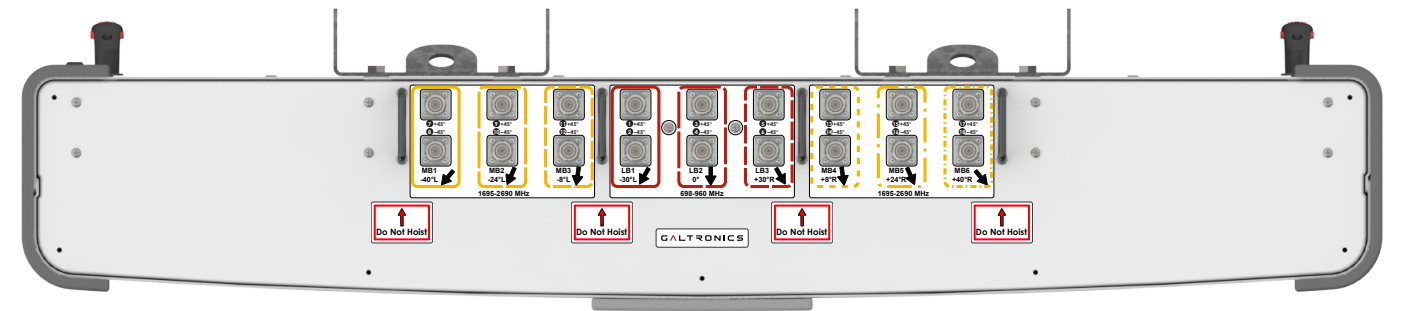
** Port-port isolation between any combination of ports between different beams

RFD#: 07881 ; Revision: R5 ; Release Date: September 26, 2024;

2D Antenna Patterns

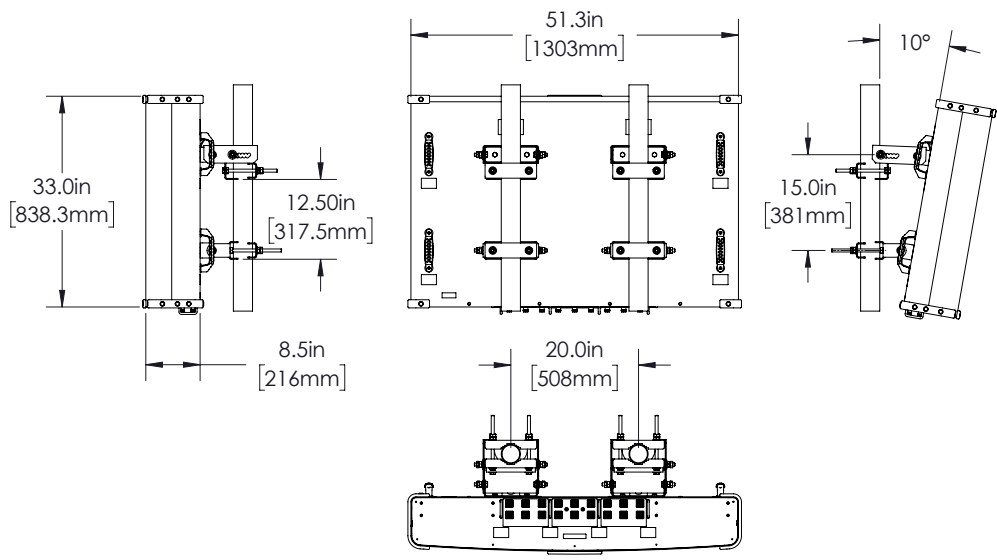


Bottom Plate & Port Designation Details



Port/Beam Designator Table				
Frequency Range	Ports	Beam Assignment	AZ Beam Direction	Downtilt
698-960 MHz	1-2	LB1	-30° L	6° Fixed
698-960 MHz	3-4	LB2	0°	6° Fixed
698-960 MHz	5-6	LB3	+30° R	6° Fixed
1695-2690 MHz	7-8	MB1	-40° L	6° Fixed
1695-2690 MHz	9-10	MB2	-24° L	6° Fixed
1695-2690 MHz	11-12	MB3	-8° L	6° Fixed
1695-2690 MHz	13-14	MB4	+8° R	6° Fixed
1695-2690 MHz	15-16	MB5	+24° R	6° Fixed
1695-2690 MHz	17-18	MB6	+40° R	6° Fixed

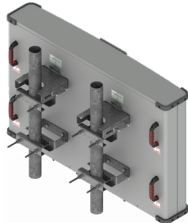
Antenna Outline



Mechanical Specifications	
Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	72 lbs (32.7 kg)
Antenna Bracket Weight	15.3 lbs (6.9 kg), 2x Brackets Per Antenna
Antenna Dimension (Height x Width x Depth)	33.0" (838.3 mm) x 51.3" (1303 mm) x 8.5" (216 mm)
Input Connector Type	18 x 4.3/10 (F)
Radome Material	ASA w/Heavy Duty Top/Bottom Caps
Radome Color	Gray
Wind Load, Front (@ 150 km/h)*	1295 N / 291 lbf
Wind Load, Back (@ 150 km/h)*	1346 N / 303 lbf
Wind Load, Side (@ 150 km/h)*	234 N / 53 lbf
Wind Load, Maximum (@ 150 km/h)*	1415 N / 318 lbf
Wind Survival Rating	150 mph (241 km/h)

* Wind load based on calculations according to TIA-222-H

Part Numbers & Ordering Options			
Description	Color	Mounting Kit	Part Number
2x2 MIMO 698-960 & 1695-2690 MHz 3/6 Beam Antenna with 18x 4.3-10 (F) Connectors	Gray	Includes 2x MK-07915 mounting kit assemblies	GP3318-07881-112
2x2 MIMO 698-960 & 1695-2690 MHz 3/6 Beam Antenna with 18x 4.3-10 (F) Connectors and Heavy Duty Transport Case	Gray	Includes 2x MK-07915 mounting kit assemblies	GP3318-07881-212

Mounting Brackets & Optional Accessories	
Description:	Part Number:
Heavy Duty Mounting Bracket (wind speed of 150 mph) [2x Included] The MK-07915 standard mounting bracket allows for easy installation of this Galtronics Multibeam Antenna. It provides 0°-10° of mechanical downtilt adjustability, and fits pole diameters ranging from 2" to 5". Note: The MK-07915 mounting bracket can also be ordered separately.	 MK-07915