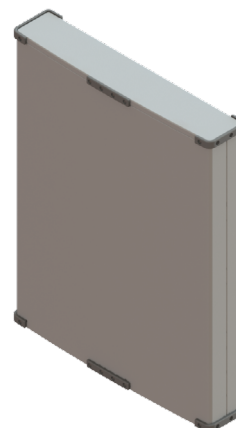


4' 24-Port 4x4 MIMO Narrow 6-Beam High Gain Directional Panel Antenna [1695-2360 MHz]

GP5124-07277

Description:

- 4x4 MIMO 6-beam high gain Antenna for high capacity stadium/venue or special event applications
- Very narrow beamwidths - 10.3° AZ/13.6° EL (average) across band for high sector selectivity
- Patent Pending technology allows for exceptional UL/DL beam tracking repeatability & stability
- Fixed Electrical Downtilt of 6° per each 4x4 MIMO beams
- Provided with heavy duty top/bottom caps and heavy duty transport case to prevent damage with multiple deployments
- Excellent alternative to traditional multi-beam antennas



1695-2360 MHz 6-Beam 4x4 MIMO
Multibeam Directional Panel Antenna

Electrical Specifications

Frequency Band [MHz]	1695-1910	1930-2020	2110-2200	2305-2360
Gain, max. (dBi)	20.1	20.3	20.7	21.1
Gain, avg. (dBi)	18.4	19.0	19.3	19.2
Azimuth Beam Width, 3dB (°)	11.5	10.6	9.9	9.2
Azimuth Beam Width, 10dB (°)	20.0	18.5	17.2	16.1
Azimuth Beam Spacing (°)	16.3			16.1
Azimuth Beam Crossover (dB)	7.5	8.9	10.4	11.7
Elevation Beam Width, 3dB (°)	15.4	14.1	13.1	11.9
Elevation Beam Width, 10dB (°)	26.8	24.3	22.6	20.6
Electrical Downtilt (°)	6 FET (per each 4x4 beam cluster)			
First Upper Sidelobe Suppression (dB)	22	20	20	22
Front-to-Back Ratio, 180° (dB)	38	38	38	36
Cross-Polar Discrimination at Boresight (dB)	21	26	26	26
VSWR (max.) / RL (min.) (dB)	1.4:1 / 15.6		1.3:1 / 17.7	
Port-to-Port Isolation, Intrabeam* (dB, min.)	30			28
Port-to-Port Isolation, Interbeam** (dB, min.)	18	19	21	
PIM @ 2x43 dBm, dBc (max.)	-153			
Max Power per Port (W)	100			
Polarization (°)	Dual slant 45 (±45)			
Impedance (Ω)	50			

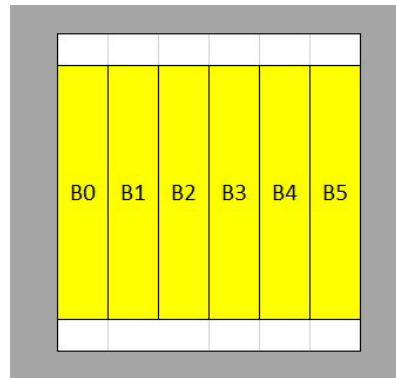
* Port-port isolation between each cluster of four ports in the same 4x4 MIMO beam

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

Electrical Specifications - BASTA

Frequency Band [MHz]	1695-1910	1930-2020	2110-2200	2305-2360
Gain Over All Tilts, avg. (dBi)	18.4	19.0	19.3	19.2
Gain Over All Tilts Tolerance (dB)	1.3	1.3	1.3	2.0
AZ Beamwidth Tolerance (°)	1.7	1.8	1.9	1.7
EL Beamwidth Tolerance (°)	1.3	0.5	0.5	0.5
Upper Sidelobe Suppression, Peak to +20° (dB)	20.8	17.8	16.8	17.3
Front-to-Back Ratio, Total Power, +/-30° (dB)	26.1	25.7	24.0	22.7
Cross-Polar Discrimination at Boresight (dB)	16.0	18.4	19.1	19.1

Bottom Plate & Port Designation Details



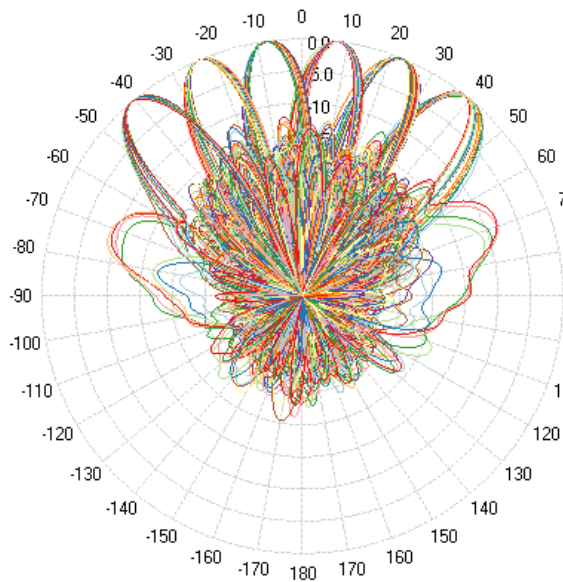
View from behind the antenna

Port/Beam Designator Table

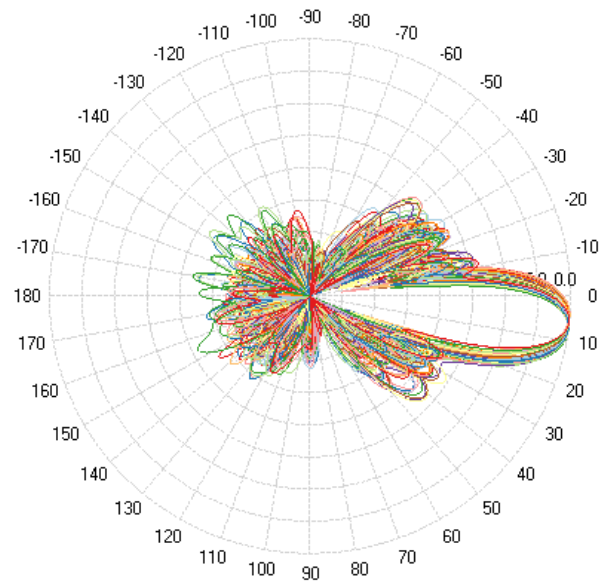
Frequency Range	Ports	Beam Assignment	AZ Beam Direction	Downtilt
1695-2360 MHz	1 - 4	B0	-40° L	6° Fixed
1695-2360 MHz	5 - 8	B1	-24° L	6° Fixed
1695-2360 MHz	9 - 12	B2	-8° L	6° Fixed
1695-2360 MHz	13 - 16	B3	+8° R	6° Fixed
1695-2360 MHz	17 - 20	B4	+24° R	6° Fixed
1695-2360 MHz	21 - 24	B5	+40° R	6° Fixed

RFD#: 7277 ; Revision: R5 ; Release Date: January 21, 2021 ;

2D Antenna Patterns

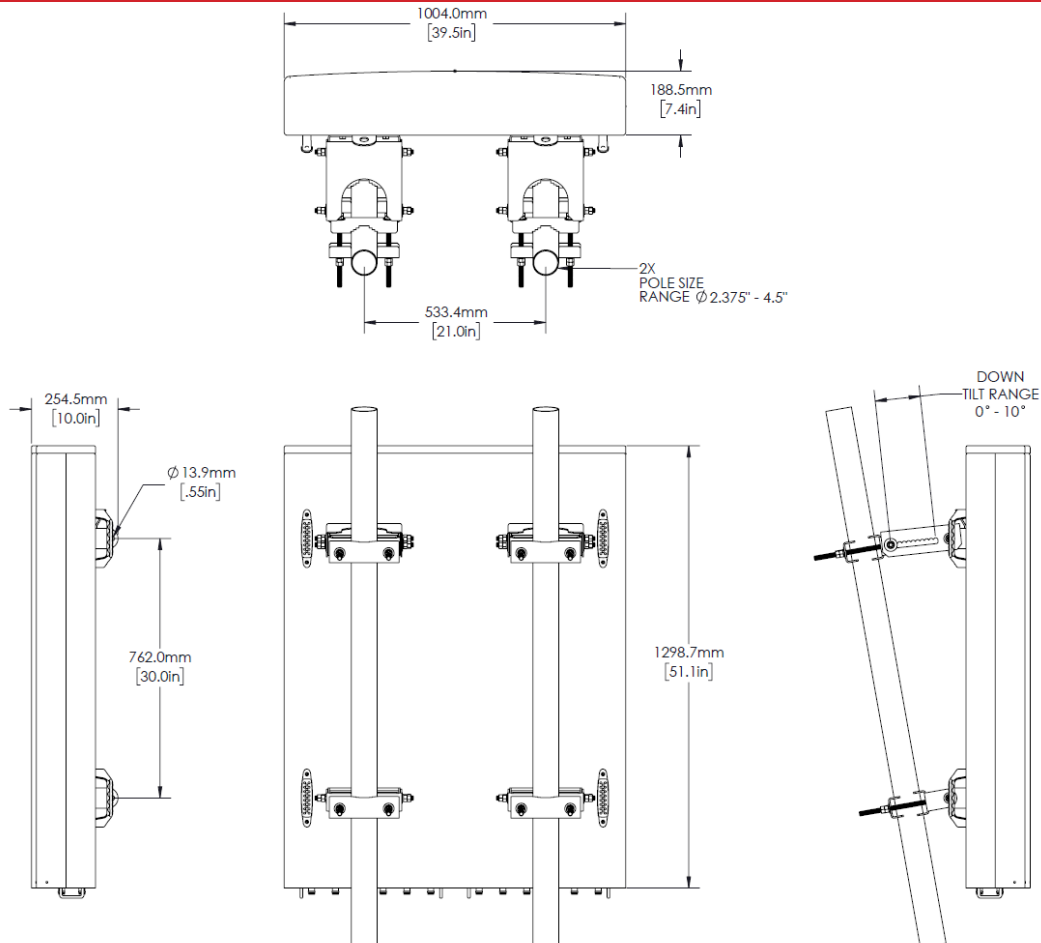


Azimuth



Elevation

Antenna Outline



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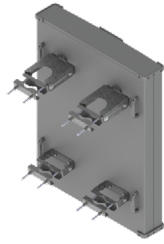
Mechanical Specifications

Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	70 lbs (31.8 kg)
Antenna Bracket Weight	13.4 lbs (6.1 kg), 2x Brackets Per Antenna
Antenna Dimension (Height x Width x Depth)	51.1" (1298.7 mm) x 39.5" (1004.0 mm) x 7.4" (188.5 mm)
Input Connector Type	24x 4.3/10 (F)
Radome Material	ASA w/Heavy Duty Top/Bottom Caps
Radome Color	Gray
Wind Load, Front (@ 150 km/h)	1666 N / 375 lbf
Wind Load, Side (@ 150 km/h)	364 N / 82 lbf
Wind Load, Maximum (@ 150 km/h)	1695 N / 381 lbf
Wind Survival Rating	150 mph (241 km/h)

Part Numbers & Ordering Options

Description	Color	Mounting Kit	Part Number
4x4 MIMO Narrow 6-Beam Directional Panel Antenna, 6° FET with 24x 4.3-10 (F) Connectors and Heavy Duty Transport Case	Gray	Includes 2x MK-06989 mounting kit assemblies	GP5124-07277-112

Mounting Brackets & Optional Accessories

Description:	Part Number:
Heavy Duty Mounting Bracket (wind speed of 150 mph) [2x Included] The MK-6989 standard mounting bracket allows for easy installation of any Galtronics Base Station Antenna (4' and less) to a macro tower structure. It provides 0°-10° of mechanical downtilt adjustability, and fits pole diameters ranging from 2.375" to 4.5". Note: The MK-06989 mounting bracket can also be ordered separately.	 MK-06989