GALTRONICS

Multi-Band 3/3/3 Multibeam 120° Sector 2x2 Antenna [617-960, 1695-2690 & 3300-4000 MHz]

GP4618-08158

Description:

- Multi-band 3-beam antenna for high-capacity stadium/venue or special events applications
- 3-beam (6-port) covering 617-960 MHz, 3-beam (6-port) covering 1695-2690 MHz, and 3-beam (6-port) 3300-4000 MHz
- 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

Electrical Specifications

Frequency Band [MHz]	617-698	698-806	806-896	896-960	1695-1910	1930-2020	2110-2200	2305-2360	2496-2690	3300-3550	3550-3700	3700-4000
Gain, max. (dBi)	16.0	16.9	16.8	16.7	18.7	19.1	19.2	19.3	20.1	18.7	19.1	19.4
Gain, avg. (dBi)	14.7	15.5	15.6	15.3	17.2	18.2	18.5	18.1	18.5	17.7	18.0	18.1
Azimuth Beamwidth (°)	21.5	19.5	17.5	16.9	24.4	23.5	21.5	20.2	19.7	23.1	22.5	21.9
Azimuth Beam Spacing (°)	33				35							
Azimuth Beam Crossover (dB)	9.3	12.4	15.5	16.9	7.0	8.2	9.2	10.5	12.3	8.2	9.0	9.6
Elevation Beamwidth (°)	31.0	27.9	24.7	23.4	15.3	14.2	13.0	12.3	10.7	14.3	13.7	12.9
Electrical Downtilt (°)	9 FET				6 FET							
First Upper Sidelobe Suppression (dB)	16.9	17.5	15.4	17.0	18.0	16.1	15.4	15.2	11.1	19.0	19.0	19.0
Front-to-Back Ratio, 180° (dB)	38				40					45		
Cross-Pol Discrimination @ Boresight (dB)	24	21	17	16	20	23	26	21	21	26	28	25
VSWR / RL (dB)	1.5:1 / 14.0											
Port-to-Port Isolation, Intrabeam (dB)*	25											
Port-to-Port Isolation, Interbeam (dB)**	14.0				16.0					14.0		
PIM @ 2x43 dBm (dBc)	-153									-145		
Max Power per Port (W)	100											
Max Total Input Power (W)	1800											
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

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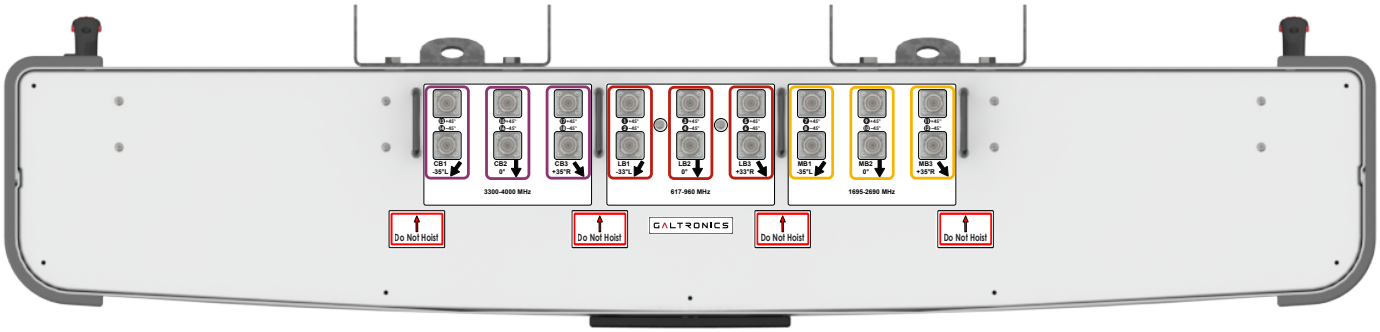
Gain Over All Tilts, avg. (dBi)	14.7	15.5	15.6	15.3	17.2	18.2	18.5	18.1	18.5	17.7	18.0	18.1
Gain Over All Tilts Tolerance (dB)	1.5	1.5	1.4	1.1	0.9	0.8	0.4	1.1	1.0	0.8	1.0	1.2
AZ Beamwidth Tolerance (°)	2.6	2.5	1.5	1.1	2.1	2.1	1.2	2.2	2.1	3.2	3.4	3.6
EL Beamwidth Tolerance (°)	3.1	3.4	1.9	2.6	1.0	0.7	0.5	0.7	0.8	0.9	0.8	1.0
Upper Sidelobe Suppression, Peak to +20° (dB)	N/A				17.5	14.3	13.4	13.0	8.3	16.8	16.1	17.3
Front-to-Back Ratio, Total Power, +/-30° (dB)	26	28	28	28	31	36	35	35	33	32	33.2	32
Cross-Polar Discrimination at Boresight (dB)	17	15	14	10	14	20	20	15	17	20	23	21
Azimuth Beam Peak Tolerance (°)	1.2	1.2	0.8	0.8	0.7	0.4	0.5	1.0	0.6	0.7	0.6	0.7
Azimuth Beam Crossover Tolerance (dB)	1.3	1.7	1.9	2.8	0.9	0.6	0.5	1.1	1.8	1.0	0.8	1.0

Bottom Plate & Port Designation Details



Port/Beam Designator Table

Frequency Range	Ports	Beam Assignment	AZ Beam Direction	Downtilt
617-960 MHz	1 - 2	LB1	-33° L	9° Fixed
617-960 MHz	3 - 4	LB2	0°	9° Fixed
617-960 MHz	5 - 6	LB3	+33° R	9° Fixed
1695-2690 MHz	7 - 8	MB1	-35° L	6° Fixed
1695-2690 MHz	9 - 10	MB2	0°	6° Fixed
1695-2690 MHz	11 - 12	MB3	+35° R	6° Fixed
3300-4000 MHz	13 - 14	CB1	-35° L	6° Fixed
3300-4000 MHz	15 - 16	CB2	0°	6° Fixed
3300-4000 MHz	17 - 18	CB3	+35° R	6° Fixed

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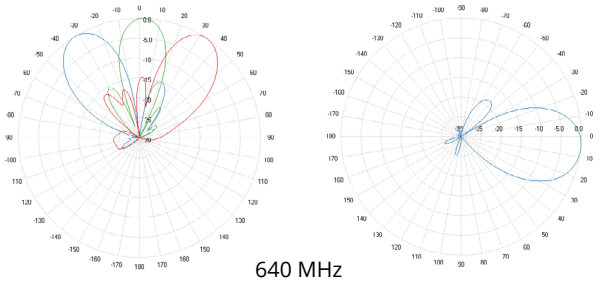
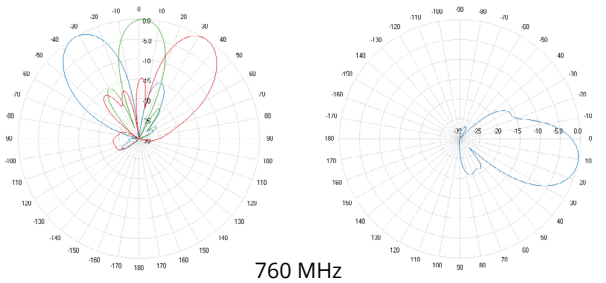
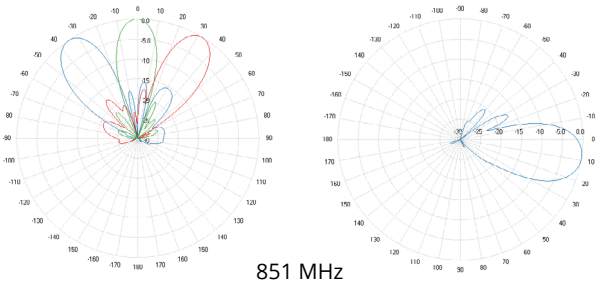
2D Antenna Patterns



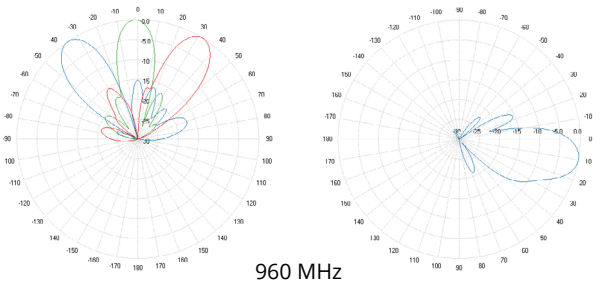
640 MHz



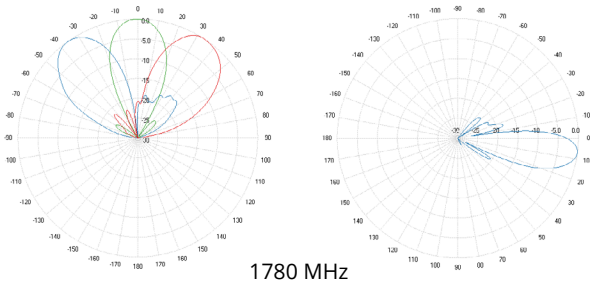
760 MHz



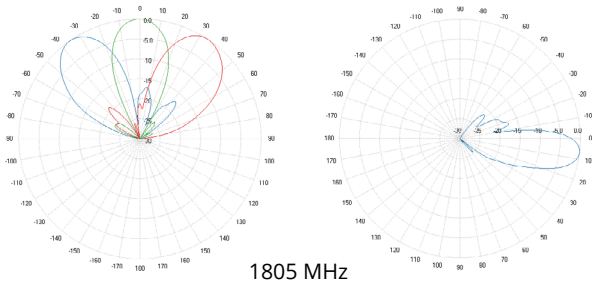
851 MHz



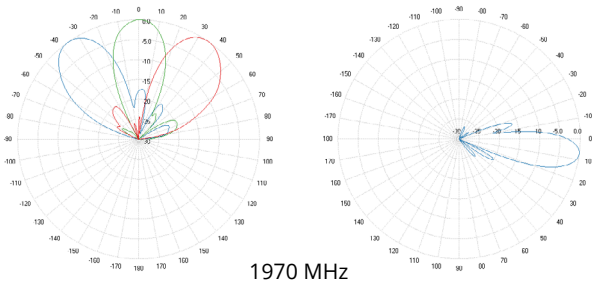
960 MHz



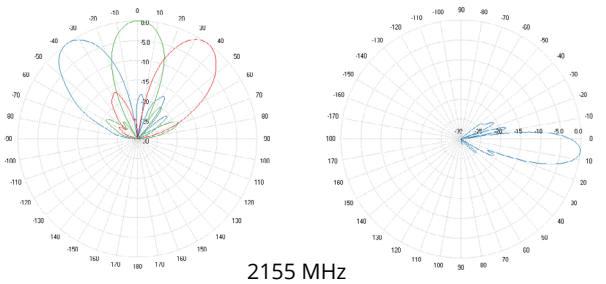
1780 MHz



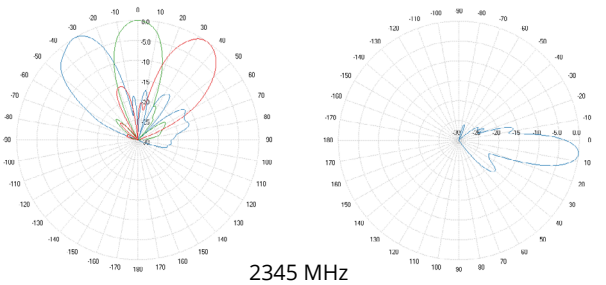
1805 MHz



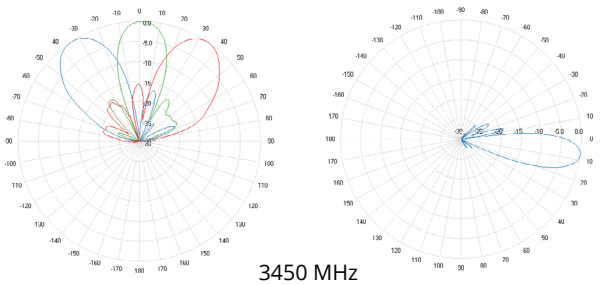
1970 MHz



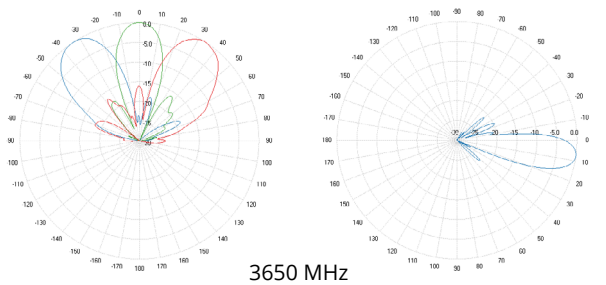
2155 MHz



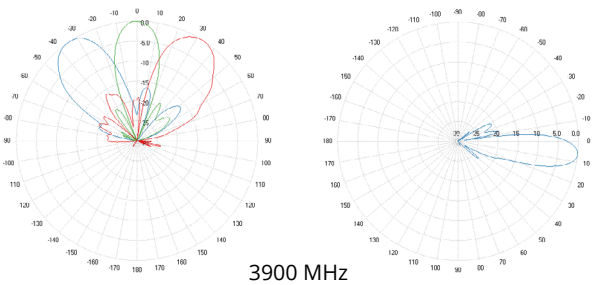
2345 MHz



3450 MHz



3650 MHz



3900 MHz

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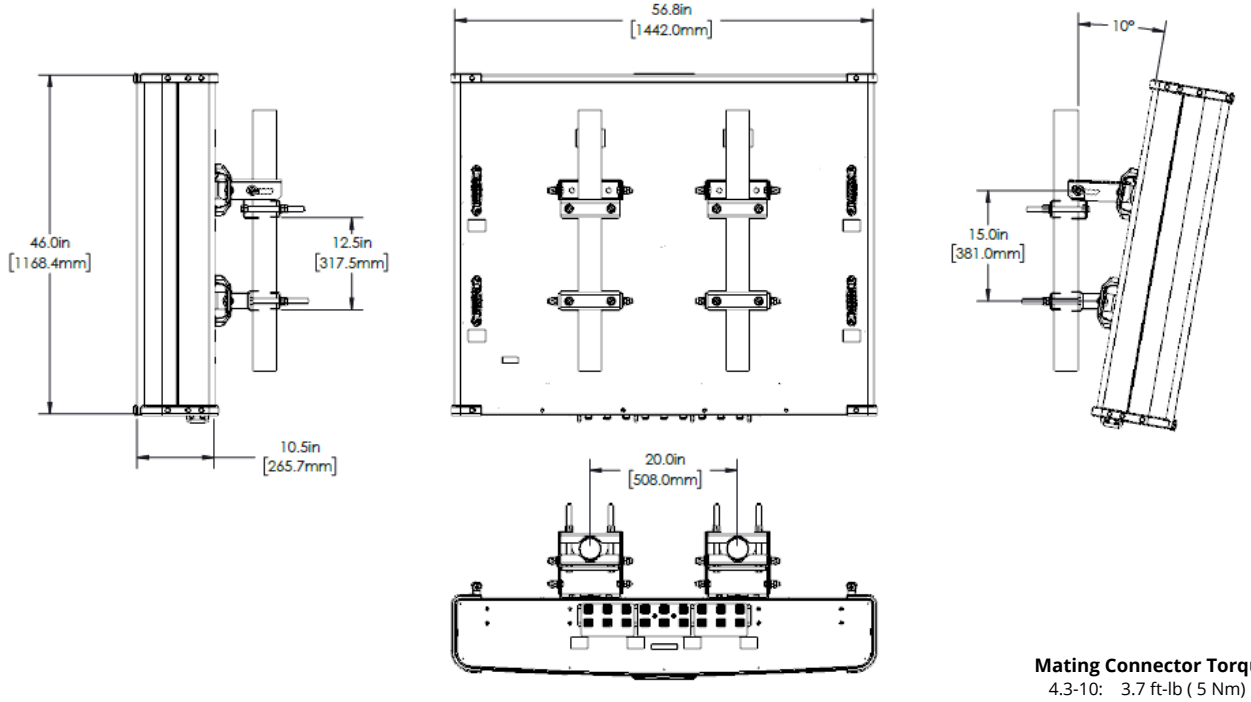
Antenna Outline



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	118.0 lbs (53.5 kg)
Antenna Bracket Weight	15.3 lbs (6.9 kg), 2x Brackets Per Antenna
Antenna Dimension (Height x Width x Depth)	46.0" (1168.4 mm) x 56.8" (1442.0 mm) x 10.5" (265.7 mm)
Input Connector Type	18 x 4.3/10 (F)
Radome Material	ASA w/Heavy Duty Top/Bottom Caps
Radome Color	Gray
Environment Rating	Outdoor
WInd Load, Front (@ 150 km/h)*	1944 N / 437 lbf
WInd Load, Rear (@ 150 km/h)*	2083 N / 468 lbf
WInd Load, Side (@ 150 km/h)*	409 N / 92 lbf
WInd Load, Max (@ 150 km/h)*	2189 N / 492 lbf
Wind Survival Rating	150 mph (241 km/h)

* Wind load based on calculations according to TIA-222-H

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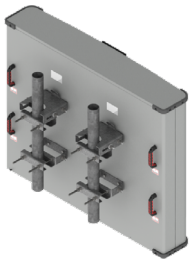
Part Numbers & Ordering Options

Description	Color	Mounting Kit	Part Number
Multi-band 3/3/3 multibeam 2x2 antenna with 18x 4.3-10 (F) connectors	Gray	Includes 2x MK-07915 mounting kit assemblies	GP4618-08158-112
Multi-band 3/3/3 multibeam 2x2 antenna with 18x 4.3-10 (F) connectors and heavy-duty transport case	Gray	Includes 2x MK-07915 mounting kit assemblies	GP4618-08158-212

Mounting Brackets & Optional Accessories

Description:	Part Number:
Heavy Duty Mounting Bracket (wind speed of 150 mph) [Included] The MK-07915 standard mounting bracket allows for easy installation of this Galtronics multibeam antenna with height between 1.5′ and 3′. It provides 0°-10° mechanical downtilt adjustability, and fits pole diameters ranging from 2.0″ to 4.5″. **Note**: The MK-07915 mounting bracket can also be ordered separately.	 MK-07915

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