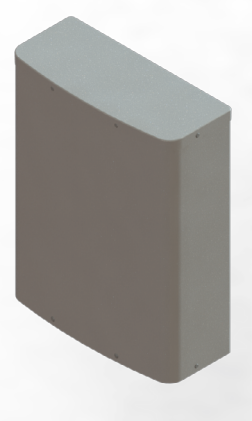
GALTRONICS

3-Beam 2x2 Multibeam Panel Antenna [1695-2690 MHz]

GP2606-07912

Description:

- 2x2 MIMO 3-Beam antenna for high-capacity stadium/venue or special events applications
- 3-Beam (6-port) 1695-2690 MHz; each beam with 2x2 MIMO capability
- 6° Fixed Electrical Downtilt in all bands
- 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



2x2 MIMO 1695-2690 MHz 3-Beam Panel Antenna

Electrical Specifications

Frequency Band [MHz]	1695-1910	1930-2020	2110-2200	2305-2360	2496-2690
Gain, max. (dBi)	17.2	17.6	17.9	18.2	19.0
Gain, avg. (dBi)	16.2	16.6	17.3	16.9	18.0
Azimuth Beamwidth (°)	25.2	24.4	22.8	21.3	20.2
Azimuth Beam Spacing (°)	33				
Azimuth Beam Crossover (dB)	6.3	6.9	7.9	8.3	9.6
Elevation Beamwidth (°)	15.9	14.9	12.8	12.1	11.1
Electrical Downtilt (°)	6 FET (per each 2x2 beam cluster)				
First Upper Sidelobe Suppression (dB)	22	20	18	19	23
Front-to-Back Ratio, 180° (dB)	35				
Cross-Pol Discrimination @ Boresight (dB)	22				
VSWR / RL (dB)	1.5:1 / 14				
Port-to-Port Isolation, Intrabeam (dB)*	25				
Port-to-Port Isolation, Interbeam (dB)**	15	16	19	20	18
PIM @ 2x43 dBm (dBc)	-153				
Max Power per Port (W)	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

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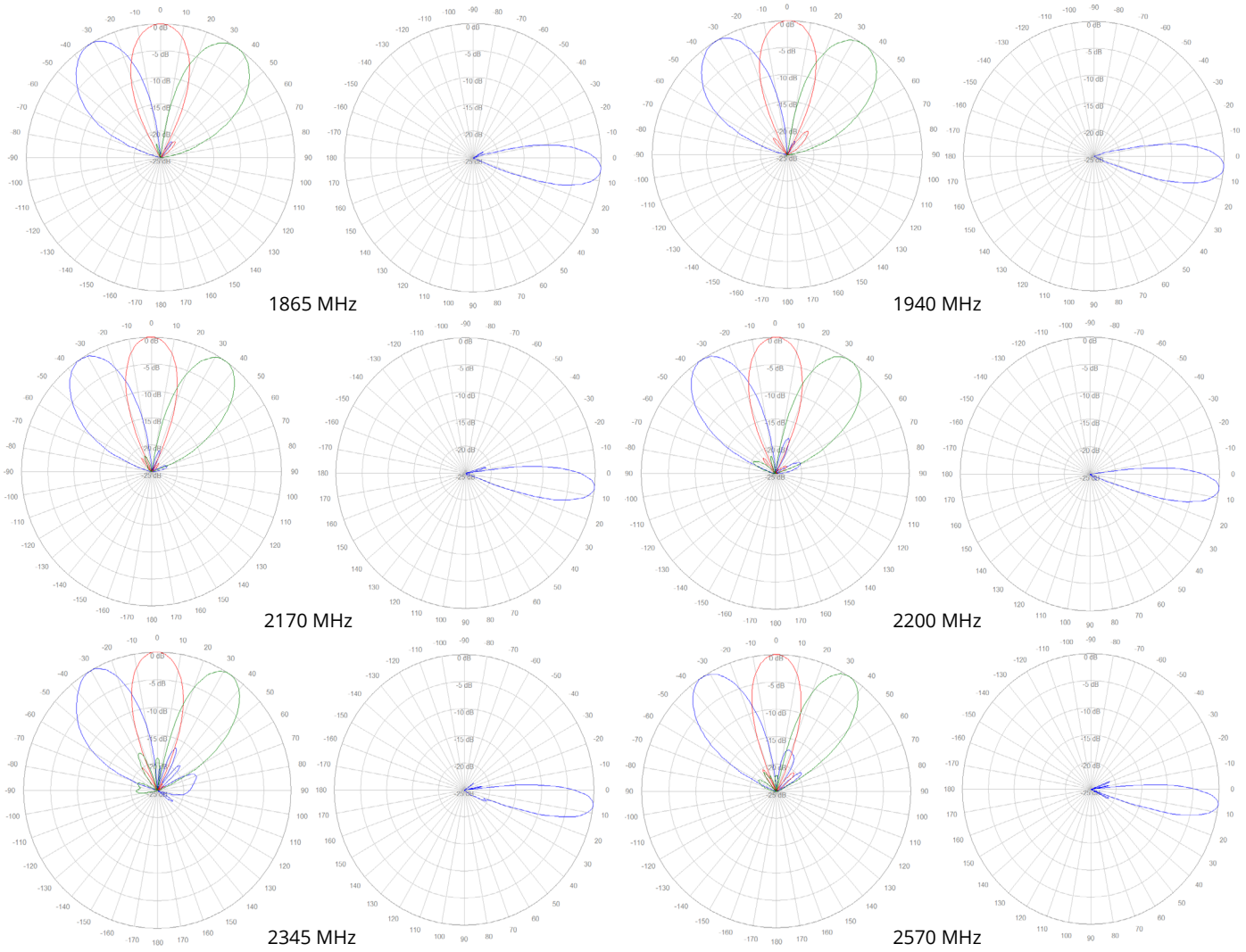
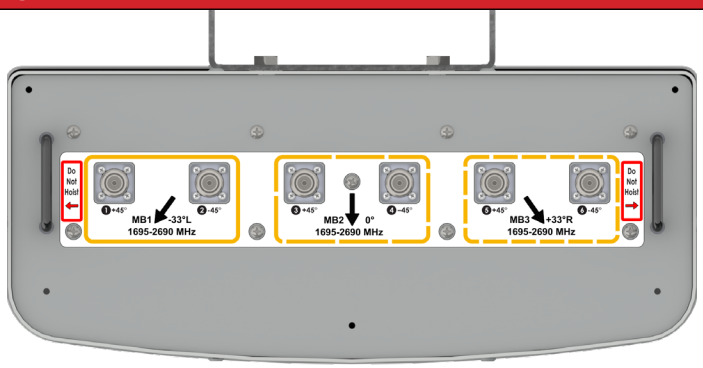
2D Antenna Patterns



Bottom Plate & Port Designation Details



Mating Connector Torque:
4.3-10 44.3 in-lb (5 Nm)

Port/Beam Designator Table

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

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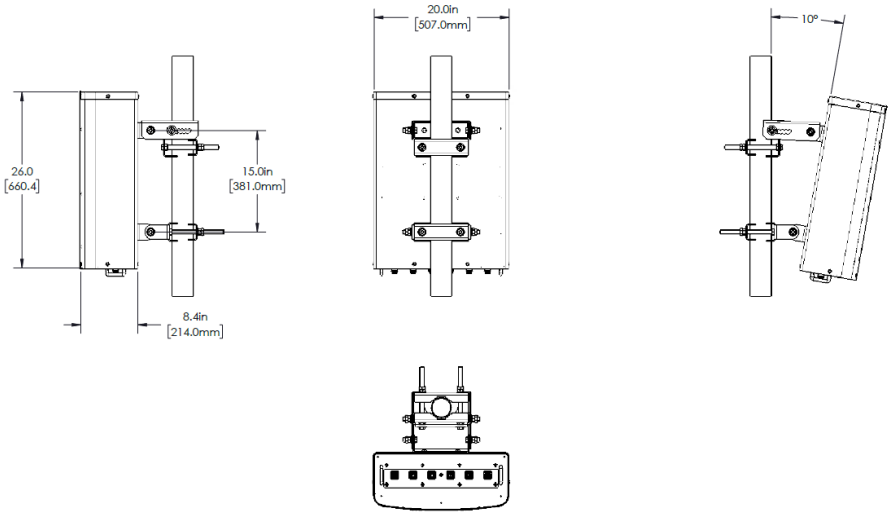
Antenna Outline



Mechanical Specifications

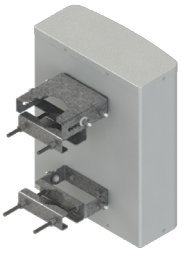
Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	26.5 lbs (12 kg)
Antenna Bracket Weight	15.3 lbs (6.9 kg)
Antenna Dimension (Height x Width x Depth)	26.0" (660.4 mm) x 20.0" (507.0 mm) x 8.4" (214.0 mm)
Input Connector Type	6x 4.3/10 (F)
Radome Material	ASA
Radome Color	Gray
Environment Rating	Outdoor
Wind Load, Front (@ 150 km/h)*	349.1 N / 78.0 lbf
Wind Load, Side (@ 150 km/h)*	175.8 N / 40.0 lbf
Wind Load, Maximum (@ 150 km/h)*	464.5 N / 104.0 lfb
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
2x2 MIMO 1695-2690 MHz 3-Beam Antenna with 6x 4.3-10 (F) Connectors	Gray	Includes MK-07915 mounting kit assemblies	GP2606-07912-112
2x2 MIMO 1695-2690 MHz 3-Beam Antenna with 6x 4.3-10 (F) Connectors and Heavy Duty Transport Case	Gray	Includes MK-07915 mounting kit assemblies	GP2606-07912-212

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. It provides 0°-10° of mechanical downtilt adjustability, and fits pole diameters ranging from 2" to 5". **Note**: The MK-07915 mounting bracket can also be ordered separately.	 MK-07915

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