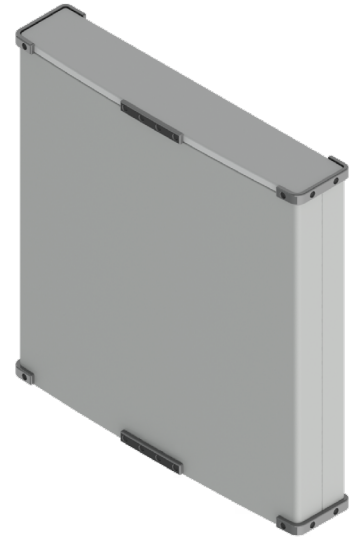


Dual-Band 6/6 Multibeam 2x2 Antenna [1695-2690/3300-4000 MHz]

GP4224-07882

Description:

- 2x2 MIMO 6/6 beam antenna for high-capacity stadium/venue or special events applications
- 6-beams (12-ports) 1695-2690 MHz; each beam with 2x2 MIMO capability
- 6-beams (12-ports) 3300-4000 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 1695-2690 & 3300-4000 MHz 6/6 Beam Antenna

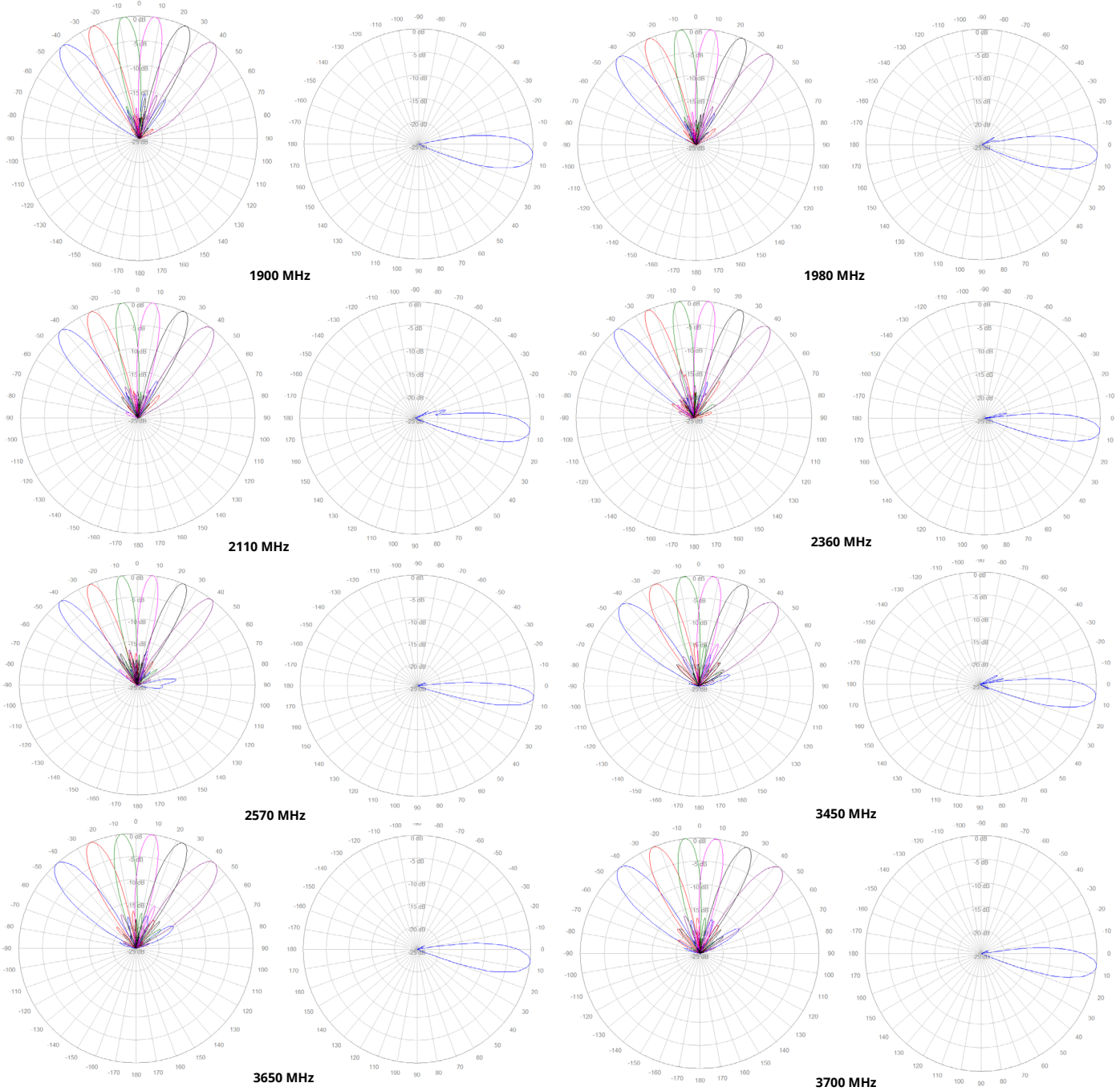
Electrical Specifications								
Frequency Band [MHz]	1695-1910	1930-2020	2110-2200	2305-2360	2496-2690	3300-3550	3550-3700	3700-4000
Gain, max. (dBi)	19.8	20.3	21.0	21.1	21.7	20.5	20.7	21.0
Gain, avg. (dBi)	18.5	19.1	20.1	19.8	20.6	19.1	19.3	19.6
Azimuth Beamwidth (°)	11.1	10.2	9.9	9.2	8.3	11.7	11.1	10.6
Azimuth Beam Spacing (°)	16							
Azimuth Beam Crossover (dB)	7.9	9.3	9.9	12.3	14.1	7.9	8.8	9.6
Elevation Beamwidth (°)	15.3	14.3	12.8	11.9	10.5	13.4	12.8	12.4
Electrical Downtilt (°)	6 FET (per each 2x2 beam cluster)							
First Upper Sidelobe Suppression (dB)	22	21	18	20	22	19		
Front-to-Back Ratio, 180° (dB)	39	39	40	40	38	37		
Cross-Pol Discrimination @ Boresight (dB)	23	26	26	22	25	25		
VSWR / RL (dB)	1.31:1 / 17.5	1.33:1 / 17.0		1.27:1 / 18.5	1.40:1 / 15.5	1.5:1 / 14.0		
Port-to-Port Isolation, Intrabeam (dB)*	29		28		27	25		
Port-to-Port Isolation, Interbeam (dB)**	17.5	18.0	22.0	14.5	16.5	14.0		
PIM @ 2x43 dBm (dBc)	-153					-145		
Max Power per Port (W)	100							
Polarization (°)	Dual slant 45 (±45)							

* 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

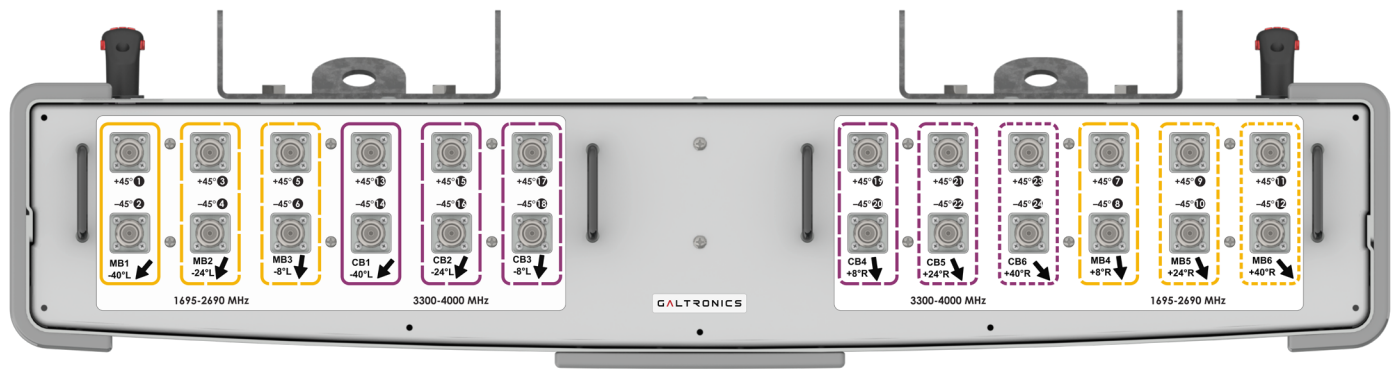
RFD#: 7882 ; Revision: R3 ; Release Date: August 11, 2023;

2D Antenna Patterns



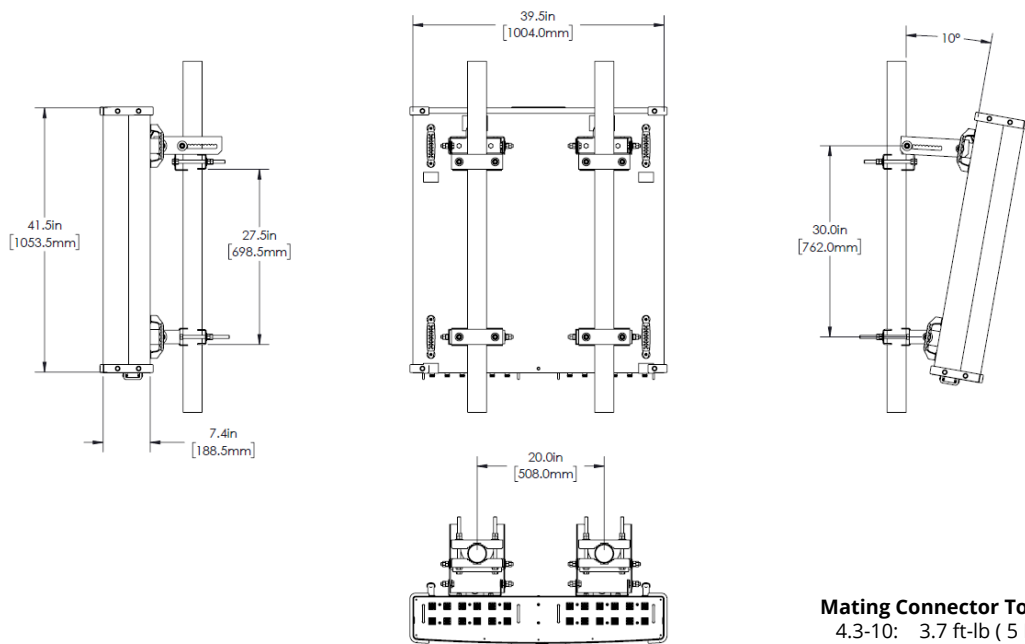
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Bottom Plate & Port Designation Details



Port/Beam Designator Table				
Frequency Range	Ports	Beam Assignment	AZ Beam Direction	Downtilt
1695-2690 MHz	1 - 2	MB1	-40° L	6° Fixed
1695-2690 MHz	3 - 4	MB2	-24° L	6° Fixed
1695-2690 MHz	5 - 6	MB3	-8° L	6° Fixed
1695-2690 MHz	7 - 8	MB4	+8° R	6° Fixed
1695-2690 MHz	9 - 10	MB5	+24° R	6° Fixed
1695-2690 MHz	11 - 12	MB6	+40° R	6° Fixed
3300-4000 MHz	13 - 14	CB1	-40° L	6° Fixed
3300-4000 MHz	15 - 16	CB2	-24° L	6° Fixed
3300-4000 MHz	17 - 18	CB3	-8° L	6° Fixed
3300-4000 MHz	19 - 20	CB4	+8° R	6° Fixed
3300-4000 MHz	21 - 22	CB5	+24° R	6° Fixed
3300-4000 MHz	23 - 24	CB6	+40° R	6° Fixed

Antenna Outline



Mating Connector Torque:
4.3-10: 3.7 ft-lb (5 Nm)

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Mechanical Specifications

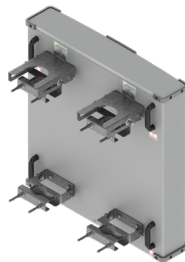
Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	63.9 lbs (29.0 kg)
Antenna Bracket Weight	13.4 lbs (6.1 kg), 2x Brackets Per Antenna
Antenna Dimension (Height x Width x Depth)	41.5" (1053.4 mm) x 39.5" (1004.0 mm) x 7.4" (188.5 mm)
Input Connector Type	24x 4.3/10 (F)
Radome Material	ASA w/Heavy Duty Top/Bottom Caps
Radome Color	Gray
Wind Load, Front (@ 150 km/h)*	1296.4 N / 291.0 lbf
Wind Load, Side (@ 150 km/h)*	275.1 N / 62.0 lbf
Wind Load, Maximum (@ 150 km/h)*	1375.0 N / 309.0 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 1695-2690 & 3300-4000 MHz 6/6 Beam Antenna with 24x 4.3-10 (F) Connectors	Gray	Includes 2x MK-06989 mounting kit assemblies	GP4224-07882-112
2x2 MIMO 1695-2690 & 3300-4000 MHz 6/6 Beam Antenna with 24x 4.3-10 (F) Connectors and Heavy Duty Transport Case	Gray	Includes 2x MK-06989 mounting kit assemblies	GP4224-07882-212

Mounting Brackets & Optional Accessories

Description:	Part Number:
Heavy Duty Mounting Bracket (wind speed of 150 mph) [2x Included] The MK-6989 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-06989 mounting bracket can also be ordered separately.	 MK-06989

RFD#: 7882 ; Revision: R3 ; Release Date: August 11, 2023;