

MULTIMAX™ 5G

Up to 7-in-1 High Performance IP67/IP69K Antenna

A rugged outdoor antenna, MULTIMAX 5G is designed to provide high performance LTE and 5G connectivity for Fleet and Public Safety vehicles and assets. Equipped with up to 7 ports, this antenna is well suited for a variety of Getac applications.

FEATURES

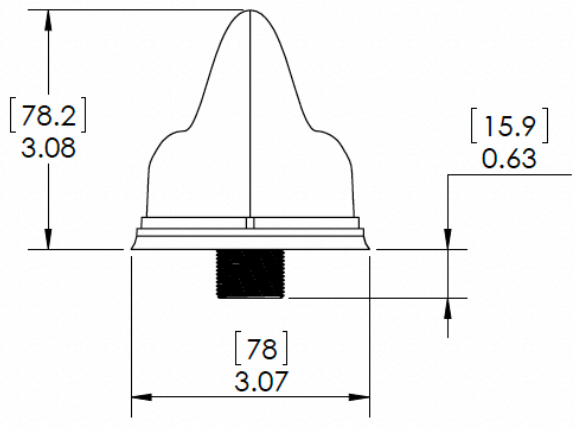
- Powerful MIMO technology
- Up to 2 x LTE/5G (600 MHz - 6 GHz) elements
- Up to 4 x Wi-Fi 6/6E/7 (2.4 & 5-7.1 GHz) elements
- Includes GNSS element
- IP67 and IP69K ingress protection
- Install on non-conductive surfaces with similar performance
- Available in black or white

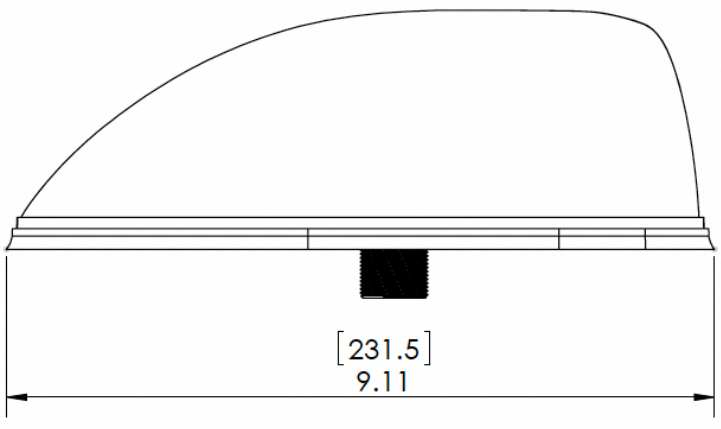
ADVANTAGES

- High efficiency provides better performance
- Omni-directional radiation pattern provides uniform coverage
- EZConnect™ cable harness allows for quick and easy customizations
- 5 year limited warranty included[1]
- Covered by one or more patents and pending applications[2]

[1]See terms and conditions at https://airgain.com/antenna plus-support/
[2]For a list of the patents covering this product please visit https://airgain.com/product-support/patents/

DIMENSIONS



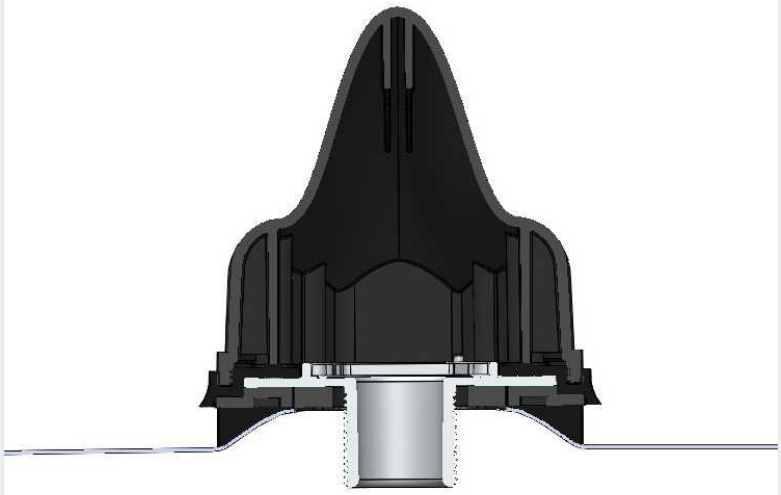


PART NUMBERS

CONFIGURATION	CELLULAR ELEMENTS	Wi-Fi ELEMENTS	GNSS	PART NUMBER *Requires EZConnect Cable Harness	DESCRIPTION
5-in-1	2	2	Yes	Airgain: *AP-MF5G-C2W2G-Q-B1 Getac: *590GBL001103	EZConnect Antenna with MIMO LTE/5G x 2, Wi-Fi x 2 & GNSS, Bolt Mount, Black, 1 foot coax
				Airgain: CH-C2W2G-1-2-1-19 Getac: 590GBL001105	EZConnect Cable Harness with Cell x 2, Wi-Fi x 2, GNSS, SMA on Cell & GNSS, RP-SMA on Wi-Fi, 19 feet length
3-in-1	0	2	Yes	Airgain: *AP-MF5G-W2G-Q-B1 Getac: 590GBL001097	EZConnect Antenna with MIMO Wi-Fi x 2 & GNSS, Bolt Mount, Black, 1 foot coax
				Airgain: *CH-W2G-2-1-19 Getac: 590GBL001099	EZConnect Cable Harness with Wi-Fi x 2, GNSS, RP-SMA on Wi-Fi, SMA on GNSS, 19 feet length
3-in-1	1	1	Yes	Airgain: *AP-MF5G-CWG-Q-B1 Getac: 590GBL001100	EZConnect Antenna with LTE/5G, Wi-Fi & GNSS, Bolt Mount, Black, 1 foot coax
				Airgain: *CH-CWG-1-1-1-19 Getac: 590GBL001102	EZConnect Cable Harness with Cell, Wi-Fi, GNSS, SMA on Cell, Wi-Fi & GNSS, 19 feet length

Also available in color white. Bolt mount includes pre-attached mounting foam for uneven surfaces[3]. For mounting instructions please visit https://www.airgain.com/installation-and-removal-guides/.

[3] Cross section with mounting foam on uneven surface (cannot be mounted between ribs of 2020+ Ford Explorer)



TECHNICAL SPECIFICATIONS

Performance results are measured in a test chamber with 1' LMR-100 cables and over a 2'x2' ground plane, results are more reliable than data from software simulations

ELECTRICAL

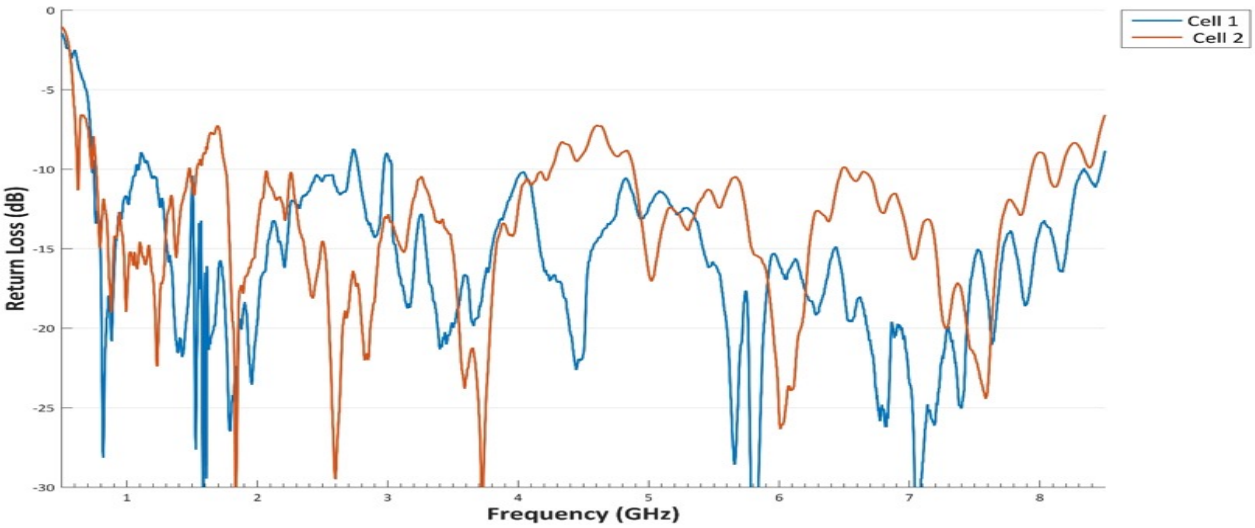
Frequency Range	Elements 1 up to 2	617-960/1700-2700/3300-4200/5150-5850 MHz
	Elements 3 up to 6	2.4/5.15-7.125 GHz
	Element 7	1550~1610 MHz
Operational Bands	Elements 1 up to 2	5G (Band 71, LTE, CBRS, LAA)
	Elements 3 up to 6	Wi-Fi 6E
	Element 7	GPS L1/GALILEO E1/GLONASS G1/BeiDou B1/QZSS L1
Peak Gain: Isotropic	Elements 1 up to 2	617-960 MHz, 4.0 dBi
		1700-2700 MHz, 4.1 dBi
		3300-4200 MHz, 4.9 dBi
		5150-5850 MHz, 5.7 dBi
	Elements 3 up to 6	2.4 GHz, 3.8 dBi
		5-7 GHz, 7.9 dBi
	Element 7	35.8 dBi
Isolation	Elements 1 up to 2	>9 dB
	Elements 3 up to 6	>15 dB
Average Efficiency	Elements 1 up to 2	617-960 MHz, >64%
		1700-2700 MHz, >71%
		3300-4200 MHz, >62%
		5150-5850 MHz, >51%
	Elements 3 up to 6	2.4 GHz, >50%
		5-7 GHz, >56%

Correlation Co-efficient	Elements 1 up to 2	617-960 MHz, <0.56
		1700-2700 MHz, <0.5
		3300-5850 MHz, <0.3
ENVIRONMENTAL		
Hazardous Substances	RoHS Compliant	
Temperature	-40°C to 85°C (-40°F to + 185°F) Operating and Storage	
Humidity (Non-Condensing)	60°C and 95% RH Operating and Storage	
Water Ingress	IP67 and IP69K	
Vibration	Conformance to MIL-STD 810G	
MECHANICAL		
Dimensions	Height	3.08” (78.2mm)
	Width	3.07” (78.0mm)
	Length	9.11” (231mm)
Color	Black (B) or White (W)	
CABLE		
Cell	Type	LMR-100 Low Loss
	Diameter	0.110” (2.79mm)
	Length	1 ft (0.3m)
	Termination	SMA Male
Wi-Fi	Type	LMR-100 Low Loss
	Diameter	0.110” (2.79mm)
	Length	1 ft (0.3m)
	Termination	SMA Female

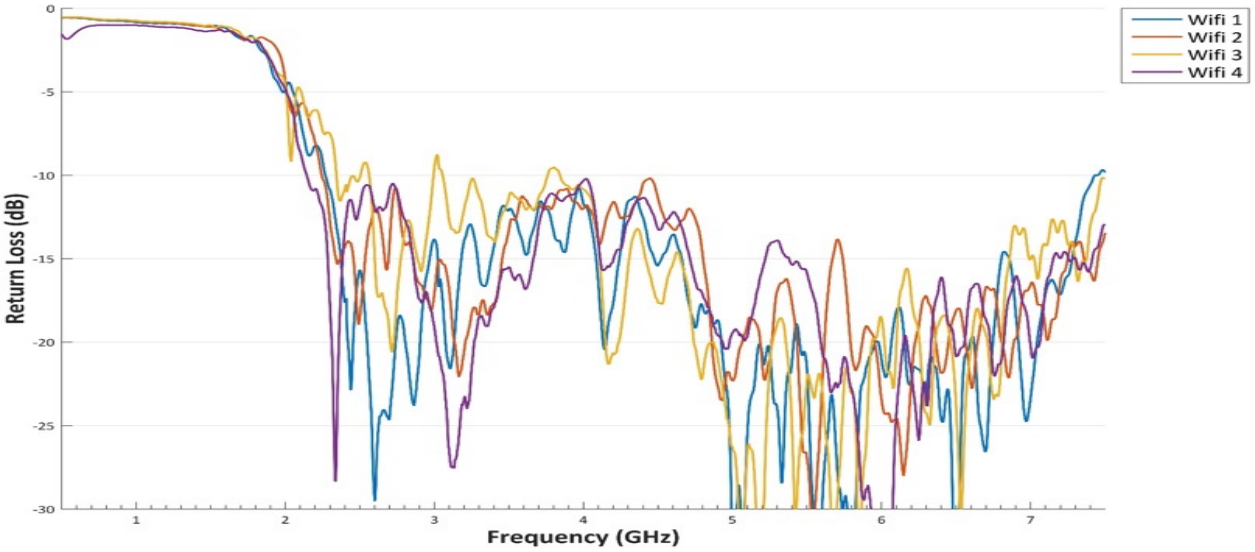
GNSS	Type	LMR-100 Low Loss
	Diameter	0.110” (2.79mm)
	Length	1 ft (0.3m)
	Termination	FME Female
GNSS		
Ceramic Patch Antenna Specification	Bandwidth	1558-1610 MHz
	Gain@Zenith	0 dBi
	Polarization	R.H.C.P.
	Axial Ratio	3.0 dB Typ.
LNA Specification	Noise Figure	1.2 dB
	Gain	35 dBi
	VSWR	<2:1
	Voltage	1.6V~10V
	Current	9+/-2mA@3.3V

Guidance for interpreting the data sheet is available on our website: https://www.airgain.com/resources/datasheet-term-guide/

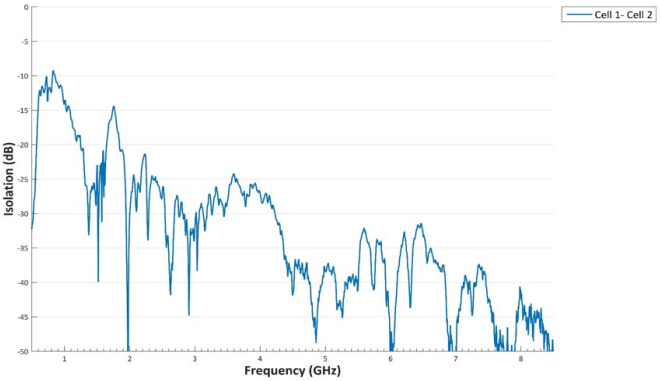
Return Loss of Cell Antennas



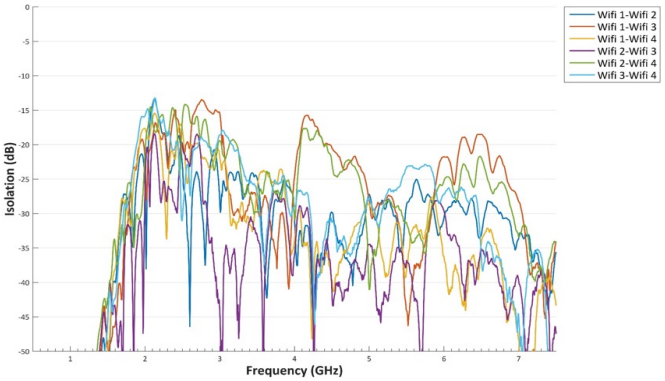
Return Loss of Wi-Fi Antennas



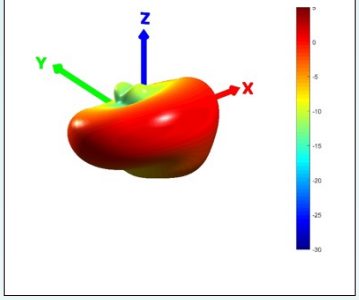
Isolation of Cell Antennas



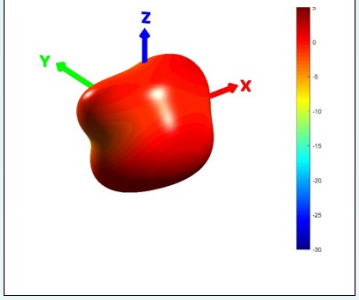
Isolation of Wi-Fi Antennas



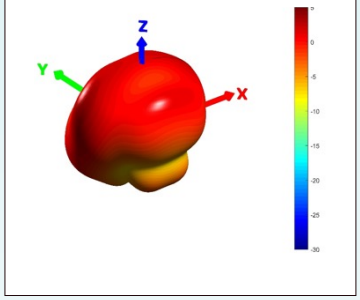
Ant1_Cell at 640MHz



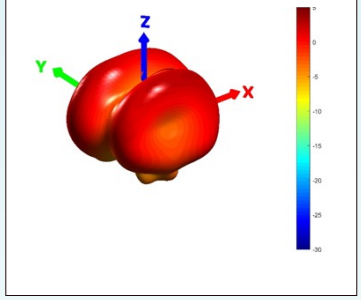
Ant1_Cell at 740MHz



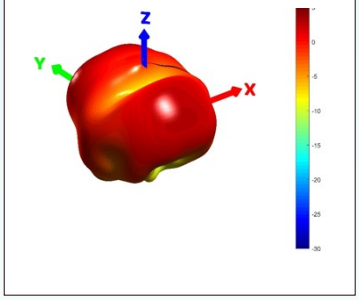
Ant1_Cell at 1900MHz



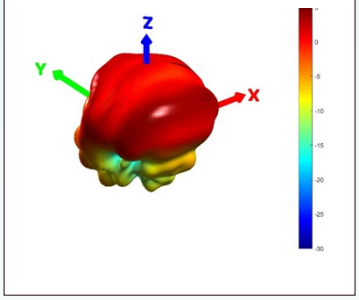
Ant1_Cell at 2200MHz



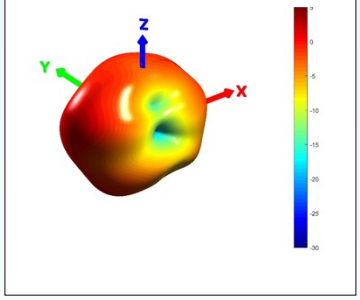
Ant1_Cell at 3700MHz



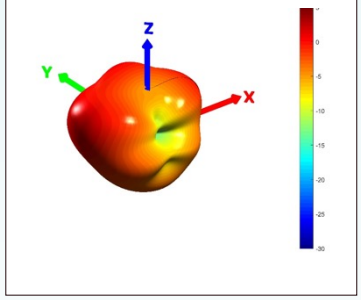
Ant1_Cell at 5500MHz



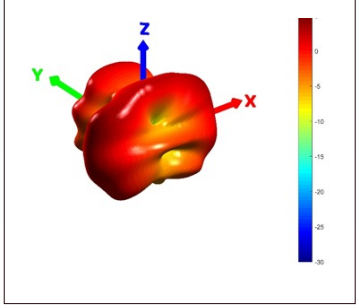
Ant2_Cell at 640MHz



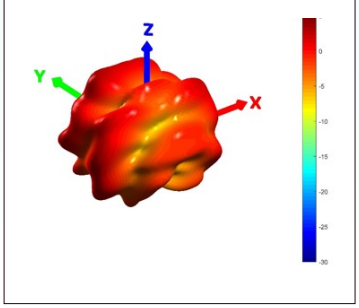
Ant2_Cell at 740MHz



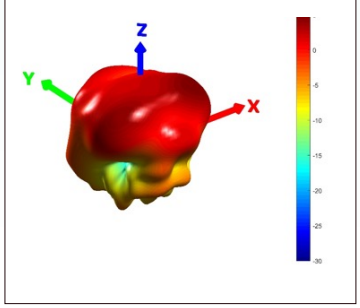
Ant2_Cell at 1900MHz



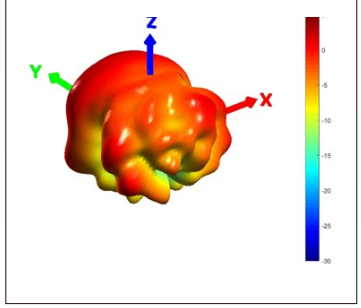
Ant2_Cell at 2200MHz



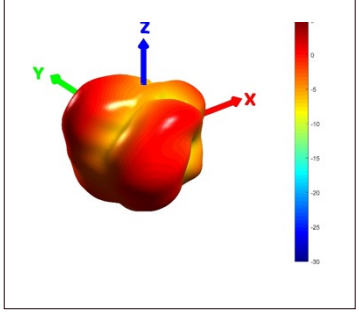
Ant2_Cell at 3700MHz



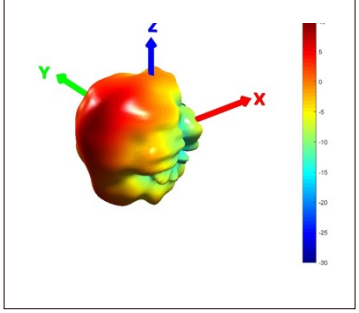
Ant2_Cell at 5500MHz



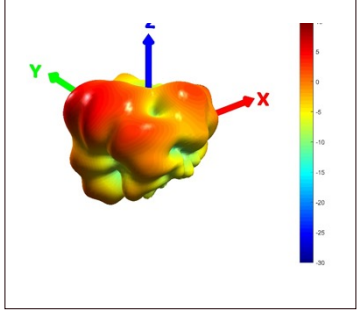
Ant1_Wi-Fi at 2450MHz



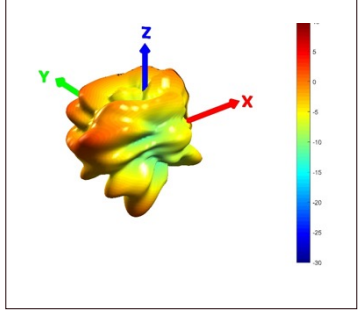
Ant1_Wi-Fi at 5500MHz



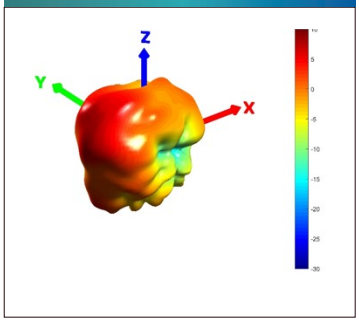
Ant1_Wi-Fi at 6500MHz



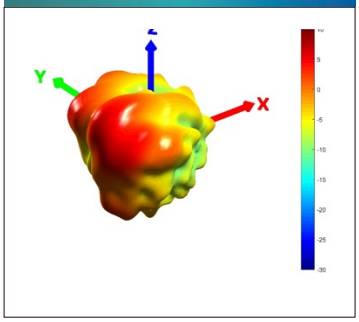
Ant2_Wi-Fi at 2450MHz



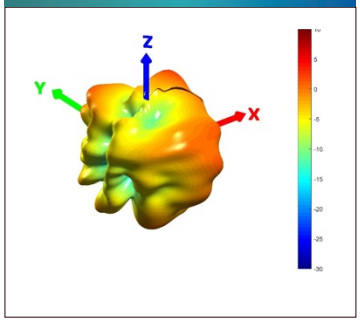
Ant2_Wi-Fi at 5500MHz



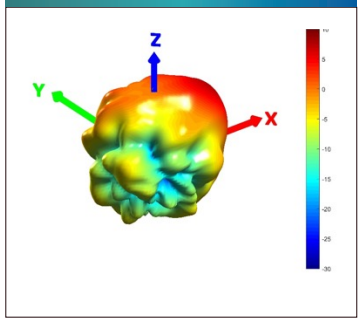
Ant2_Wi-Fi at 6500MHz



Ant3_Wi-Fi at 2450MHz



Ant3_Wi-Fi at 5500MHz



Ant3_Cell at 6500MHz	Ant4_Wi-Fi at 2450MHz	Ant4_Wi-Fi at 5500MHz	Ant4_Wi-Fi at 6500MHz
