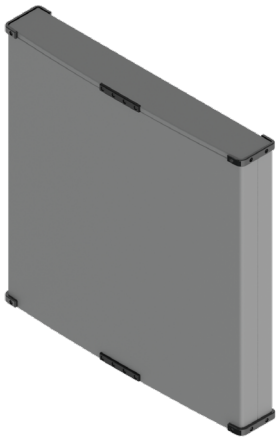
GALTRONICS

Mid-Band 9-Beam 4x4 MIMO Panel Antenna [1695-2690 MHz]

GP5136-07800

Description:

- 9-beam antenna for high-capacity stadium/venue or special events applications
- 9-beam (36-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
- 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



4x4 MIMO 1695-2690 MHz 9-beam Panel Antenna

Electrical Specifications

Frequency Band [MHz]	1695-1910	1930-2020	2110-2200	2305-2360	2496-2690
Gain, max. (dBi)	21.3	21.9	22.1	22.1	23.2
Gain, avg. (dBi)	19.6	20.4	21.0	20.6	21.2
Azimuth Beamwidth (°)	8.8	8.2	7.8	7.5	7.0
Azimuth Beam Spacing (°)	13				
Azimuth Beam Crossover (dB)	7.6	9.2	10.7	12.4	13.9
Elevation Beamwidth (°)	16.0	14.7	12.9	12.5	11.2
Electrical Downtilt (°)	6 FET (per each 4x4 beam cluster)				
First Upper Sidelobe Suppression (dB)	21	19	20	20	21
Front-to-Back Ratio, 180° (dB)	40				
Cross-Polar Discrimination @ Boresight (dB)	20				
VSWR / RL (dB)	1.5:1 / 14.0				
Port-to-Port Isolation, Intrabeam* (dB)	25				
Port-to-Port Isolation, Interbeam** (dB)	17.0	17.0	19.0	18.0	16.5
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 four ports in the same 4x4 MIMO beam

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

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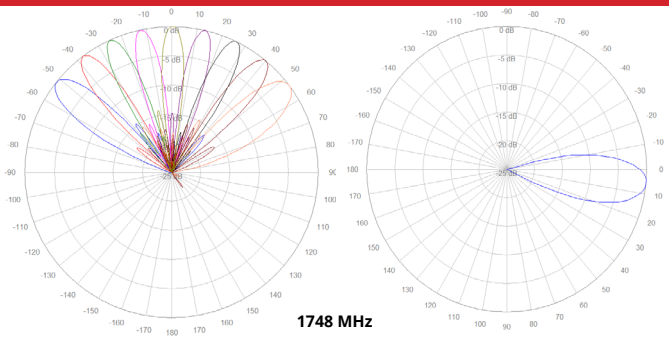
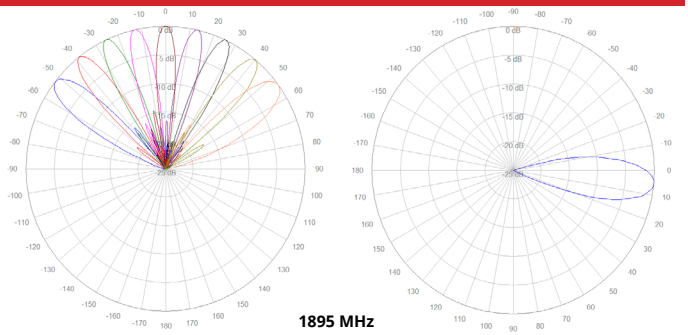
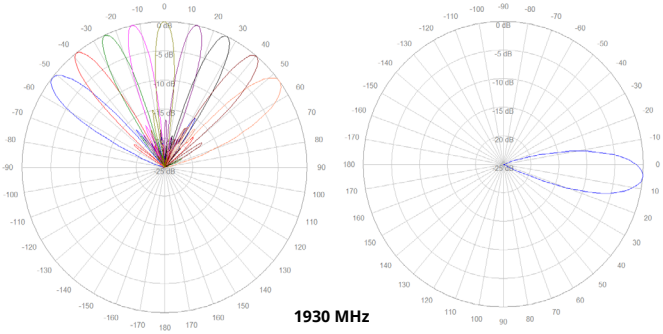
2D Antenna Patterns



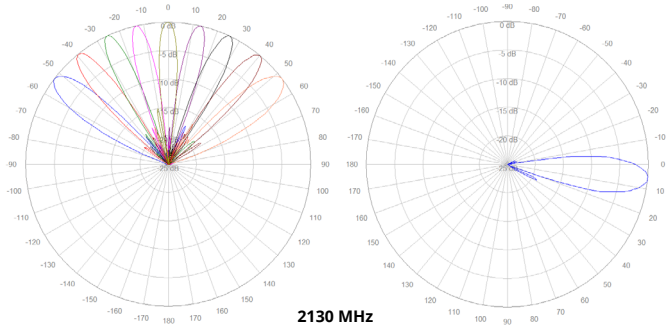
1748 MHz



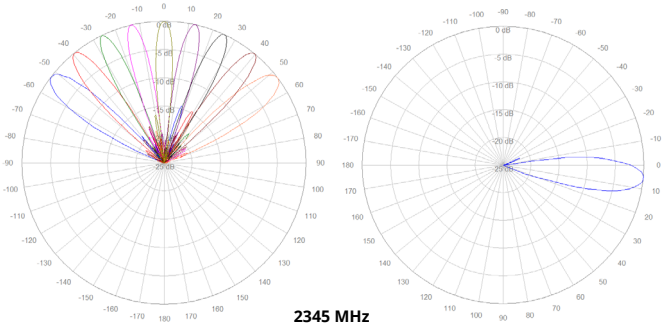
1895 MHz



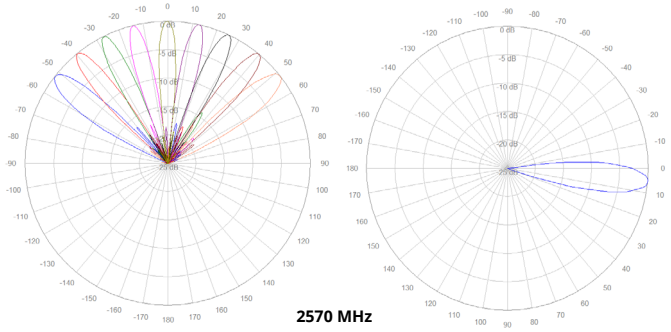
1930 MHz



2130 MHz

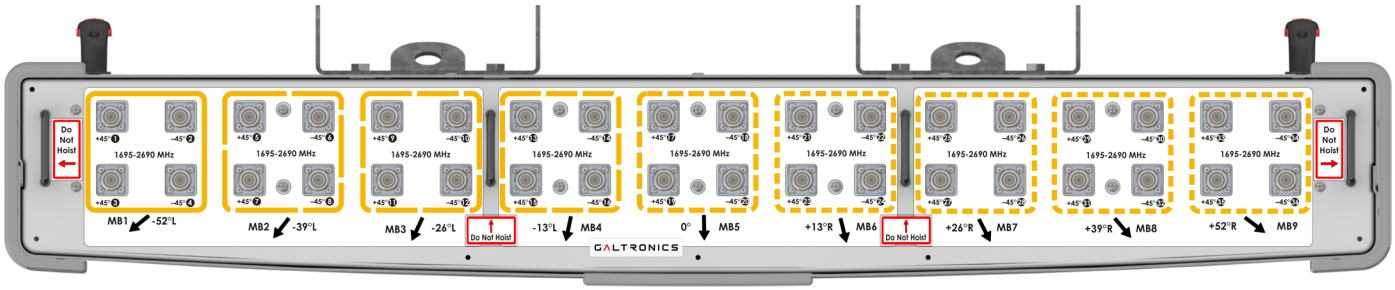


2345 MHz



2570 MHz

Bottom Plate & Port Designation Details



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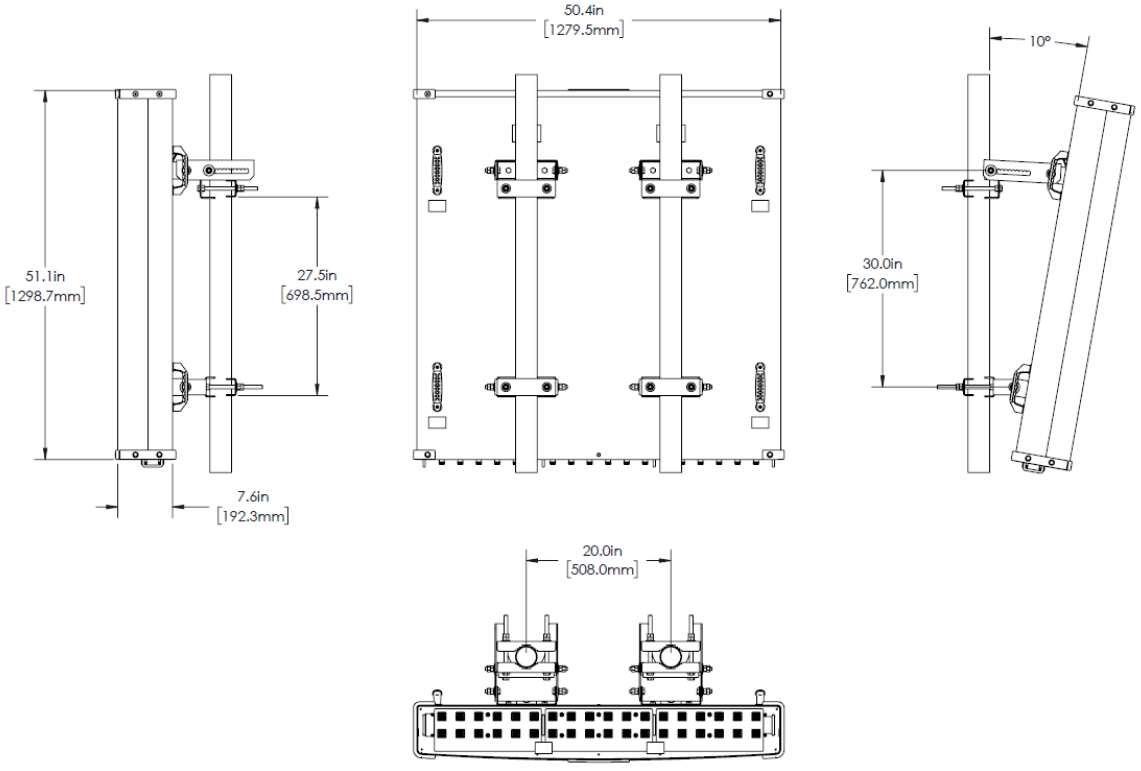
Port/Beam Designator Table

Frequency Range	Ports	Beam Assignment	AZ Beam Direction	Downtilt
1695-2690 MHz	1 - 4	MB1	-52° L	6° Fixed
1695-2690 MHz	5 - 8	MB2	-39° L	6° Fixed
1695-2690 MHz	9 - 12	MB3	-26° L	6° Fixed
1695-2690 MHz	13 - 16	MB4	-13° L	6° Fixed
1695-2690 MHz	17 - 20	MB5	0°	6° Fixed
1695-2690 MHz	21 - 24	MB6	+13° R	6° Fixed
1695-2690 MHz	25 - 28	MB7	+26° R	6° Fixed
1695-2690 MHz	29 - 32	MB8	+39° R	6° Fixed
1695-2690 MHz	33 - 36	MB9	+52° R	6° Fixed

Antenna Outline



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Mechanical Specifications

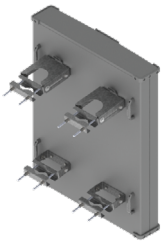
Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	110.2 lbs (50.0 kg)
Antenna Bracket Weight (2 Brackets)	26.8 lbs (12.2 kg), 2x Brackets Per Antenna
Antenna Dimension (Height x Width x Depth)	51.1" (1298.7 mm) x 50.4" (1279.5 mm) x 7.6" (192.3 mm)
Input Connector Type	36x 4.3/10 (F)
Radome Material	ASA w/ Heavy Duty Top/Bottom Caps
Radome Color	Gray
Wind Load, Front (@ 150 km/h)*	2055.3 N / 462 lbf
Wind Load, Side (@ 150 km/h)*	361.2 N / 81 lbf
Wind Load, Maximum (@ 150 km/h)*	2146.9 N / 483 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
4x4 MIMO 1695-2690 MHz 9-Beam Antenna, 6° FET with 36x 4.3-10 (F) Connectors	Gray	Includes 2x MK-06989 mounting kit assemblies	GP5136-07800-112
4x4 MIMO 1695-2690 MHz 9-Beam Antenna, 6° FET with 36x 4.3-10 (F) Connectors and Heavy Duty Transport Case	Gray	Includes 2x MK-06989 mounting kit assemblies	GP5136-07800-212

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" to 5". **Note**: The MK-06989 mounting bracket can also be ordered separately.	 MK-06989

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