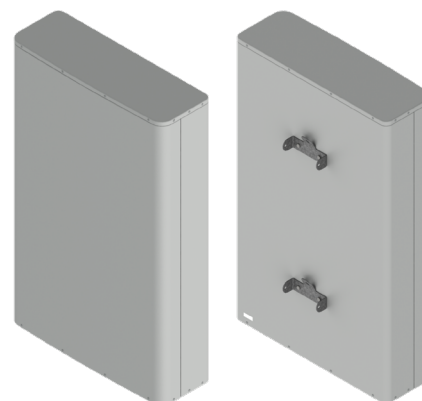


GP5920-08182

Description:

- 2x2 MIMO 2/4/4 beam panel antenna for high-capacity and dense macro applications
- 2-beam (4-port) covering 617-960 MHz, 4-beam (8-port) covering 1695-2200 MHz and 4-beam (8-port) covering 3300-3550/3700-4000 MHz
- Remote Electrical Tilt (RET) with independent control for each beam
- Patented technology allows for stable azimuth beam directions over the entire operating frequency band



Electrical Specifications

Frequency Band [MHz]	617-698	698-806	806-896	896-960	1695-1910	1930-2020	2110-2200	3300-3550	3700-4000
Input Connector Type	4 x 4.3-10(F)				8 x 4.3-10(F)			8 x 4.3-10(F)	
Gain, max. (dBi)	12.9	13.9	14.3	13.9	19.9	20.1	20.3	20.1	20.3
Gain, avg. (dBi)	12.1	13.3	13.2	13.4	18.3	19.1	19.1	19.1	18.9
Azimuth Beamwidth (°)	35	32	29	28	19	18	18	18	17
Azimuth Beam Spacing (°)	50				26				
Azimuth Beam Crossover (dB)	7.6	9.9	12.1	13.9	7.4	8.6	10.0	7.8	9.1
Elevation Beamwidth (°)	32.5	29.3	26.5	25.2	14.8	13.7	12.5	13.9	12.6
Electrical Downtilt Range (°)	2 - 14				0 - 10				
Front-to-Back Ratio, 180° (dB)	35				45			40	
Cross-Pol Discrimination@Boresight (dB)	20				16	18	19	25	
VSWR /RL (dB)	1.5:1 / 14.0								
Port-to-Port Isolation, Intrabeam (dB)*	25								
Port-to-Port Isolation, Interbeam (dB)**	14								
PIM @ 2x43 dBm, (dBc)	-153							-145	
Total Input Power (Watt)	1600								
Max Power Per Port (Watt)	200							150	
Polarization (°)	Dual slant 45 (±45)								
Impedance (Ω)	50								

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

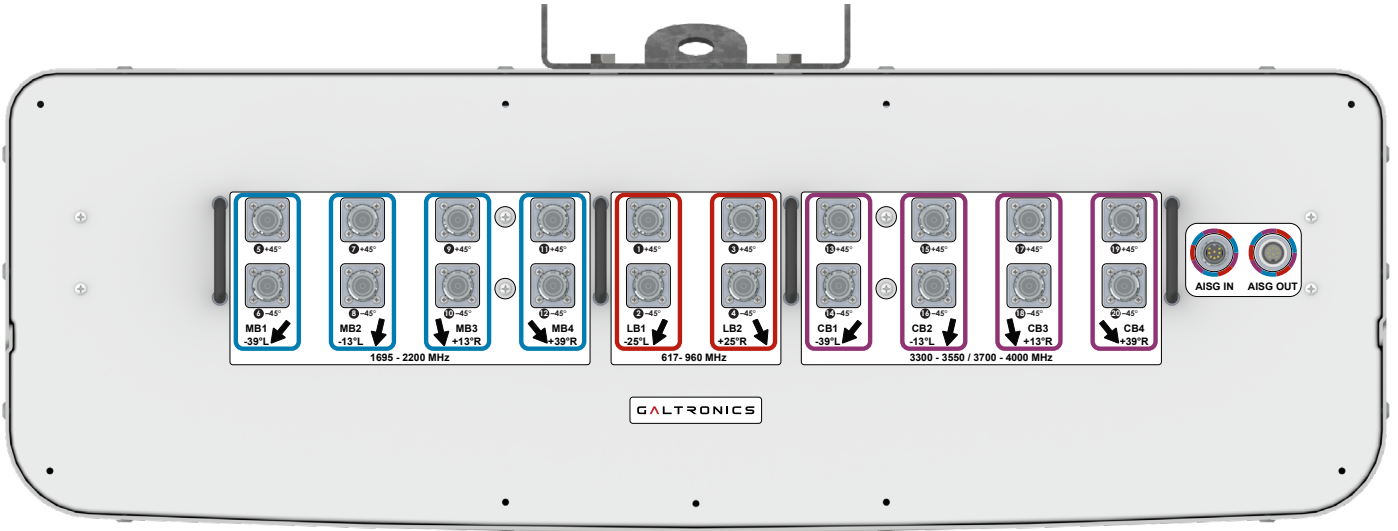
** Port-port isolation between any combination of ports between different beams

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Electrical Specifications - BASTA

Frequency Band [MHz]	617-698	698-806	806-896	896-960	1695-1910	1930-2020	2110-2200	3300-3550	3700-4000
Gain Over All Tilts, avg. (dBi)	12.1	13.3	13.2	13.4	17.9	18.6	18.9	19.1	19.2
Gain Over All Tilts Tolerance (dB)	0.7	0.5	0.8	0.6	1.3	1.0	0.9	0.8	0.7
AZ Beamwidth Tolerance (°)	2.6	2.3	1.7	0.9	3.1	3.9	4.5	3.6	3.5
EL Beamwidth Tolerance (°)	1.4	1.7	1.5	1.3	1.0	0.5	0.5	0.7	0.7
Upper Sidelobe Suppression, Peak to +20° (dB)	N/A				17.7	15.9	14.2	18.9	20.9
Front-to-Back Ratio, Total Power, +/-30° (dB)	21	26	27	28	32	35	35	30	30
Cross-Polar Discrimination at Boresight (dB)	17.5	20.2	13.8	13.5	11.2	13.8	14.2	17.7	21.7
Azimuth Beam Peak Tolerance (°)	1.9	1.5	1.9	1.5	0.7	0.4	0.4	0.6	0.8
Azimuth Beam Crossover Tolerance (dB)	0.9	1.1	0.9	1.3	0.8	0.4	0.7	0.8	0.9

Bottom Plate & Port Designation Details

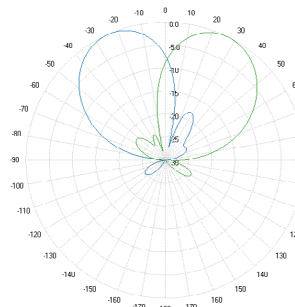


Port/Beam Designator Table

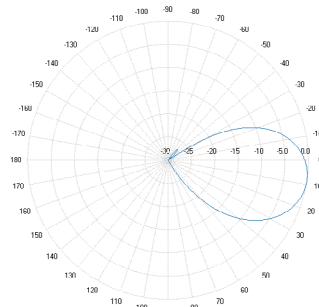
Frequency Range	Ports	Beam ID	AZ Beam Direction	Downtilt	Actuator ID
617-960 MHz	1 - 2	LB1	-25° L	2° - 14°	LB1(P1,P2)-R1
617-960 MHz	3 - 4	LB2	+25° R	2° - 14°	LB2(P3,P4)-R2
1695-2200 MHz	5 - 6	MB1	-39° L	0° - 10°	MB1(P5,P6)-B1
1695-2200 MHz	7 - 8	MB2	-13° L	0° - 10°	MB2(P7,P8)-B2
1695-2200 MHz	9 - 10	MB3	+13° R	0° - 10°	MB3(P9,P10)-B3
1695-2200 MHz	11 - 12	MB4	+39° R	0° - 10°	MB4(P11,P12)-B4
3300-3550/3700-4000 MHz	13- 14	CB1	-39° L	0° - 10°	CB1(P13,P14)-P1
3300-3550/3700-4000 MHz	15- 16	CB2	-13° L	0° - 10°	CB2(P15,P16)-P2
3300-3550/3700-4000 MHz	17- 18	CB3	+13° R	0° - 10°	CB3(P17,P18)-P3
3300-3550/3700-4000 MHz	19- 20	CB4	+39° R	0° - 10°	CB4(P19,P20)-P4

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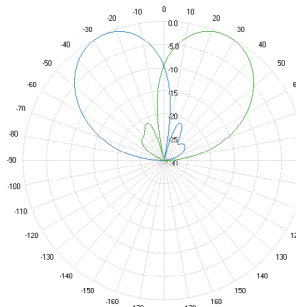
2D Antenna Patterns



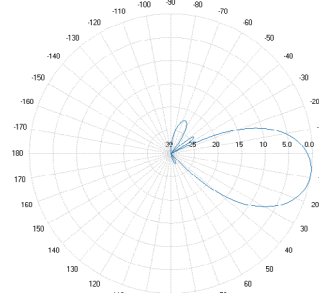
663 MHz



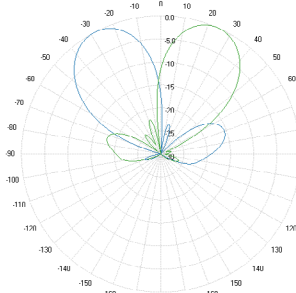
751 MHz



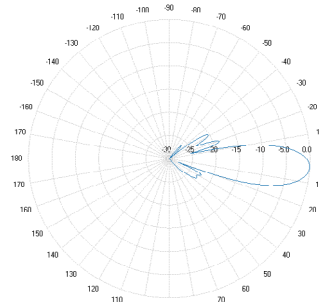
840 MHz



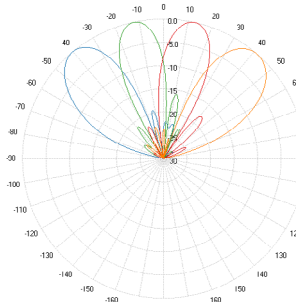
915 MHz



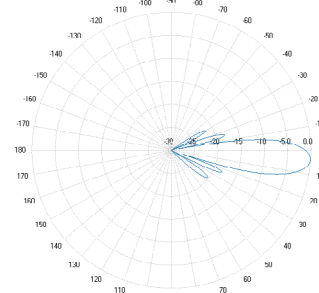
1865 MHz



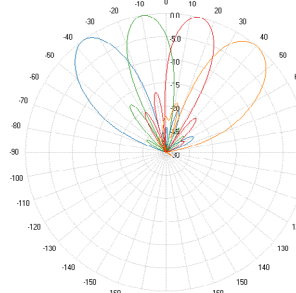
1980 MHz



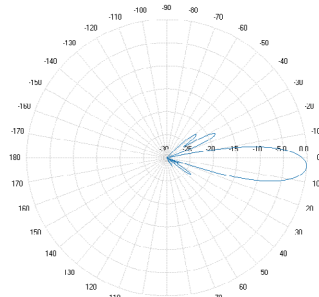
2170 MHz



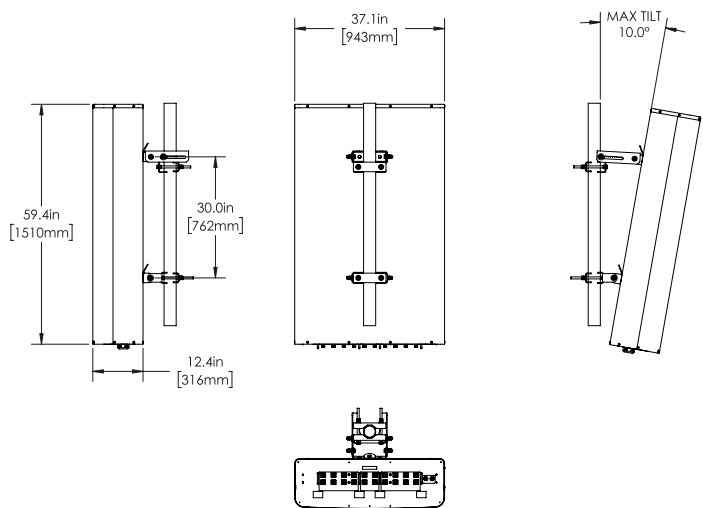
3450 MHz



3900 MHz



Antenna Outline



Mechanical Specifications

Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	120 lbs (54.5 kg)
Antenna Bracket Weight (MK-06989)	13.4 lbs (6.1 kg)
Antenna Dimension (Height x Width x Depth)	59.4" (1510 mm) x 37.1" (943 mm) x 12.4" (316 mm)
Input Connector Type	20 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)*	1549 N / 348 lbf
Wind Load, Rear (@ 150 km/h)*	1693 N / 381 lbf
Wind Load, Side (@ 150 km/h)*	610 N / 137 lbf
Wind Load, Max (@ 150 km/h)*	1919 N / 431 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
Tri-Band 2/4/4 Multibeam 120° Sector 2x2 Antenna with RET and 20 x 4.3-10(F) Connectors	Gray	Includes MK-06989 Mounting Bracket Assemblies	GP5920-08182-112

Mounting Brackets & Optional Accessories

Description	Part Number
Heavy Duty Mounting Bracket (wind speed of 150 mph) [Included] The MK-06989 standard mounting bracket is suitable for all Galtronics outdoor Base Station Panel Antenna with height between 2.5' and 4', and can be assembled onto poles ranging from 2.0" to 4.5". Note: The MK-06989 mounting bracket can also be ordered separately.	 MK-06989

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