



CENTURION™ 5G

Up to 9-in-1 High Performance External IP67 Antenna

A rugged outdoor antenna, CENTURION 5G is designed to provide high performance LTE and 5G connectivity for Fleet and Public Safety vehicles and assets. Equipped with up to 9 ports, this antenna connects to virtually any vehicular router or modem.

The CENTURION 5G builds on the best-in-class RF performance, leading design features, and extended operational life of Airgain's highly successful Fleet and Public Safety Antenna products. Like all our antennas, this product features a rugged design to withstand the most common natural hazards a vehicle can face, including (but not limited to): vibration, hot, cold, ice, salt, dirt, car washes, and tree branch sweeps.

FEATURES

- Up to nine embedded antenna elements with powerful MIMO technology that operate over multiple bands in one IP67 rated housing
- Up to 4 x Wideband Cellular 5G (600 MHz - 6 GHz) elements with multiple carrier switching, including support for FirstNet™ on LTE Band 14, Band 71 for T-Mobile, CBRS, and LAA
- Up to 4 x 2.4 & 5.15-7.125 GHz Wi-Fi elements supporting Wi-Fi 6, Wi-Fi 6E, and Wi-Fi 7 for full HD streaming video and other high bandwidth applications
- Optional GNSS element
- Available in black or white

ADVANTAGES

- High gain provides bigger cellular footprint
- EZConnect™ configuration option allows for compatibility with customized EZConnect Cable Harness from a USA factory ensuring fast turnaround
- 5 year limited warranty included¹
- Covered by one or more patents and pending applications²

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

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

PART NUMBER(S)

CONFIGURATION	CELLULAR ELEMENTS	WI-FI ELEMENTS	GNSS	PART NUMBER *Requires EZConnect Cable Harness	DESCRIPTION
9-in-1	4	4	Yes	*AP-CT5G-C4W4G-[x]-B1	EZConnect Antenna with MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi x 4 & GNSS, Black, 1 foot coax
				Inquire to distributor	EZConnect Cable Harness with MIMO/Cell x 4, Wi-Fi x 4, GNSS, SMA on Cell & GNSS, RP-SMA on Wi-Fi, 14 feet length
				AP-NEXT-C4W4G-[x]-SMA-RP5678-BL-15	MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi x 4 & GNSS, SMA on Cell/5G & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax

8-in-1	4	3	Yes	*AP-CT5G-C4W3G-[x]-B1	EZConnect Antenna with MIMO 5G (600 MHz-6 GHz) x 3 Wi-Fi x 4 & GNSS, Black, 1 foot coax
				Inquire to distributor	EZConnect Cable Harness with MIMO/Cell x 4, Wi-Fi x 3, GNSS, SMA on Cell & GNSS, RP-SMA on Wi-Fi, 14 feet length
				AP-NEXT-C4W3G-[x]-SMA-RP567-BL-15	MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi x 3 & GNSS, SMA on Cell/5G & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
7-in-1	4	2	Yes	*AP-CT5G-C4W2G-[x]-B1	EZConnect Antenna with MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi x 2 & GNSS, Black, 1 foot coax
				Inquire to distributor	EZConnect Cable Harness with MIMO/Cell x 4, Wi-Fi x 2, GNSS, SMA on Cell & GNSS, RP-SMA on Wi-Fi, 14 feet length
				AP-NEXT-C4W2G-[x]-SMA-RP56-BL-15	MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi x 2 & GNSS, SMA on Cell/5G & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
6-in-1	2	3	Yes	*AP-CT5G-C2W3G-[x]-B1	EZConnect Antenna with MIMO 5G (600 MHz-6 GHz) x 2, Wi-Fi x 3 & GNSS, Black, 1 foot coax
				Inquire to distributor	EZConnect Cable Harness with MIMO/Cell x 2, Wi-Fi x 3, GNSS, SMA on Cell & GNSS, RP-SMA on Wi-Fi, 14 feet length
				AP-NEXT-C2W3G-[x]-SMA-RP345-BL-15	MIMO 5G (600 MHz-6 GHz) x 2, Wi-Fi x 3 & GNSS, SMA on Cell/5G & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
5-in-1	2	2	Yes	*AP-CT5G-C2W2G-[x]-B1	EZConnect Antenna with MIMO 5G (600 MHz-6 GHz) x 2, Wi-Fi x 2 & GNSS, Black, 1 foot coax
				Inquire to distributor	EZConnect Cable Harness with MIMO/Cell x 2, Wi-Fi x 2, GNSS, SMA on Cell & GNSS, RP-SMA on Wi-Fi, 14 feet length
				AP-NEXT-C2W2G-[x]-SMA-RP34-BL-15	MIMO 5G (600 MHz-6 GHz) x 2, Wi-Fi x 2 & GNSS, SMA on Cell/5G & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
4-in-1	2	1	Yes	*AP-CT5G-C2WG-[x]-B1	EZConnect Antenna with MIMO 5G (600 MHz-6 GHz) x 2, Wi-Fi & GNSS, Black, 1 foot coax
				Inquire to distributor	EZConnect Cable Harness with MIMO/Cell x 2, Wi-Fi x 1, GNSS, SMA on Cell & GNSS, RP-SMA on Wi-Fi, 14 feet length
				AP-NEXT-C2WG-[x]-SMA-RP3-BL-15	MIMO 5G (600 MHz-6 GHz) x 2, Wi-Fi x 1 & GNSS, SMA on Cell/5G & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
3-in-1	2	0	Yes	*AP-CT5G-C2G-[x]-B1	EZConnect Antenna with MIMO 5G (600 MHz-6 GHz) x 2, & GNSS, Black, 1 foot coax
				Inquire to distributor	EZConnect Cable Harness with MIMO/Cell x 2, GNSS, SMA on Cell & GNSS, 14 feet length
				AP-NEXT-C2G-[x]-SMA-BL-15	MIMO 5G (600 MHz-6 GHz) x 2 & GNSS, SMA on Cell/5G & GNSS, Black, 15ft coax

2-in-1	2	0	No	*AP-CT5G-C2-[x]-B1	EZConnect Antenna with MIMO 5G (600 MHz-6 GHz) x 2, Black, 1 foot coax
				Inquire to distributor	EZConnect Cable Harness with MIMO/Cell x 2, SMA on Cell, 14 feet length
				AP-NEXT-C2-[x]-SMA-BL-15	MIMO 5G (600 MHz-6 GHz) x 2, SMA on Cell/5G, Black, 15 ft coax

MOUNTING OPTIONS [x] (Must be mounted on metal)	DESCRIPTION
Q	Threaded Bolt Mount
QR	Threaded Bolt Mount with Modified Gasket for 2020 Ford Explorer
A	Adhesive Mount
AR	Adhesive Mount with Modified Gasket for 2020 Ford Explorer
M	Magnetic Mount

Also available in color white, customizable cable lengths up to 35 feet, and other variations.

TECHNICAL SPECIFICATIONS

ELECTRICAL (Performance results are measured in a test chamber with 1' LMR-195 cables and over a 2'x2' ground plane)

Frequency Range	Elements 1 up to 4	617-960/1700-2700/3300-4200/5150-5850 MHz
	Elements 5 up to 8	2.4/5.15-7.125 GHz
	Element 9 (optional)	1560~1610 MHz
Operational Bands	Elements 1 up to 4	5G (Band 71, LTE, CBRS, LAA)
	Elements 5 up to 8	Wi-Fi
	Element 9 (optional)	GPS L1/GALILEO E1/GLONASS G1/BeiDou B1/QZSS L1
Peak Gain: Isotropic	Elements 1 up to 4	617-960 MHz, 6.2 dBi
		1700-2700 MHz, 6.6 dBi
		3300-4200 MHz, 9.3 dBi
		5150-5850 MHz, 7.2 dBi
	Elements 5 up to 8	2.4 GHz, 5-7 GHz, 4.8 dBi, 8.3 dBi
	Element 9 (optional)	33.85 dBi
Isolation	Elements 1 up to 4	>7 dB
	Elements 5 up to 8	>22 dB
Correlation Co-efficient	Elements 1 up to 4	<0.1

ENVIRONMENTAL

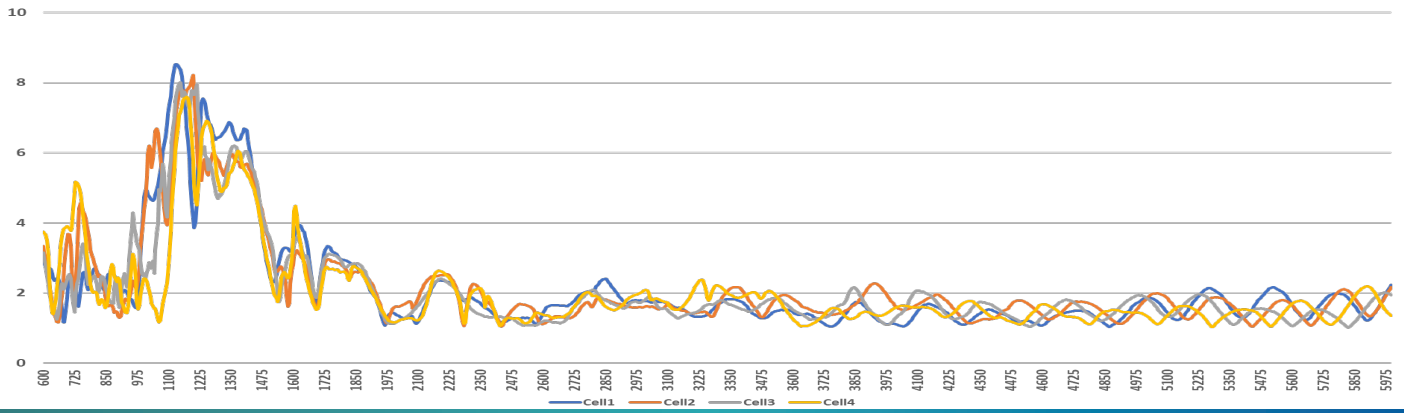
Hazardous Substances	RoHS Compliant
Temperature	-40°C to 70°C (-40°F to + 158°F) Operating, -40°C to 85°C (-40°F to + 185°F) Storage
Humidity (Non-Condensing)	5% to 96% Operating and Storage conformance to IEC 60068
Water Ingress	IP67
Military Spec	MIL-STD 810 conformance to vibration

MOUNTING

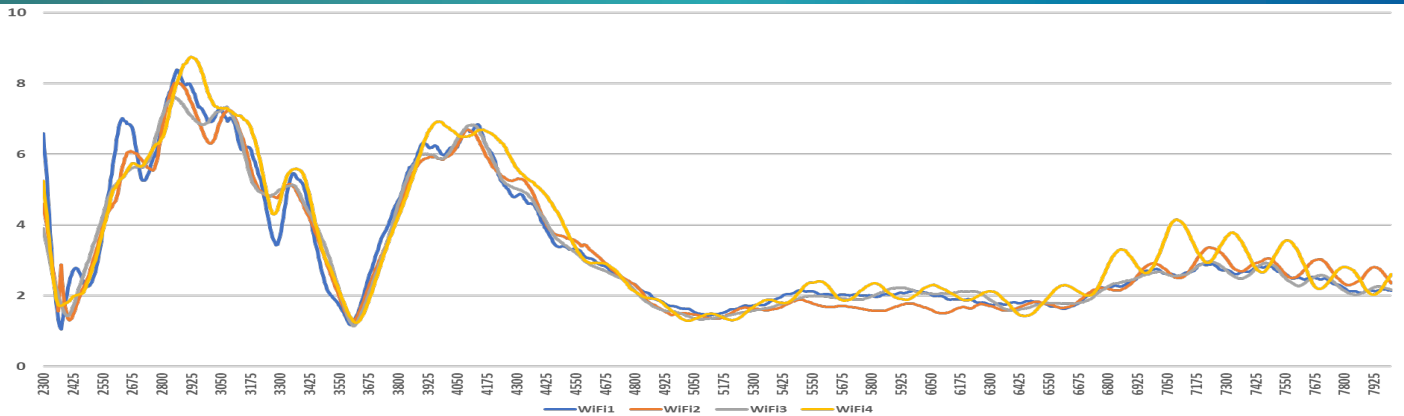
Dimensions	Height	3.26" (82.7mm)
	Width	4.47" (113.6mm)

	Length	7.32" (186mm)	
Color	Black (BL) or White (WH)		
CABLE		STANDARD	EZConnect
Cell	Type	LMR-195 Low Loss	LMR-100 Low Loss
	Diameter	0.195" (4.953mm)	0.110" (2.79mm)
	Length	1 ft (0.3m)	1 ft (0.3m)
	Termination	SMA Male	SMA Male
Wi-Fi	Type	LMR-195 Low Loss	LMR-100 Low Loss
	Diameter	0.195" (4.953mm)	0.110" (2.79mm)
	Length	1 ft (0.3m)	1 ft (0.3m)
	Termination	RP-SMA Male	SMA Female
GNSS	Type	RG-174U	LMR-100 Low Loss
	Diameter	0.100" (2.54mm)	0.110" (2.79mm)
	Length	1 ft (0.3m)	1 ft (0.3m)
	Termination	SMA Male	FME Female
GNSS			
Ceramic Patch Antenna Specification	Bandwidth	1561-1602 MHz	
	Gain@Zenith	2.5 dBi	
	Polarization	R.H.C.P.	
	Axial Ratio	3.0 dB Typ.	
LNA Specification	Noise Figure	1.2 dB	
	Gain	28 dBi	
	Voltage	3.3V~5.6V	
	Current	9.6±1mA@3.3V	

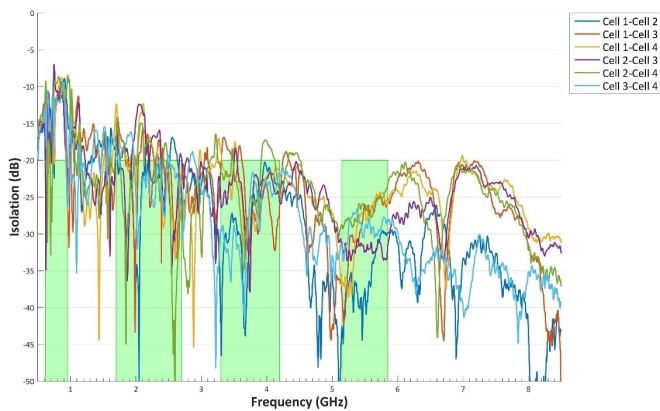
VSWR of 5G Antennas



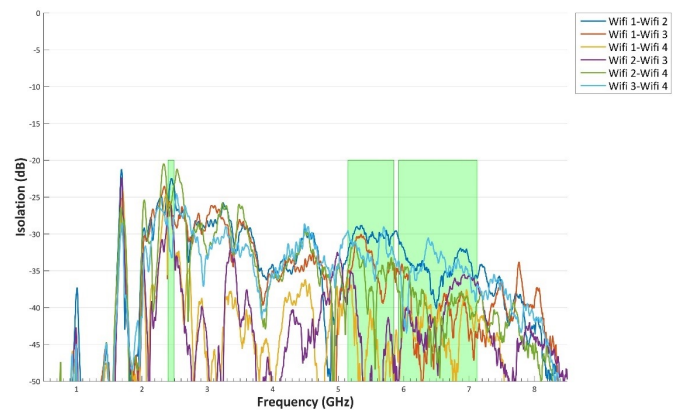
VSWR of Wi-Fi Antennas



Isolation of 5G Antennas



Isolation of Wi-Fi Antennas



VSWR of GNSS Antenna

