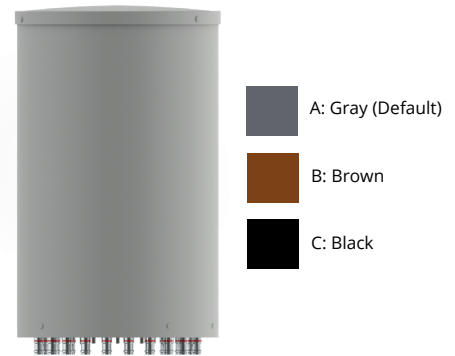


20-Port Quasi-Omni Canister Antenna with 8T8R mMIMO C-Band [698-896,1695-2690 & 3300-4200 MHz]

GQ2420-08325

Description:

- Quasi-Omni 20-port antenna for High Capacity Area Coverage
- 4x ports covering 698-896 MHz
- 8x ports covering 1695-2690 MHz
- 8T8R mMIMO in CBR5/C-band for improving coverage and capacity
- Calibration Port included for C-band mMIMO Array



Electrical Specification: Low-Band and Mid-Band

Frequency Range (MHz)	698-806	806-896	1695-1880	1850-1990	1920-2200	2305-2360	2496-2690
Input Connector Type	4x 4.3-10(F)		8x 4.3-10(F)				
Gain, Max. (dBi)	4.2	4.1	8.0	7.9	8.6	8.7	8.3
Gain, Avg., BASTA (dBi)	3.1 ± 0.5	3.2 ± 0.6	7.1 ± 0.6	7.4 ± 0.4	7.5 ± 0.6	7.6 ± 0.7	7.5 ± 0.5
AZ Beamwidth (°)	Quasi-Omni (360)						
Elevation Beamwidth (°)	76	70	29	27	26	22	21
Electrical Downtilt (°)	0 Fixed		0 or 6 Fixed				
VSWR / RL (dB)	1.5:1 / 14.0						
Isolation (dB)	20						
PIM @ 2x43 dBm (dBc)	-153						
Power per Port (W)	125						
Polarization (°)	Dual slant 45 (±45)						
Impedance (Ω)	50						

Electrical Specification: C-Band M-MIMO, Single Column

Frequency Range (MHz)	3300-3550	3550-3700	3700-4200
Input Connector Type	8x 4.3-10(F)		
Gain, Single Column, Max./Avg. (dBi)	9.8 / 8.8	8.9 / 8.5	9.5 / 8.4
AZ Beamwidth, Single Column (°)	Quasi-Omni (360)		
Elevation Beamwidth, Single Column (°)	13.5	13.7	12.6
First Upper Sidelobe Suppression (dB)	16.7	18.3	18.4
Electrical Downtilt Range (°)	2 Fixed		
VSWR / RL (dB)	1.5:1 / 14.0		
Cross-polar isolation (dB)*	25		
PIM @ 2x43 dBm (dBc)	-145		
Power per Port (W)	75		
Polarization (°)	Dual slant 45 (±45)		
Impedance (Ω)	50		

* Typical value

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Electrical Specification: C-Band M-MIMO, Broadcast Beam

Frequency Range (MHz)	3300-3550	3550-3700	3700-4200
Azimuth Scan +/-10°, Gain Max./Avg. (dBi)	12.2 / 11.7	12.4 / 12.0	12.7 / 12.3
Azimuth Scan +/-30°, Gain Max./Avg. (dBi)	11.6 / 10.9	11.7 / 11.3	12.5 / 11.5
AZ Beamwidth, Broadcast Beam (°)	Quasi-Omni (360)		
Elevation Beamwidth, Broadcast Beam (°)	13		
First Upper Sidelobe, Broadcast Beam (dB)	20		

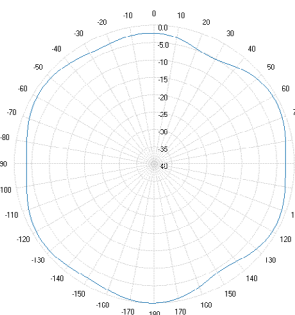
Electrical Specification: C-Band M-MIMO, Service Beam

Frequency Range (MHz)	3300-3550	3550-3700	3700-4200
Azimuth Scan 0°, Gain Max./Avg. (dBi)	12.5 / 12.0	12.5 / 12.2	12.9 / 12.2
Azimuth Scan +/-15°, Gain Max./Avg. (dBi)	12.2 / 11.7	12.3 / 12.1	12.9 / 12.3
Azimuth Scan +/-30°, Gain Max./Avg. (dBi)	11.6 / 10.9	11.7 / 11.3	12.5 / 11.5
AZ Beamwidth, Service Beam (°)	Quasi-Omni (360)		
Elevation Beamwidth, Service Beam (°)	13		
First Upper Sidelobe Suppression (dB)	20		

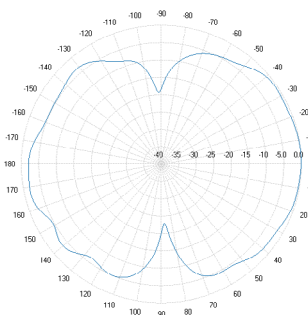
Electrical Specification: C-Band M-MIMO, Calibration Network

Frequency Range (MHz)	3300 - 4200		
Calibration Network Coupling Factor (dB)	26 ± 2.0		
Calibration Network Amplitude Deviation (dB)	< 1.2 (3300-3550 MHz)	< 1.0 (3550-4200 MHz)	
Calibration Network Phase Deviation (°)	< 7.0		

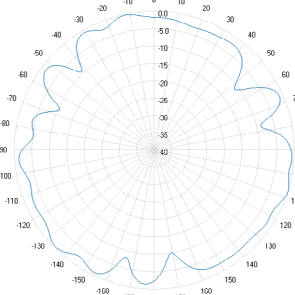
2D Antenna Patterns : Omni Ports LB EDT0° and CB EDT2°



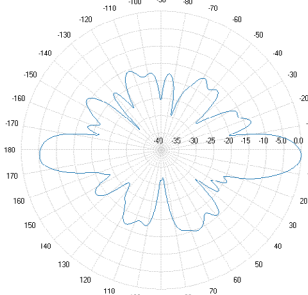
728 MHz



840 MHz



3300 MHz

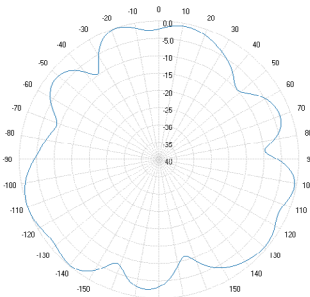


3860 MHz

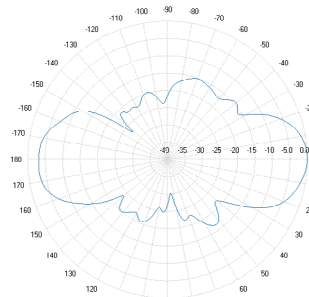
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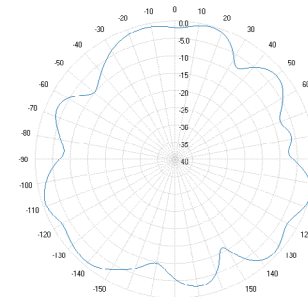
2D Antenna Patterns : Omni Ports MB EDT0° and EDT6°



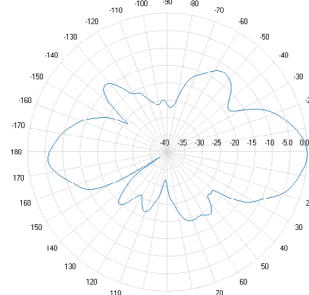
1780 MHz EDT0°



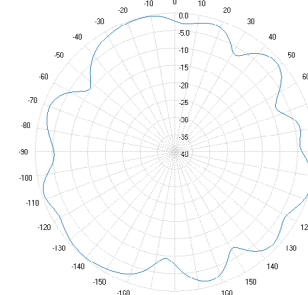
1780 MHz EDT6°



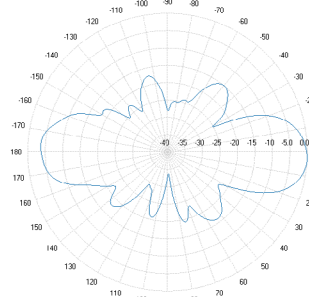
1900 MHz EDT0°



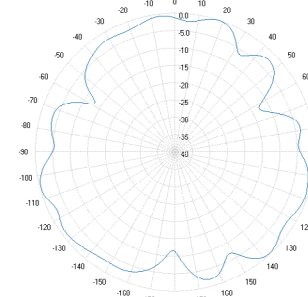
1900 MHz EDT6°



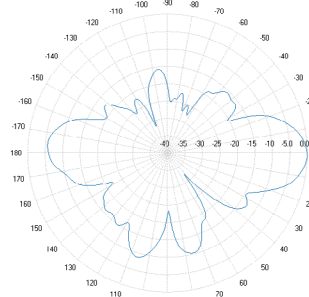
2110 MHz EDT0°



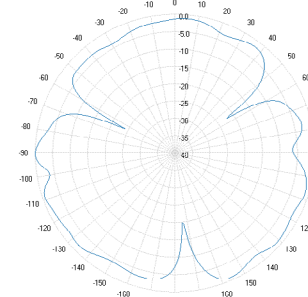
2110 MHz EDT6°



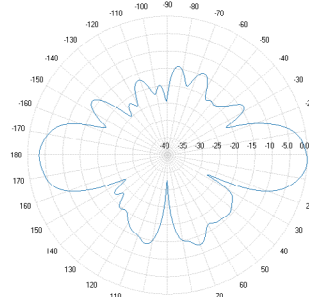
2360 MHz EDT0°



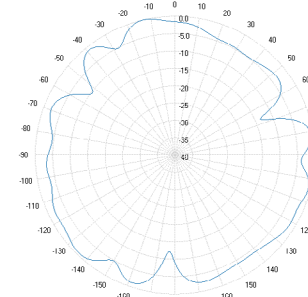
2360 MHz EDT6°



2500 MHz EDT0°



2500 MHz EDT6°

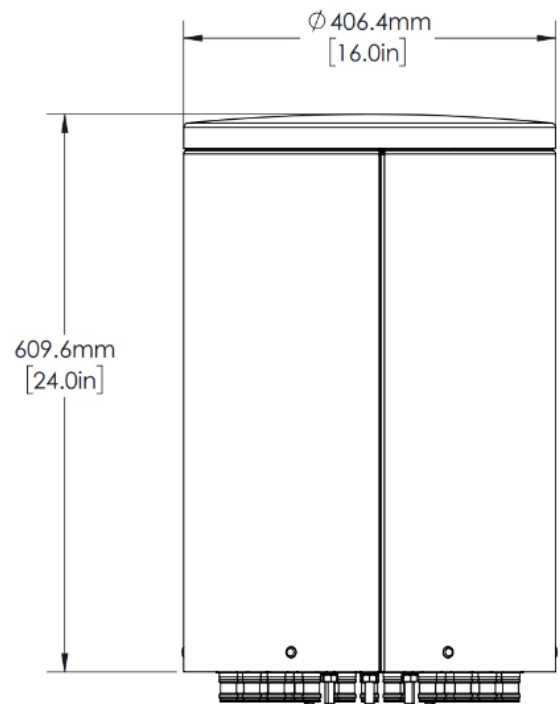
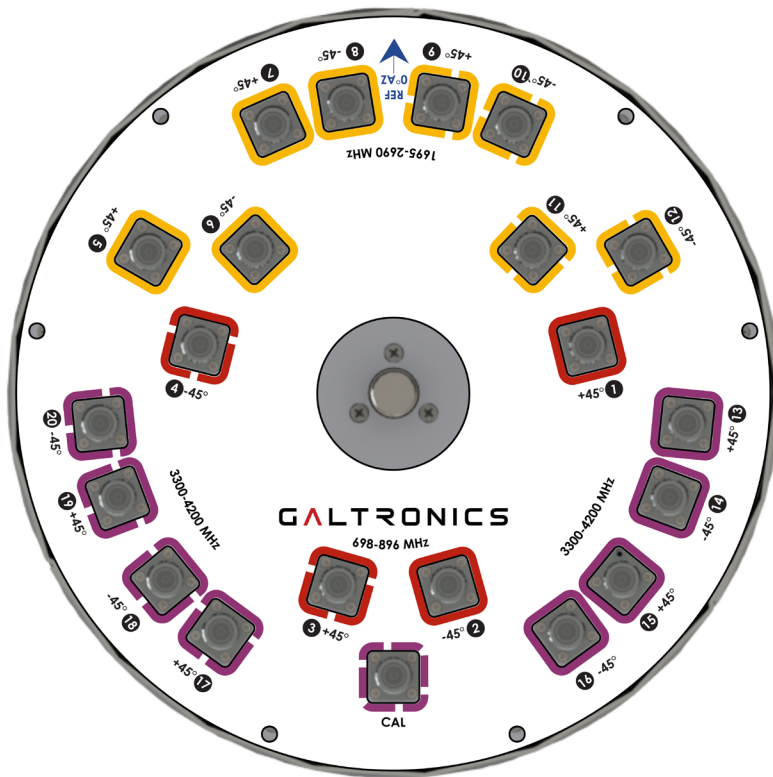


RFD#: 8325; Revision: R2; Release Date: June 12, 2026

Mechanical Specifications

Operating Temperature	-40° to 158°F (-40° to +70°C)
Antenna Weight	26.5 lbs (12.0 kg)
Mounting Bracket Weight (MK-07892)	7.5 lbs (3.4 kg)
Antenna Dimension (Height x Diameter)	24.0" (609.6 mm) x 16.0" (406.4 mm)
Connectors	20x 4.3-10(F)
Radome Material	ASA
Radome Color	Gray / Brown / Black
Environment Rating	Outdoor
Wind Survival Rating	150 mph (241 km/h)

Antenna Outline & Port Designation Details

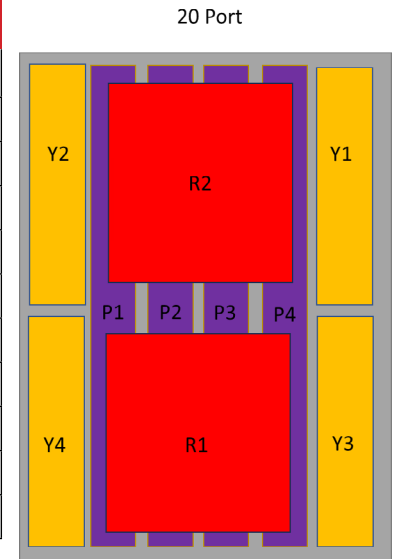


Mating Connector Torque:
4.3-10: 3.7 ft-lb (5 Nm)

Array Layout

ARRAY LAYOUT TOPOLOGY

FREQUENCY	ARRAY	CONNECTOR	CONNECTOR TYPE
698-896 MHz	R1	1-2	(2x) 4.3-10 Female
698-896 MHz	R2	3-4	(2x) 4.3-10 Female
1695-2690 MHz	Y1	5-6	(2x) 4.3-10 Female
1695-2690 MHz	Y2	7-8	(2x) 4.3-10 Female
1695-2690 MHz	Y3	9-10	(2x) 4.3-10 Female
1695-2690 MHz	Y4	11-12	(2x) 4.3-10 Female
3300-4200 MHz	P1	13-14	(2x) 4.3-10 Female
3300-4200 MHz	P2	15-16	(2x) 4.3-10 Female
3300-4200 MHz	P3	17-18	(2x) 4.3-10 Female
3300-4200 MHz	P4	19-20	(2x) 4.3-10 Female



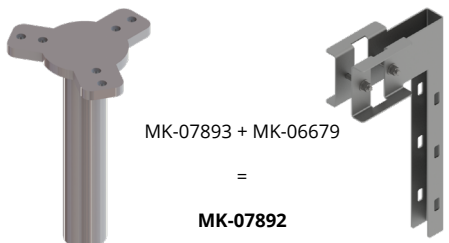
Product Part Numbers & Ordering Options

Part Number	Description	698-896 MHz	1695-2690 MHz	3300-4200 MHz	Mounting Kit
GQ2420-08325-X002	20-Port Quasi-Omni Canister Antenna with 8T8R mMIMO C-band and 20x 4.3-10(F) Connectors	0° Fixed	0° Fixed	2° Fixed	Includes MK-07892 mounting kit assemblies
GQ2420-08325-X062		0° Fixed	6° Fixed	2° Fixed	

Color Options (X)

X	Color
A	Gray (Default)
B	Brown (Optional)
C	Black (Optional)

Mounting Brackets & Optional Accessories

Description	Part Number
<p>Mounting Kit Assembly, Canister, Pole Top (wind speed of 150 mph)</p> <p>The assembly kit includes an Adapter interfae (MK-07893) for pole top installation and a Pole Top Mounting Bracket (MK-06679), which serves as a bracket base that van be attached directly to wood, metal and cement poles.</p> <p>Note: Adapter (MK-07893) and Pole Top Mounting Bracket (MK-06679) may be ordered separately.</p>	 <p>MK-07893 + MK-06679 = MK-07892</p>

RFD#: 8325; Revision: R2; Release Date: June 12, 2026