

## Dual-Band 3-Beam 120° Sector 2x2 Antenna [1695-2690 & 3300-4000 MHz]

### GP4206-08306

#### Description:

- Dual-band multibeam antenna for high-capacity stadium/venue or special events applications
- 3-beam (6-port) wideband covering both 1695-2690 & 3300-4000 MHz
- 6° Fixed Electrical Downtilt in all bands
- Patent pending technology allows for stable azimuth beam directions over the entire operating frequency band



#### Electrical Specifications

Frequency Band [MHz]	1695-1910	1930-2020	2110-2200	2305-2360	2496-2690	3300-3550	3550-3700	3700-4000
Gain, max (dBi)	17.1	17.5	18.2	18.6	19.5	17.5	17.5	17.7
Gain, avg. (dBi)	16.4	16.7	17.6	17.5	18.5	16.6	16.8	16.5
Azimuth Beamwidth (°)	26	25	23	22	21	22	22	21
Azimuth Beamwidth, 10dB (°)	46	44	41	39	36	40	39	37
Azimuth Beam Spacing (°)	33							
Azimuth Beam Crossover (dB)	6	7	8	8	9	9	9	10
Elevation Beamwidth (°)	16	15	13	12	11	14	13	13
Elevation Beamwidth, 10dB (°)	27	26	21	21	19	24	22	22
Electrical Downtilt (°)	6 FET							
First Upper Sidelobe Suppression (dB)	21	19	17	21	20	19	20	20
Front-to-Back Ratio, 180° (dB)	38					30		
Cross-Pol Discrimination @ Boresight (dB)	25					24		
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)	-153					-145		
Max Power per Port (Watt)	100							
Polarization (°)	Dual slant 45 (±45)							
Impedance (Ω)	50							

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

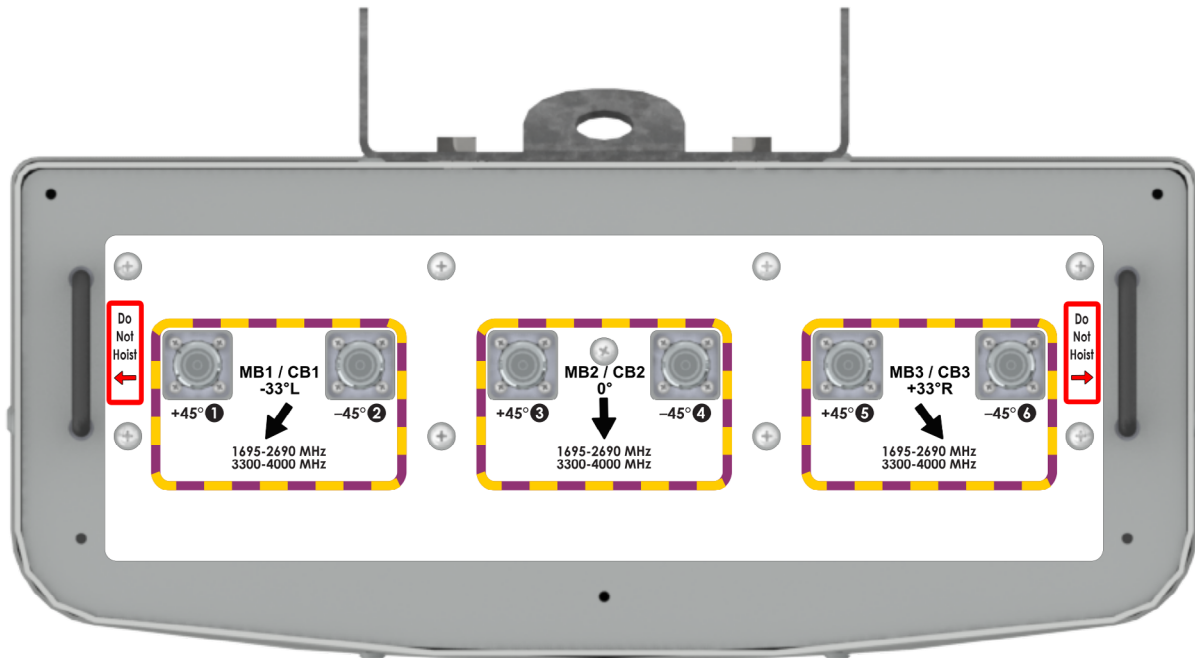
\*\* Port-port isolation between any combination of ports between different beams

RFD#: 8306; Revision: R2; Release Date: March 12, 2026;

## 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)	16.4	16.7	17.6	17.5	18.5	16.6	16.8	16.5
Gain Over All Tilts Tolerance (dB)	0.6	0.5	0.5	1.2	0.8	0.7	0.8	0.9
AZ Beamwidth Tolerance (°)	2.1	1.9	2.2	2.2	2.2	1.6	2.0	3.0
EL Beamwidth Tolerance (°)	0.8	0.6	0.5	0.5	0.7	0.9	0.6	0.8
Upper Sidelobe Suppression, Peak to +20° (dB)	20	16	15	15	18	17	16	19
Front-to-Back Ratio, Total Power, +/-30° (dB)	28	28	29	25	27	20	20	18
Cross-Polar Discrimination at Boresight (dB)	19	22	23	14	20	22	22	18
Azimuth Beam Peak Tolerance (°)	0.8	0.5	0.5	0.8	0.8	0.8	0.6	0.8
Azimuth Beam Crossover Tolerance (dB)	0.6	0.4	0.8	1.3	1.0	0.9	1.2	1.0

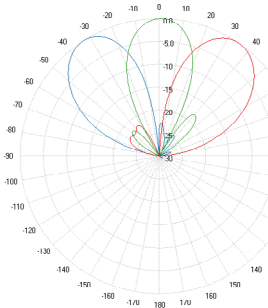
## Bottom Plate & Port Designation Details



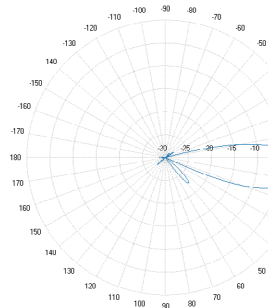
## Port/Beam Designator Table

Frequency Range	Ports	Beam Assignment	AZ Beam Direction	Downtilt
1695-2690 & 3300-4000 MHz	1 - 2	MB1 / CB1	-33° L	6° Fixed
1695-2690 & 3300-4000 MHz	3 - 4	MB2 / CB2	0°	6° Fixed
1695-2690 & 3300-4000 MHz	5 - 6	MB3 / CB3	+33° R	6° Fixed

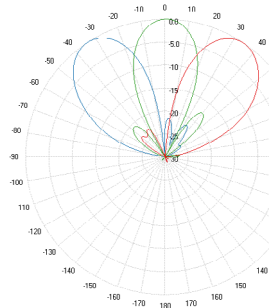
## 2D Antenna Patterns



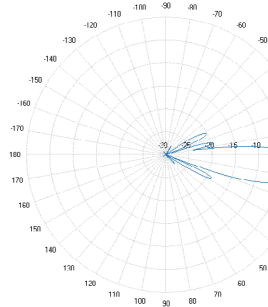
1865 MHz



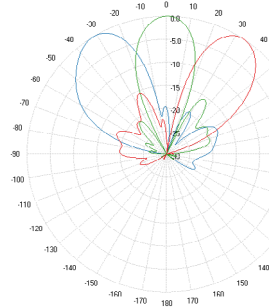
1950 MHz



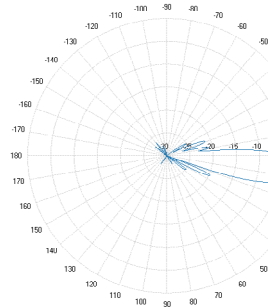
2140 MHz



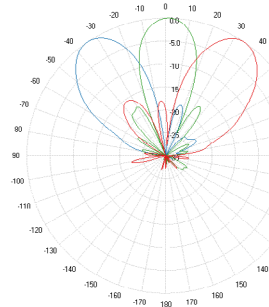
2350 MHz



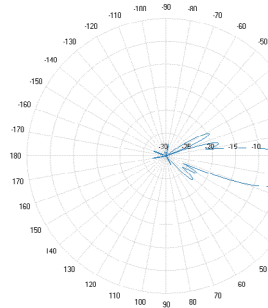
2535 MHz



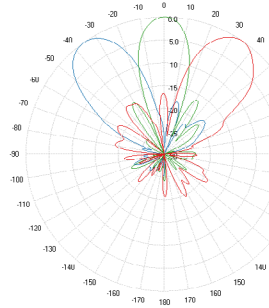
3450 MHz



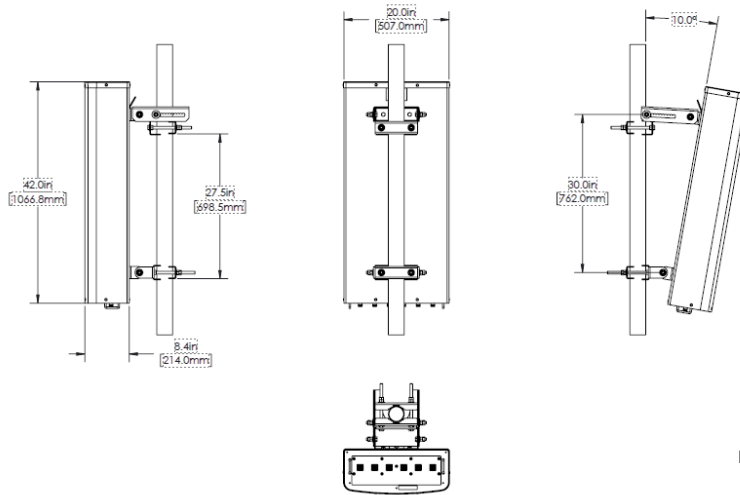
3600 MHz



3840 MHz



## Antenna Outline



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

## Mechanical Specifications


<b>Operating Temperature</b>	-40° to 158°F (-40° to +70°C)
<b>Antenna Weight</b>	39.5 lb (17.9 kg)
<b>Antenna Bracket Weight (MK-06989)</b>	14.5 lb (6.6 kg)
<b>Antenna Dimension (Height x Width x Depth)</b>	42.0" (1066.8 mm) x 20.0" (507.0 mm) x 8.4" (214.0 mm)
<b>Input Connector Type</b>	6x 4.3/10(F)
<b>Radome Material</b>	ASA
<b>Radome Color</b>	Gray
<b>Environment Rating</b>	Outdoor
<b>Wind Load, Front (@ 150 km/h)*</b>	563.8 N / 127.0 Lbf
<b>Wind Load, Back (@ 150 km/h)*</b>	302.0 N / 68.0 Lbf
<b>Wind Load, Side (@ 150 km/h)*</b>	750.1 N / 169.0 Lbf
<b>Wind Survival Rating</b>	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
Dual-band 3-beam 120° sector 2x2 Antenna with 6x 4.3-10(F) Connectors	Gray	Includes MK-06989 mounting kit assembly	GP4206-08306-112

## Mounting Brackets & Optional Accessories

Description	Part Number
<p><b>Heavy Duty Mounting Bracket (wind speed of 150 mph) [Included]</b></p> <p>The MK-06989 standard mounting bracket allows for easy installation of all Galtronics outdoor Base Station Panel Antennas with height between 2.5' and 4'. It provides 0°-10° of mechanical downtilt adjustability, and fits pole diameters ranging from 2.0" to 4.5".</p> <p><b>Note:</b> The MK-06989 mounting bracket can also be ordered separately.</p>	 <p><b>MK-06989 (Included)</b></p>

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