



A rugged outdoor antenna, M2MAX is designed to provide high performance connectivity for wireless machine-to-machine applications. This antenna mounts to virtually any M2M or IoT enabled asset and requires no servicing through its lifetime.

#### KEY FEATURES

- Powerful MIMO technology
- Up to 2 x Wideband Cellular LTE elements
- Up to 2 x Wi-Fi 6 (2.4 & 5-6 GHz) elements
- Optional GNSS element
- IP67 ingress protection
- Available in black or white

#### ADVANTAGES

- Omni-directional radiation pattern provides uniform coverage
- Compatible with EZConnect™ Cable Harness
- 5-year limited warranty included<sup>1</sup>
- Covered by one or more patents and pending applications<sup>2</sup>

<sup>1</sup>See terms and conditions at <https://www.airgain.com/product-support/antenna-plus-product-support/>

<sup>2</sup>For a list of the patents covering this product please visit <https://www.airgain.com/patents/>



## Up to 5-in-1 High Performance IP67 Antenna

**COMMON PART NUMBERS (inquire to Airgain for other configurations)**

Configuration	Cellular Elements	Wi-Fi Elements	GNSS	Part Number	Description
5-in-1	2	2	Yes	AP-M2M2-CCWWG-[x]-S22222-RP34-BL-6	MIMO Cell/LTE x 2, Wi-Fi x 2 & GNSS, SMA on Cell/LTE & GNSS, RP-SMA on Wi-Fi, Black, 6 feet coax
4-in-1	2	1	Yes	AP-M2M2-CCWG-[x]-S2222-RP3-BL-6	MIMO Cell/LTE x 2, Wi-Fi x 1 & GNSS, SMA on Cell/LTE & GNSS, RP-SMA on Wi-Fi, Black, 6 feet coax
3-in-1	2	0	Yes	AP-M2M2-CCG-[x]-S222-BL-6	MIMO Cell/LTE x 2 & GNSS, SMA on Cell/ LTE & GNSS, Black, 6 feet coax
	2	1	No	AP-M2M2-CCW-[x]-S222-RP3-BL-6	MIMO Cell/LTE x 2 & Wi-Fi x 1, SMA on Cell/ LTE, RP-SMA on Wi-Fi, Black, 6 feet coax
	1	1	Yes	AP-M2M2-CWG-[x]-S222-RP2-BL-6	Cell/LTE x 1, Wi-Fi x 1 & GNSS, SMA on Cell/LTE & GNSS, RP-SMA on Wi-Fi, Black, 6 feet coax
2-in-1	2	0	No	AP-M2M2-CC-[x]-S22-BL-6	MIMO Cell/LTE x 2, SMA on Cell/LTE, Black, 6 feet coax
	1	0	Yes	AP-M2M2-CG-[x]-S22-BL-6	Cell/LTE x 1 & GNSS, SMA on Cell/LTE & GNSS, Black, 6 feet coax
	0	2	No	AP-M2M2-WW-[x]-S22-RP-BL-6	Wi-Fi x 2, RP-SMA on Wi-Fi, Black, 6 feet coax
Single Wi-Fi	0	1	No	AP-M2M2-W-[x]-S2-RP-BL-6	Wi-Fi x 1, RP-SMA on Wi-Fi, Black, 6 feet coax

Mounting Options [x] (Must be mounted on metal)	Description
Q	Threaded Bolt Mount
A	Adhesive Mount
M	Magnetic Mount

Also available in white. For mounting instructions please visit <https://www.airgain.com/installation-and-removal-guides/>.



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TECHNICAL SPECIFICATIONS

MECHANICAL

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

Dimensions	Height	2.19" (55.5mm)
	Width	2.56" (65mm)
	Length	4.84" (122.9mm)
Color	Black (BL) or White (WH)	

ELECTRICAL

Frequency Range	Elements 1 up to 2	689-960/1700-2700 MHz	GNSS		
	Elements 3 up to 4	2.4/4.9-6.0 GHz			
		Element 5 (optional)	1550~1610 MHz		Bandwidth
Operational Bands	Elements1 up to 2	LTE/Cellular	Ceramic Patch Antenna Specification	Gain@Zenith	2.5 dBi
	Elements 3 up to 4	Wi-Fi		Polarization	R.H.C.P.
	Element 5 (optional)	GPS L1/GALILEO E1/GLONASS G1/BeiDou B1/QZSS L1			
Peak Gain: Isotropic	Elements1 up to 2	698-960 MHz, 6.7 dBi		Axial Ratio	3.0 dB Typ.
		1710-2700 MHz, 5.6 dBi		Noise Figure	1.2 dB
	Elements 3 up to 4	2.4 GHz, 7.0 dBi		Gain	28 dBi
		5.5 GHz, 6.9 dBi	LNA Specification	VSWR	<2:1
	Element 5 (optional)	30.50 dBi		Voltage	3.3V~5.6V
				Current	9.6±1mA@3.3V
Isolation	Elements 1 up to 2	>6 dB			
	Elements 3 up to 4	>8 dB			
Correlation Co-efficient	Elements 1 up to 2	<0.4	Guidance for interpreting the data sheet is available on		

Guidance for interpreting the data sheet is available on our website:

<https://www.airgain.com/resources/datasheet-term-guide/>

ENVIRONMENTAL

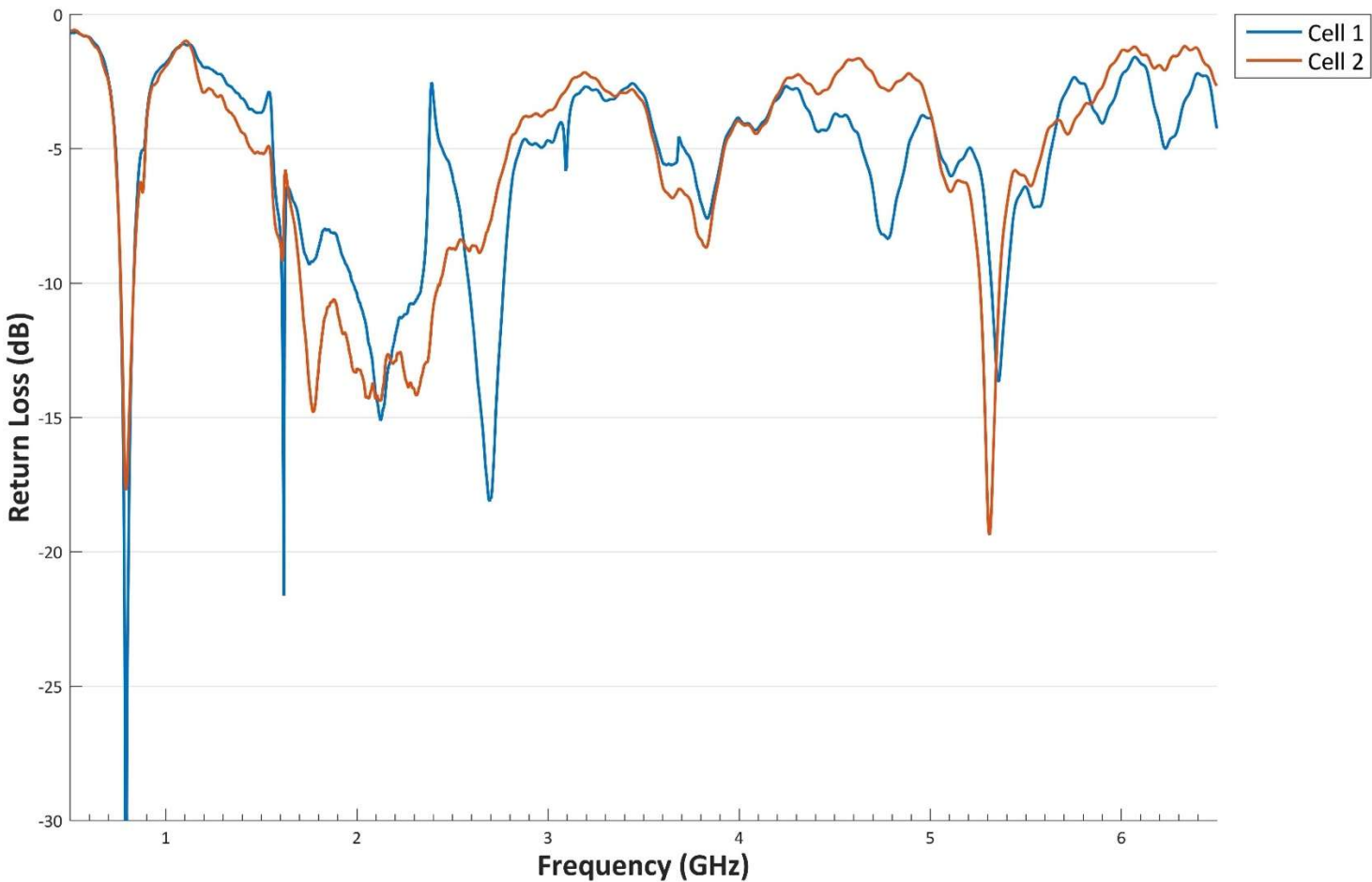
Category	Details
Hazardous Substances	RoHS Compliant
Temperature	-40°C to 65°C (-40°F to + 149°F) Operating and Storage
Humidity (Non-Condensing)	95% RH at 60°C Operating and Storage
Water Ingress	IP67
Shock and Vibration	Conformance to MIL-STD 810G



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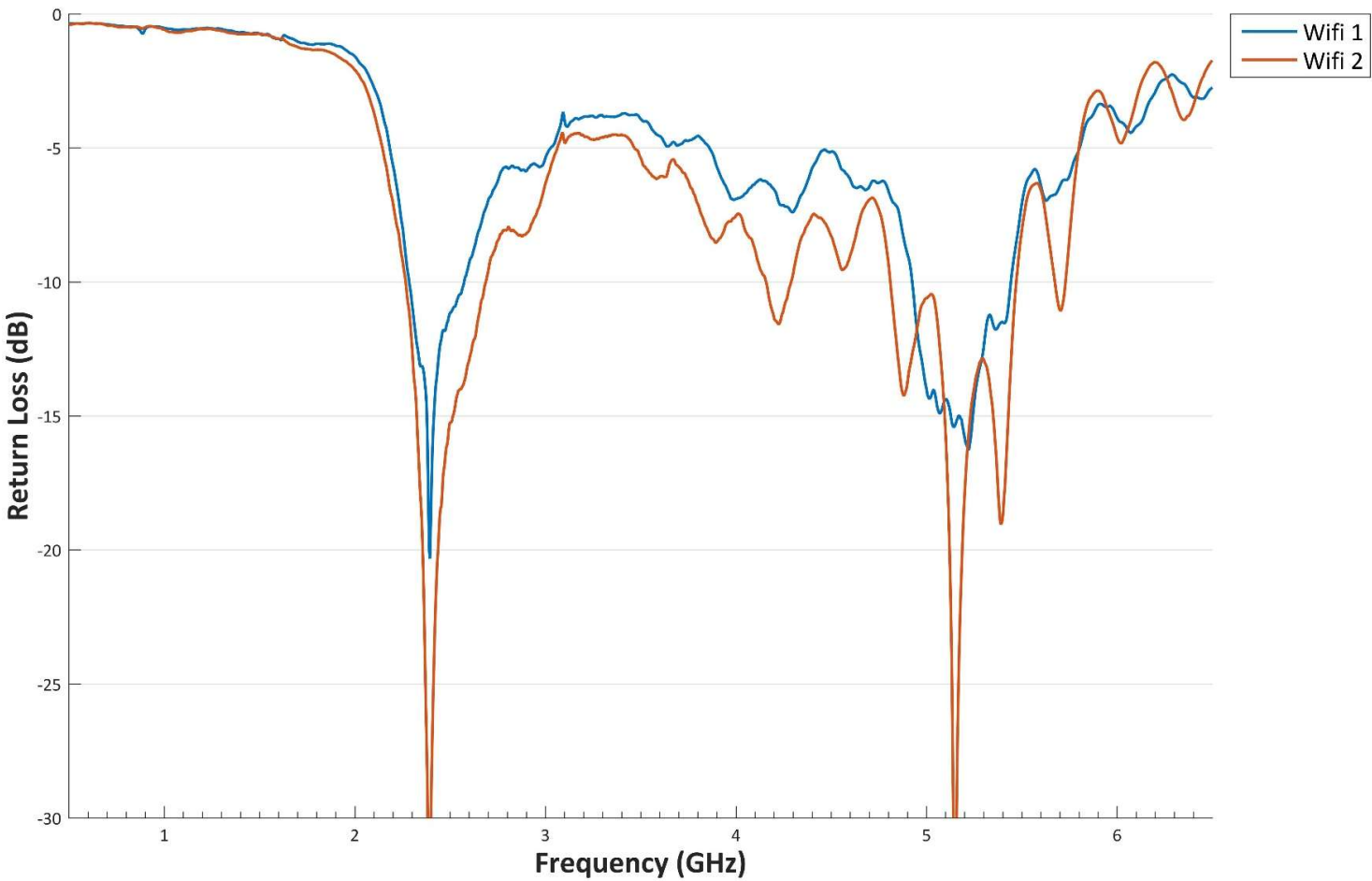
RETURN LOSS OF CELL ANTENNAS



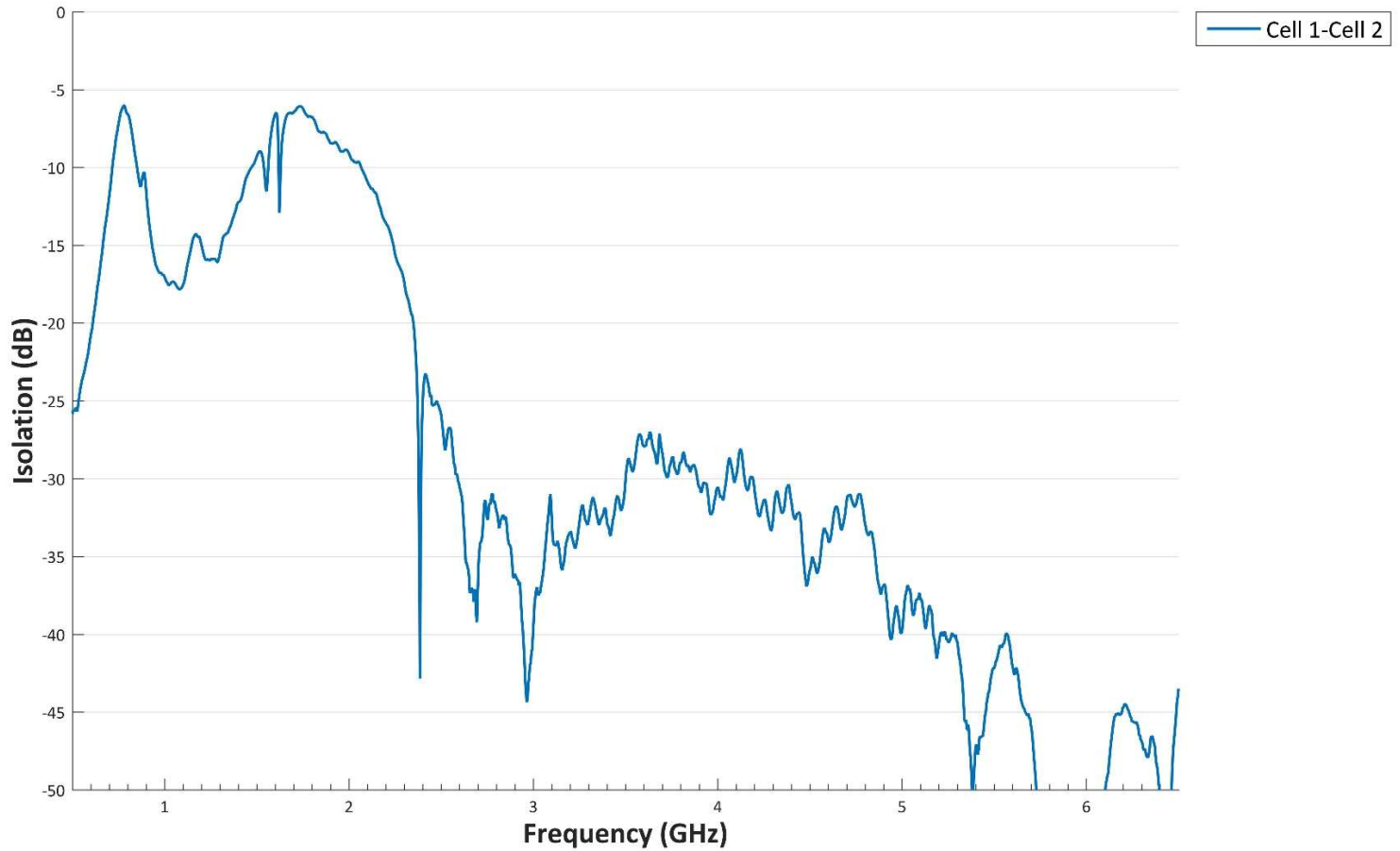
For more Information:  
[www.airgain.com](http://www.airgain.com) [sales@airgain.com](mailto:sales@airgain.com) + 1-855-AIRGAIN

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RETURN LOSS OF WIFI ANTENNAS



### ISOLATION OF LTE ANTENNAS



For more Information:

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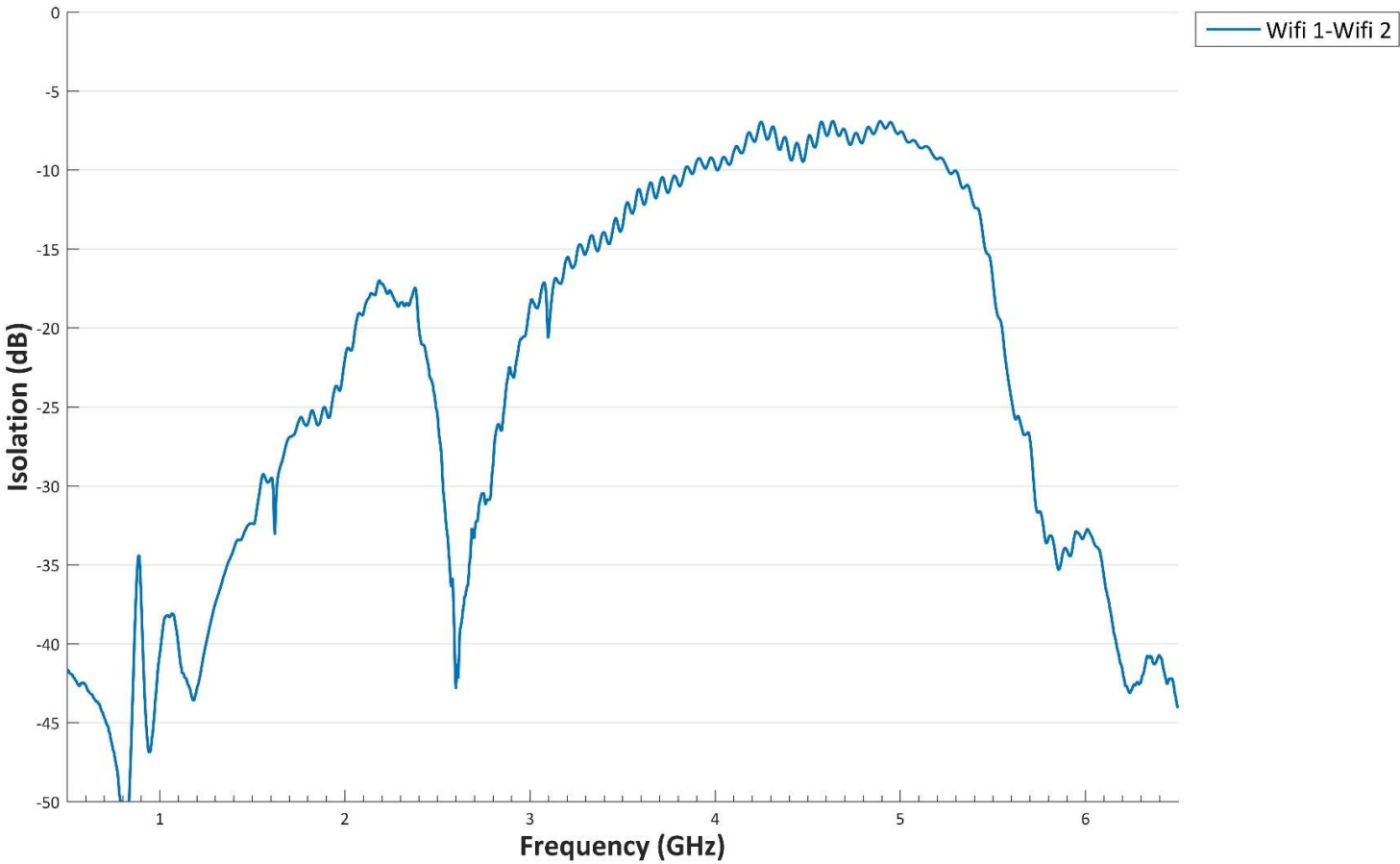
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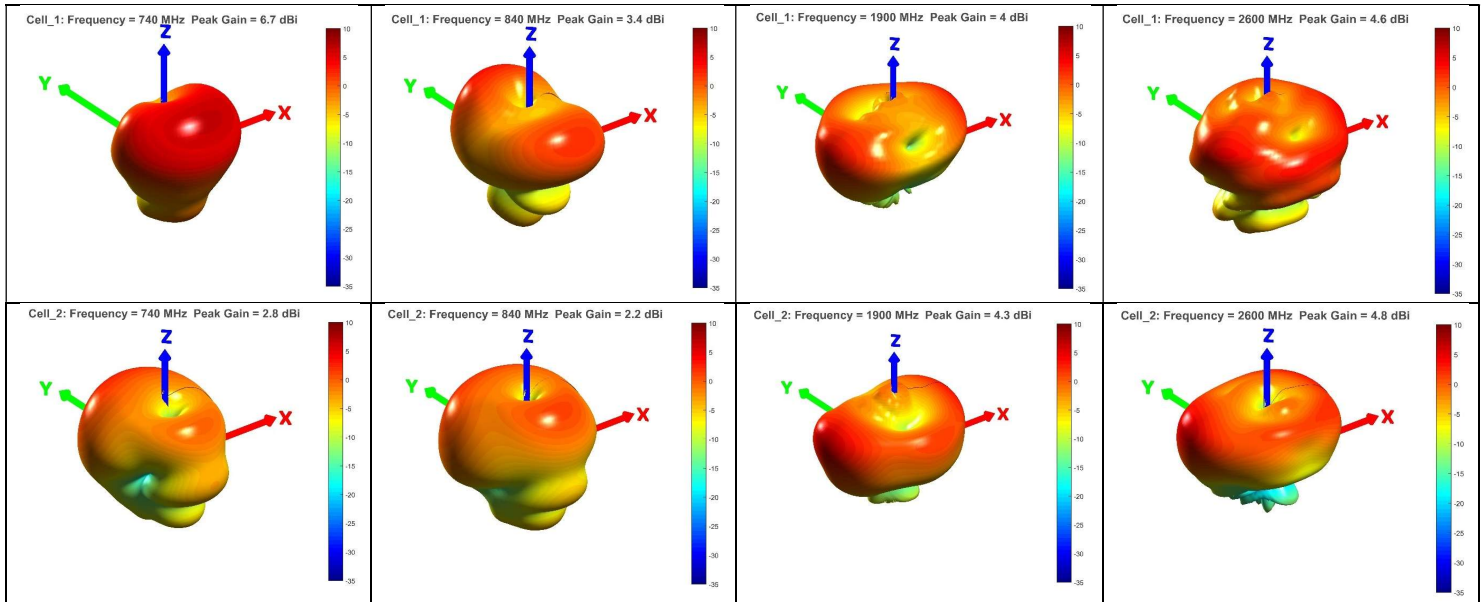
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Up to 5-in-1 High Performance IP67 Antenna

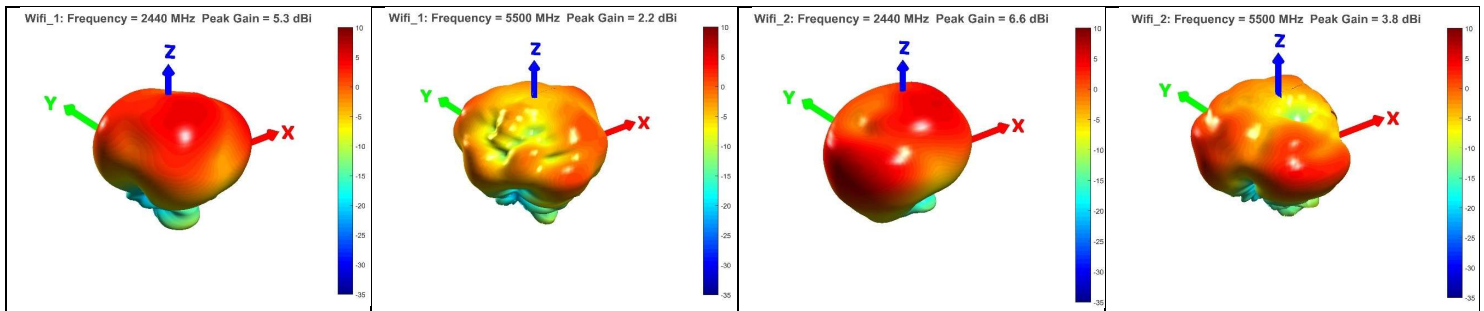
ISOLATION OF WI-FI ANTENNA



### 3D RADIATION PATTERNS – CELL



### 3D RADIATION PATTERNS – WIFI



For more Information:

[www.airgain.com](http://www.airgain.com) [sales@airgain.com](mailto:sales@airgain.com) + 1-855-AIRGAIN

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