

Dual-Band 3/6 Multibeam 4x4 Antenna [698-960 & 1695-2690 MHz]

GP6436-B7695

Description:

- 4x4 MIMO 3/6 Beam antenna for high-capacity stadium/venue or special events applications
- 3-beams (12-ports) 698-960 MHz; each beam with 4x4 MIMO capability
- 6-beams (24-ports) 1695-2690 MHz; each beam with 4x4 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



4x4 MIMO 698-960 & 1695-2690 MHz
3/6 Beam Antenna

Electrical Specifications

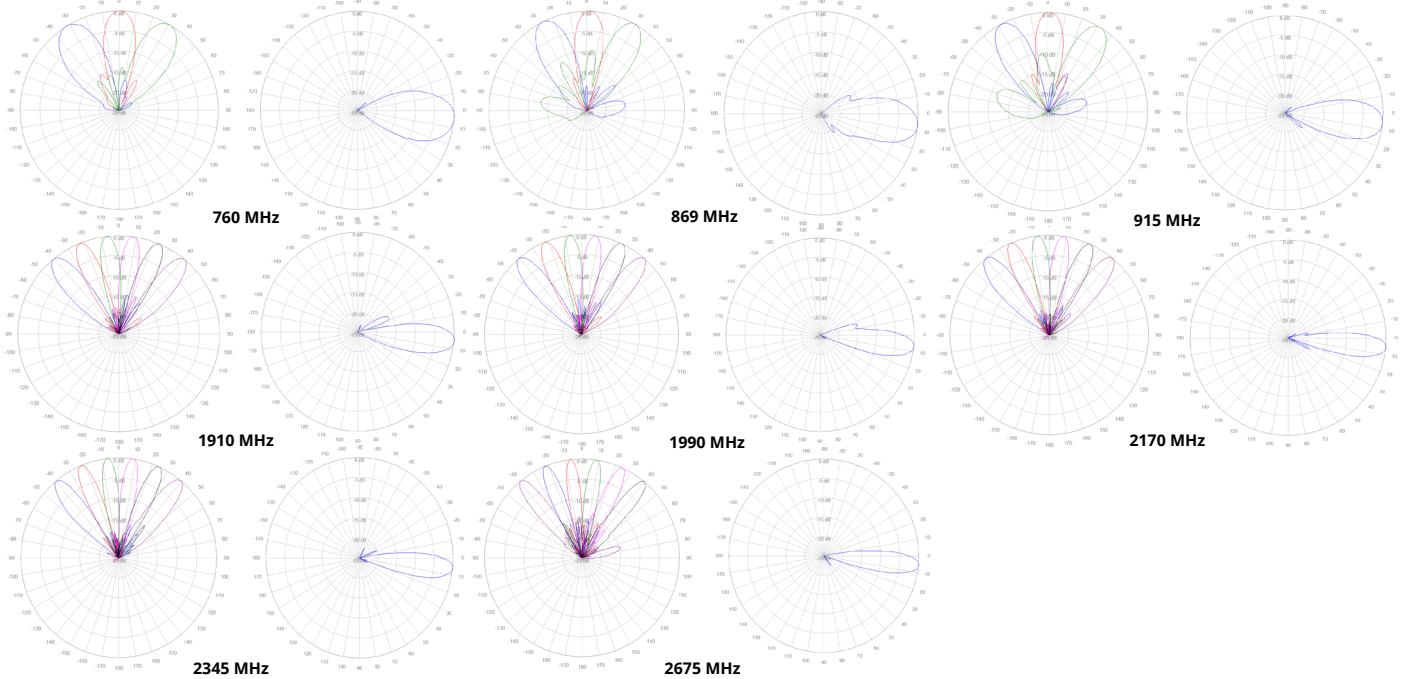
Frequency Band [MHz]	698-806	806-896	896-960	1695-1910	1930-2020	2110-2200	2305-2360	2496-2690
Gain, max. (dBi)	16.2	16.5	16.7	20.2	21.0	21.5	21.7	21.3
Gain, avg. (dBi)	14.6	14.7	14.9	17.5	18.9	19.9	19.7	19.6
Azimuth Beamwidth (°)	19.8	17.4	16.2	11.4	10.4	9.8	9.0	8.3
Azimuth Beam Spacing (°)	30			16				
Azimuth Beam Crossover (dB)	7.5	8.5	9	7.1	8.4	9.4	11.6	12.9
Elevation Beamwidth (°)	26.9	23.7	22.0	15.8	14.1	13.0	11.7	11.2
Electrical Downtilt (°)	6 FET							
First Upper Sidelobe Suppression (dB, avg.)	21		18	18				
Front-to-Back Ratio, 180° (dB, avg.)	34				36			
Cross-Polar Discr. @ Boresight (dB, avg.)	20							
VSWR (max.) / RL (dB, min.)	1.5:1 / 14.0							
Port-to-Port Isolation, Intrabeam (dB, min.)*	25							
Port-to-Port Isolation, Interbeam (dB, min.)**	18	17		16	16	19	14.5	17
PIM @ 2x43 dBm (dBC, max.)	-153							
Max Power per Port (W)	100							
Polarization (°)	Dual slant 45 (±45)							
Impedance (Ω)	50							

* Port-port isolation between each cluster of four ports in the same 4x4 MIMO beam

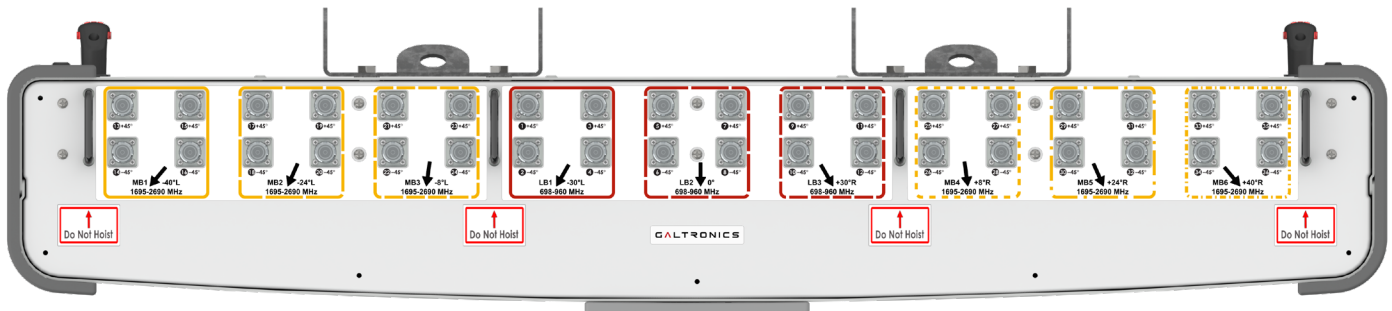
** Port-port isolation between any combination of ports between different beams

RFD#: B7695 ; Revision: R1 ; Release Date: November 24, 2022;

2D Antenna Patterns



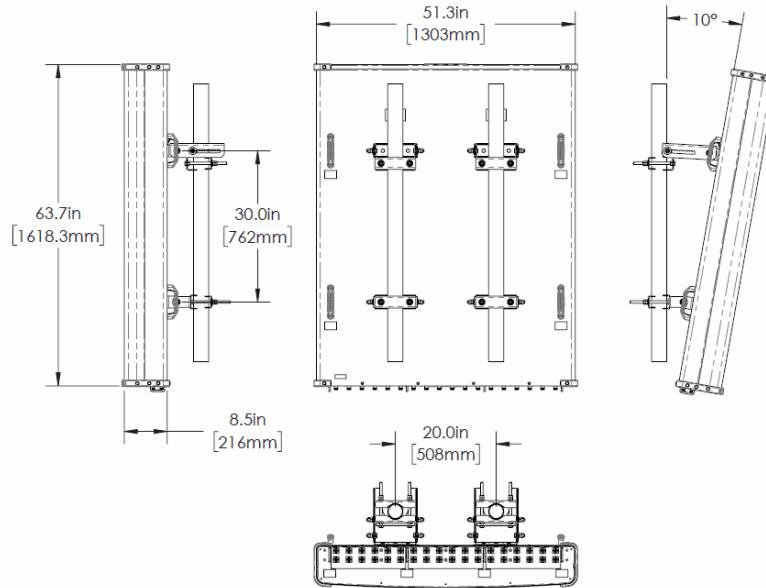
Bottom Plate & Port Designation Details



Port/Beam Designator Table

Frequency Range	Ports	Beam Assignment	AZ Beam Direction	Downtilt
698-960 MHz	1-4	LB1	-30° L	6° Fixed
698-960 MHz	5-8	LB2	0° C	6° Fixed
698-960 MHz	9-12	LB3	+30° R	6° Fixed
1695-2690 MHz	13-16	MB1	-40° L	6° Fixed
1695-2690 MHz	17-20	MB2	-24° L	6° Fixed
1695-2690 MHz	21-24	MB3	-8° L	6° Fixed
1695-2690 MHz	25-28	MB4	+8° R	6° Fixed
1695-2690 MHz	29-32	MB5	+24° R	6° Fixed
1695-2690 MHz	33-36	MB6	+40° R	6° Fixed

Antenna Outline



Mechanical Specifications

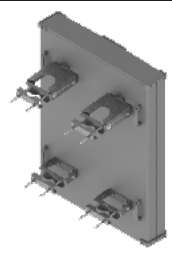
Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	128 lbs (58 kg)
Antenna Bracket Weight	13.4 lbs (6.1 kg), 2x Brackets Per Antenna
Antenna Dimension (Height x Width x Depth)	63.7" (1618.3 mm) x 51.3" (1303 mm) x 8.5" (216 mm)
Input Connector Type	36 x 4.3/10 (F)
Radome Material	ASA w/Heavy Duty Top/Bottom Caps
Radome Color	Gray
Wind Load, Front (@ 150 km/h)*	2501 N / 562 lbf
Wind Load, Back (@ 150 km/h)*	2598 N / 584 lbf
Wind Load, Side (@ 150 km/h)*	504 N / 113 lbf
Wind Load, Maximum (@ 150 km/h)*	2731 N / 614 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
4x4 MIMO 698-960 & 1695-2690 MHz 3/6 Beam Antenna with 36x 4.3-10 (F) Connectors	Gray	Includes 2x MK-06989 mounting kit assemblies	GP6436-B7695-1R2
4x4 MIMO 698-960 & 1695-2690 MHz 3/6 Beam Antenna with 36x 4.3-10 (F) Connectors and Heavy Duty Transport Case	Gray	Includes 2x MK-06989 mounting kit assemblies	GP6436-B7695-2R2

Mounting Brackets & Optional Accessories

Description:	Part Number:
<p>Heavy Duty Mounting Bracket (wind speed of 150 mph) [2x Included]</p> <p>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 2.375" to 4.5".</p> <p>Note: The MK-06989 mounting bracket can also be ordered separately.</p>	 <p>MK-06989</p>