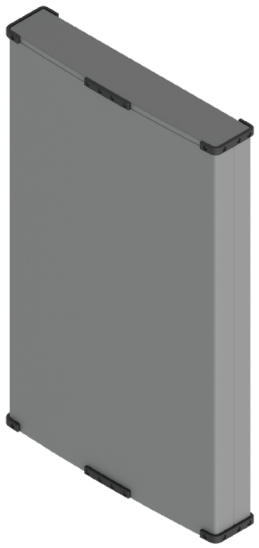
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Dual-Band 6/6 Multibeam 90° Sector 4x4 Antenna with RET [1695-2690/3300-4000 MHz]

GP6548-08030

Description:

- 4x4 MIMO 6/6 beam antenna for high-capacity stadium/venue or special events applications
- 6-beam (24-port) 1695-2690 MHz; each beam with 4x4 MIMO capability
- 6-beam (24-port) 3300-4000 MHz; each beam with 4x4 MIMO capability
- Remote Electrical Tilt (RET) with independent control for each beam
- 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
- Optional heavy-duty transport case to prevent damage for multiple deployment scenarios



Electrical Specifications

Frequency Band [MHz]	1695-1910	1930-2020	2110-2200	2305-2360	2496-2690	3300-3550	3550-3700	3700-4000
Gain, max. (dBi)	20.8	20.9	21.6	21.7	22.1	21.0	21.2	21.2
Gain, avg. (dBi)	19.4	20.0	20.5	20.1	20.9	19.5	19.7	19.7
Azimuth Beamwidth (°)	11.7	10.8	10.1	9.4	8.5	11.5	11.0	10.4
Azimuth Beam Spacing (°)	16							
Azimuth Beam Crossover (dB)	7.2	8.4	9.7	11.2	13.3	7.2	8.0	8.8
Elevation Beamwidth (°)	14.8	13.5	12.3	11.2	10.5	13.8	13.1	12.3
Electrical Downtilt (°)	0-10					0-10		
First Upper Sidelobe Suppression (dB)	19.3	18.8	17.4	18.2	20.7	22.1	22.5	21.1
Cross-Pol Discrimination @ Boresight (dB)	23	25	27	23	25	20	24	26
VSWR / RL (dB)	1.5:1 / 14.0							
Port-to-Port Isolation, Intrabeam (dB)*	25							
Port-to-Port Isolation, Interbeam (dB)**	15							
PIM @ 2x43 dBm, dBc (max.)	-153					-145		
Total Input Power (W)	3000							
Max Power per Port (W)	200					150		
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#: 8030; Revision: R1; Release Date: September 03, 2026;

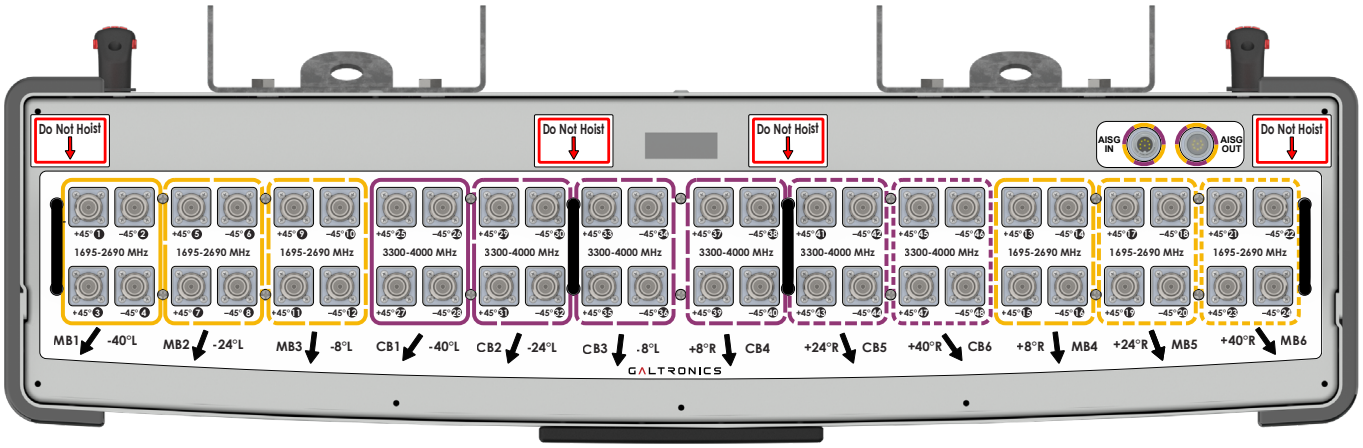
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Electrical Specifications - BASTA

Frequency Band [MHz]	1695-1910	1930-2020	2110-2200	2305-2360	2496-2690	3300-3550	3550-3700	3700-4000
Gain Over All Tilts, avg. (dBi)	19.4	20.0	20.5	20.1	20.9	19.6	19.8	19.8
Gain Over All Tilts Tolerance (dB)	1.3	1.0	1.1	2.5	1.4	1.7	1.7	1.4
AZ Beamwidth Tolerance (°)	2.0	1.8	1.7	1.8	1.3	1.9	1.7	1.7
EL Beamwidth Tolerance (°)	1.2	0.5	0.4	0.8	0.6	0.8	0.7	1.0
Upper Sidelobe Suppression, Peak to +20° (dB)	18.2	15.7	15.3	15.2	17.5	17.3	19.0	18.4
Front-to-Back Ratio, Total Power, +/-30° (dB)	37	37	38	34	35	33	34	34
Cross-Polar Discrimination at Boresight (dB)	19	22	22	15	22	16	19	20
Azimuth Beam Peak Tolerance (°)	0.4	0.3	0.4	0.7	0.5	2.2	2.1	2.1
Azimuth Beam Crossover Tolerance (dB)	1.1	1.0	1.4	2.9	2.7	3.4	3.8	4.5

Bottom Plate & Port Designation Details



Port/Beam Designator Table

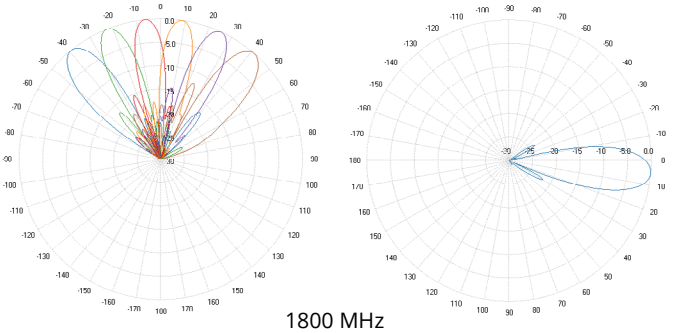
Frequency Range	Ports	Beam Assignment	AZ Beam Direction	Downtilt
1695-2690 MHz	1 - 4	MB1	-40° L	0°-10°
1695-2690 MHz	5 - 8	MB2	-24° L	0°-10°
1695-2690 MHz	9 - 12	MB3	-8° L	0°-10°
1695-2690 MHz	13 - 16	MB4	+8° R	0°-10°
1695-2690 MHz	17 - 20	MB5	+24° R	0°-10°
1695-2690 MHz	21 - 24	MB6	+40° R	0°-10°
3300-4000 MHz	25 - 28	CB1	-40° L	0°-10°
3300-4000 MHz	29 - 32	CB2	-24° L	0°-10°
3300-4000 MHz	33 - 36	CB3	-8° L	0°-10°
3300-4000 MHz	37 - 40	CB4	+8° R	0°-10°
3300-4000 MHz	41 - 44	CB5	+24° R	0°-10°
3300-4000 MHz	45 - 48	CB6	+40° R	0°-10°

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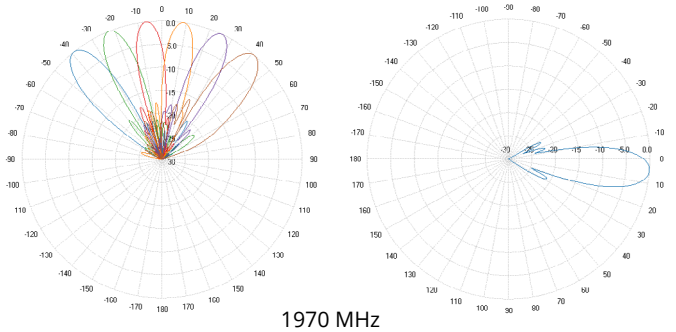
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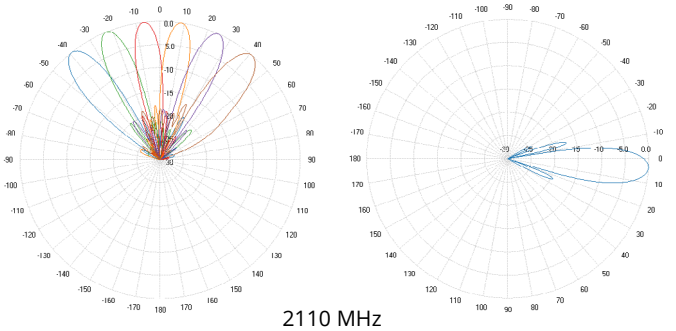
2D Antenna Patterns at Mid-Tilt



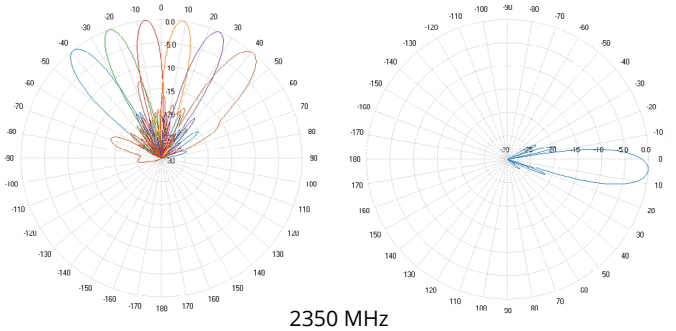
1800 MHz



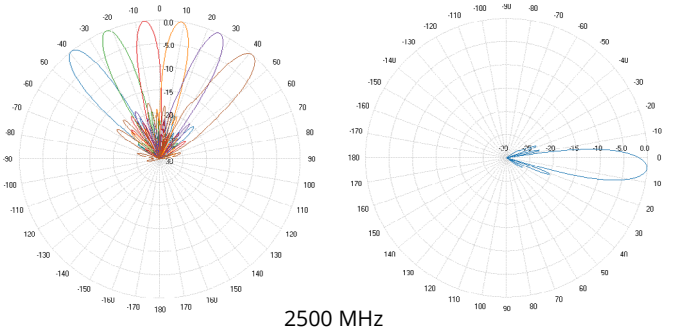
1970 MHz



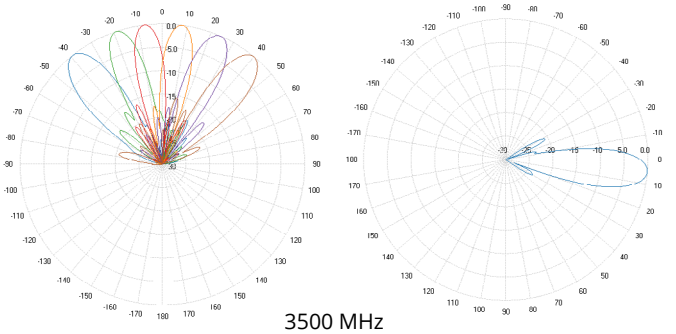
2110 MHz



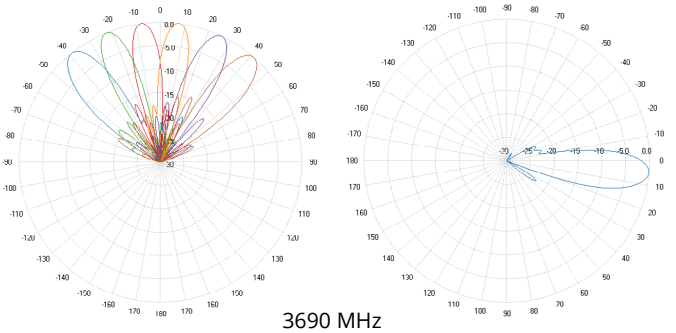
2350 MHz



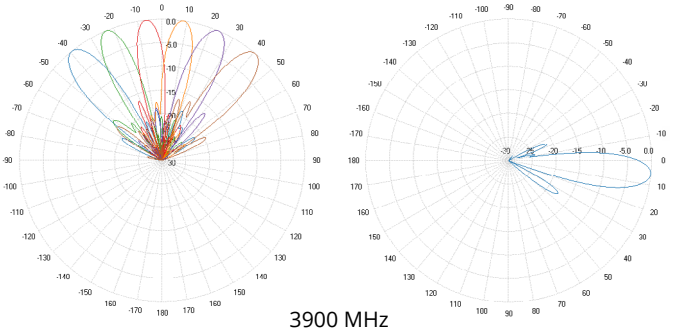
2500 MHz



3500 MHz



3690 MHz



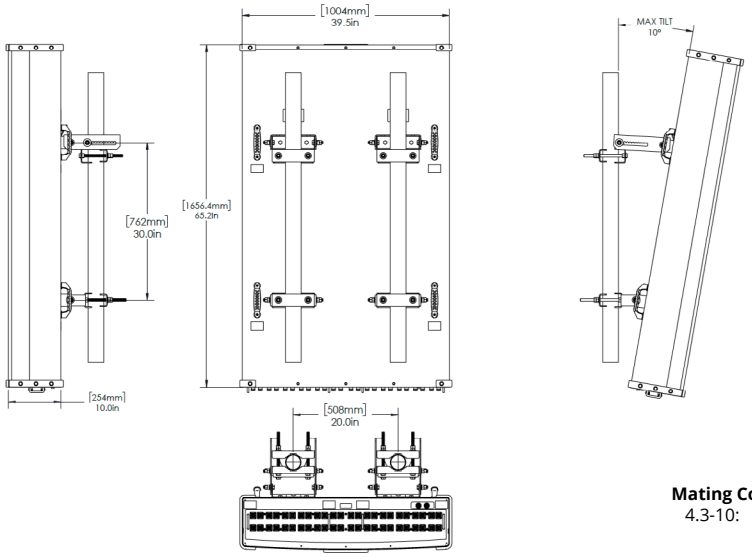
3900 MHz

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Antenna Outline



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

Mechanical Specifications

Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	178.6 lbs (81.0 kg)
Antenna Bracket Weight	13.4 lbs (6.1 kg), 2x Brackets per Antenna
Antenna Dimension (Height x Width x Depth)	65.2" (1656.4 mm) x 39.5" (1004.0 mm) x 10.0" (254.0 mm)
Input Connector Type	48x 4.3/10(F)
Radome Material	ASA w/Heavy Duty Top/Bottom Caps
Radome Color	Gray
Wind Load, Front (@ 150 km/h)*	2038 N / 458 lbf
Wind Load, Side (@ 150 km/h)*	600 N / 135 lbf
Wind Load, Maximum (@ 150 km/h)*	2192 N / 493 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 1695-2690 & 3300-4000 MHz 6/6 beam antenna with 48x 4.3-10(F) connectors	Gray	Includes 2x MK-06989 Mounting Kit Assemblies	GP6548-08030-112
4x4 MIMO 1695-2690 & 3300-4000 MHz 6/6 beam antenna with 48x 4.3-10(F) connectors and Heavy Duty Transport Case	Gray	Includes 2x MK-06989 Mounting Kit Assemblies	GP6548-08030-212

Mounting Brackets & Optional Accessories

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

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