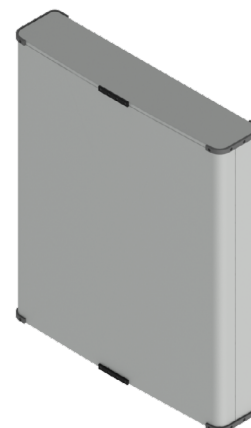


Mid-Band 6-Beam 90° Sector 4x4 Antenna with RET [1695-2690 MHz]

GP5624-08184

Description:

- 4x4 MIMO antenna for high-capacity stadium/venue or special event applications
- 6-beam (24-port) 1695-2690 MHz; each beam with 4x4 MIMO capability
- Patent pending technology allows for stable azimuth beam directions over the entire operating frequency band
- Excellent alternative to large lens-based multibeam antennas
- 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
Input Connector Type	24 x 4.3-10 (F)				
Gain, max. (dBi)	21.5	22.0	22.4	22.0	22.8
Gain, avg. (dBi)	19.8	20.6	21.0	20.1	21.2
Azimuth Beamwidth (°)	11.6	10.8	10.0	9.4	8.4
Azimuth Beam Spacing (°)	16				
Azimuth Beam Crossover (dB)	7.1	8.2	9.6	11.1	13.6
Elevation Beamwidth (°)	14.7	13.5	12.3	11.3	10.6
Electrical Downtilt Range (°)	0 - 10				
First Upper Sidelobe Suppression (dB)	19.5	19.2	18.1	18.7	20.5
Front-to-Back Ratio, 180° (dB)	45				
Cross-Pol Discrimination@Boresight (dB)	23	25	27	23	23
VSWR /RL (dB)	1.5:1 / 14.0				
Port-to-Port Isolation, Intrabeam (dB)*	30	28	26	25	25
Port-to-Port Isolation, Interbeam (dB)**	16	16	16	14	16
PIM @ 2x43 dBm (dBc)	-153				
Max Power / Port (W)	200				
Max Total Power (W)	3000				
Polarization (°)	Dual slant 45 (±45)				
Impedance (Ω)	50				

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

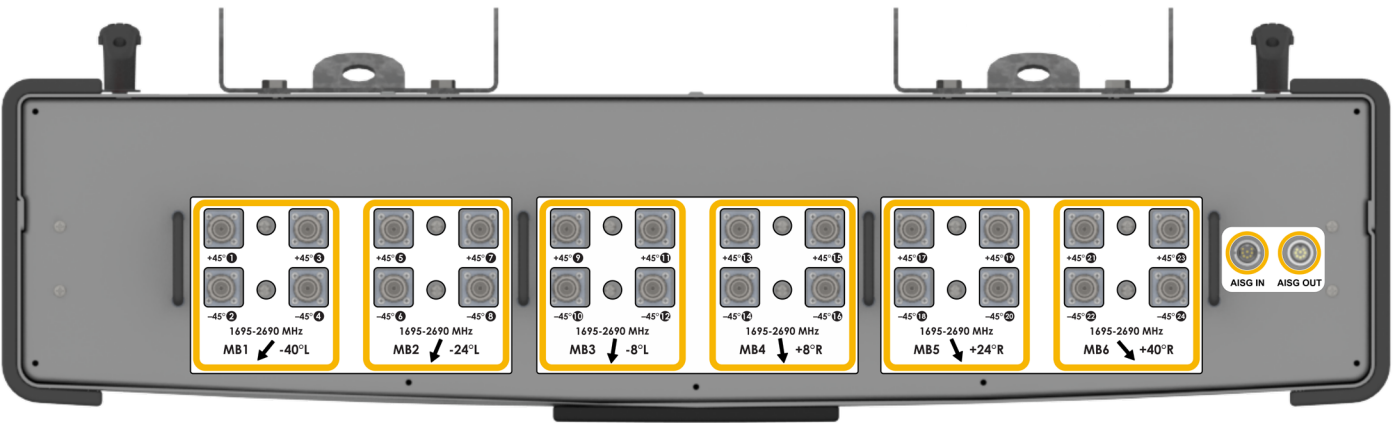
** Port-port isolation between any combination of ports between different beams

RFD#: 8184 ; Revision: R1 ; Release Date: September 02, 2025;

Electrical Specifications - BASTA

Frequency Band [MHz]	1695-1910	1930-2020	2110-2200	2305-2360	2496-2690
Gain Over All Tilts, avg. (dBi)	19.8	20.5	21.0	20.1	21.0
Gain Over All Tilts Tolerance (dB)	1.3	1.0	1.0	2.5	1.3
AZ Beamwidth Tolerance (°)	1.9	1.7	1.6	1.6	1.2
EL Beamwidth Tolerance (°)	1.1	0.5	0.4	0.9	0.5
Upper Sidelobe Suppression, Peak to +20° (dB)	18.4	16.3	16.1	15.3	17.3
Front-to-Back Ratio, Total Power, +/-30° (dB)	36	36	36	34	34
Cross-Polar Discrimination at Boresight (dB)	18.7	21.3	22.2	14.4	19.1
Azimuth Beam Peak Tolerance (°)	0.5	0.4	0.5	0.7	0.5
Azimuth Beam Crossover Tolerance (dB)	1.0	1.0	1.3	2.1	2.8

Bottom Plate & Port Designation Details

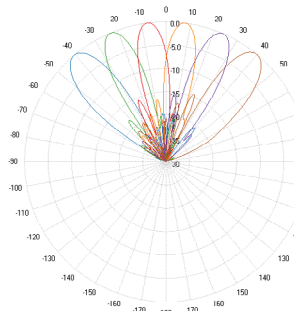


Port/Beam Designator Table

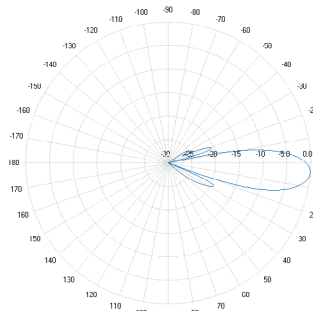
Frequency Range	Ports	Beam ID	AZ Beam Direction	Downtilt	Actuator ID	Controller ID
1695-2690 MHz	1 - 4	MB1	-40° L	0-10°	R0	GP5624-08184
1695-2690 MHz	5 - 8	MB2	-24° L	0-10°	R1	
1695-2690 MHz	9 - 12	MB3	-8° L	0-10°	R2	
1695-2690 MHz	13 - 16	MB4	+8° R	0-10°	R3	
1695-2690 MHz	17 - 20	MB5	+24° R	0-10°	R4	
1695-2690 MHz	21 - 24	MB6	+40° R	0-10°	R5	

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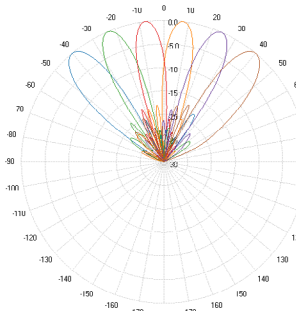
2D Antenna Patterns



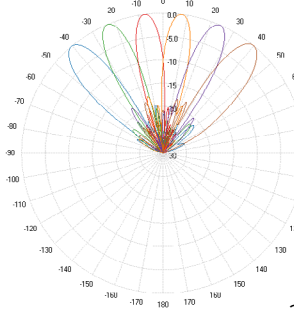
1800 MHz



1970 MHz

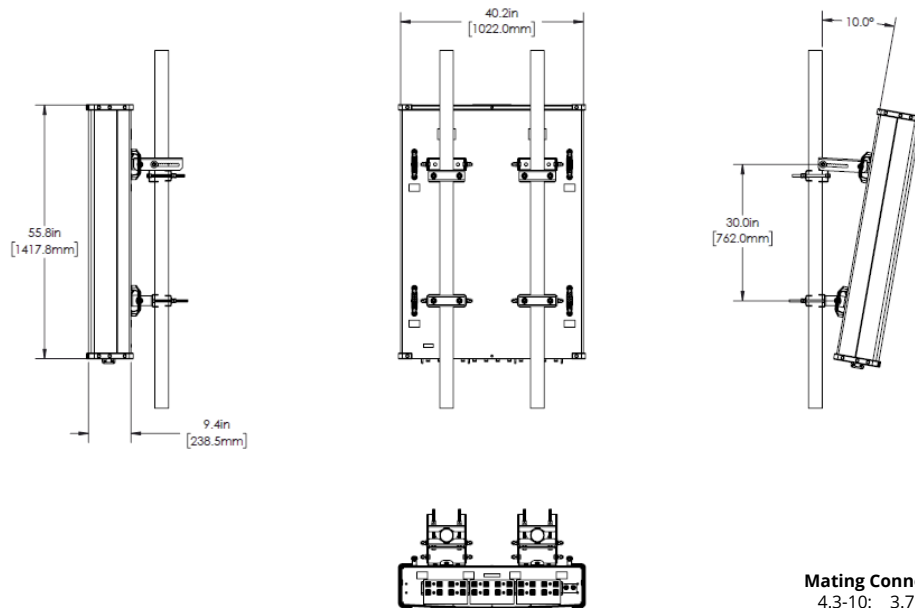


2155 MHz



2523 MHz

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	140 lbs (63.5 kg)
Antenna Bracket Weight (MK-06989)	14.5 lbs (6.6 kg), 2x Brackets Per Antenna
Antenna Bracket Weight (MK-08197)	38.5 lbs (17.5 kg), 2x Brackets Per Antenna
Antenna Dimension (Height x Width x Depth)	55.8" (1417.8 mm) x 40.2" (1022.0 mm) x 9.4" (238.5 mm)
Input Connector Type	24 x 4.3/10 (F)
RET Specification	Internal, AISG 2.0
Radome Material	ASA
Radome Color	Gray
Environmental Rating	Outdoor
Wind Load, Front (@ 150 km/h)*	1777 N / 400 lbf
Wind Load, Rear (@ 150 km/h)*	1809 N / 407 lbf
Wind Load, Side (@ 150 km/h)*	474 N / 107 lbf
Wind Load, Max (@ 150 km/h)*	1901 N / 427 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
Mid-Band 6-Beam 90° Sector 4x4 Antenna with RET 1695-2690 MHz with 24x 4.3-10 (F) Connectors	Gray	Includes 2x MK-06989 Mounting Bracket Assemblies	GP5624-08184-112
Mid-Band 6-Beam 90° Sector 4x4 Antenna with RET 1695-2690 MHz with 24x 4.3-10 (F) Connectors and Heavy Duty Transport Case	Gray	Includes 2x MK-06989 Mounting Bracket Assemblies	GP5624-08184-212

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 2.0" to 4.5". Note: The MK-06989 mounting bracket can also be ordered separately.	 MK-06989
Stadium Mounting Bracket (Indoor application) [1x Optional] The MK-08197 mounting bracket provides ±20° of mechanical downtilt adjustability and allows for easier azimuth adjustment with the single pole configuration. It fits pole diameters ranging from 2.0" to 4.5". Note: The MK-08197 mounting bracket can be ordered separately.	 MK-08197