

CENTURION™

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

CENTURION is a full outdoor antenna equipped with nine ports, designed specifically to provide high performance connectivity for Fleet and Public Safety vehicles and assets connecting to almost any vehicular router or modem. This antenna is configurable and offers up to four high gain cellular/LTE/MIMO antennas, which include support for LTE Band 14 for FirstNet, up to four high gain Wi-Fi antennas, and an optional GNSS antenna inside a single robust and compact housing. This antenna has been designed to support the vehicular routers which support multiple carrier switching and provides the ultimate in Wi-Fi support.

- Up to 4 x Wideband Cellular/LTE Elements (MIMO)
- Up to 4 x 2.4 & 4.9-6 GHz Wi-Fi Elements (MIMO)
- Optional GNSS Element
- Up to nine embedded antenna technologies that operate over multiple bands in one housing
- Leading LTE performance while in coexistence with multiple other embedded antenna technologies
- High gain provides bigger cellular footprint
- Must be mounted on metal
- Available in black or white
- US Patent 10109918

Descriptions/Applications

The CENTURION antenna builds on the best in class RF performance, leading design features, and extended operational life of our highly successful Fleet and Public Safety Antenna products. Like all our antennas, this product has been designed to be robust to withstand the natural hazards a vehicle faces including vibration, hot, cold, ice, salt, dirt, car washes, and tree branch sweeps. Our antennas typically outlast the life of a vehicle.



Optimal MIMO Performance for LTE



Compact and Robust UV Resistant Housing



Full Outdoor Installation Ready



Customizable Cables and Connectors to Connect to Any Modem



Flexible Mounting Options



GNSS



Low loss cable accessories



Fast custom turnaround time



Bolt Mount



Adhesive Mount



Magnetic Mount

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

Standard Configurations

Configuration	Cellular Elements	Wi-Fi Elements	GNSS	Part Number	Description
9-in-1	4	4	Yes	AP-C4W4G-[x]-SMA-RP5678-BL	MIMO Cell/LTE x 4, Wi-Fi x 4 & GNSS, SMA on Cell/LTE & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
8-in-1	4	3	Yes	AP-C4W3G-[x]-SMA-RP5678-BL	MIMO Cell/LTE x 4, Wi-Fi x 3 & GNSS, SMA on Cell/LTE & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
7-in-1	4	2	Yes	AP-C4W2G-[x]-SMA-RP5678-BL	MIMO Cell/LTE x 4, Wi-Fi x 2 & GNSS, SMA on Cell/LTE & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
7-in-1	2	4	Yes	AP-C2W4G-[x]-SMA-RP3456-BL	MIMO Cell/LTE x 2, Wi-Fi x 4 & GNSS, SMA on Cell/LTE & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
5-in-1	0	4	Yes	AP-W4G-[x]-SMA-RP1234-BL	Wi-Fi x 4, SMA on GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
4-in-1	0	4	No	AP-W4-[x]-SMA-RP1234-BL	Wi-Fi x 4, RP-SMA on Wi-Fi, Black, 15ft coax

Mounting Options [x]	
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.

Electrical Data			
Frequency Range	Elements 1 up to 4	698-960/1700-2700 MHz	
	Elements 5 up to 8	2.4/4.9-6.0 GHz	
	Element 9 (optional)	1550~1610 MHz	
Operational Bands	Elements 1 up to 4	LTE/Cellular	
	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	698-960 MHz	4 dBi
		1710-2700 MHz	7 dBi
	Elements 5 up to 8	2.4 GHz, 5.5 GHz	7 dBi, 4 dBi
	Element 9 (optional)	30.50 dBi	
Isolation	Elements 1 up to 4	> 15 dB	
	Elements 5 up to 8	> 30 dB	
Correlation Co-efficient	Elements 1 up to 4	< 0.1	

Environmental Data	
Hazardous Substances	RoHS Compliant
Temperature	-40°C to 65°C (-40°F to + 149°F) Operating and Storage conformance to IEC 60068
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 Data		
Dimensions	Height	2.27" (57.7mm)
	Width	4.47" (113.6mm)
	Length	7.32" (186mm)
Color	Black (BL) or White (WH)	

Cable Data- Cell/LTE		Cable Data- Wi-Fi		Cable Data- GNSS	
Type	CFD195 Low Loss	Type	CFD195 Low Loss	Type	RG-174U
Diameter	0.195" (4.953 mm)	Diameter	0.195" (4.953 mm)	Diameter	0.100" (2.54 mm)
Length	1 feet (0.3 m)	Length	1 feet (0.3 m)	Length	1 feet (0.3 m)
Termination	SMA Male	Termination	RP-SMA Male	Termination	SMA Male

GNSS Data - Ceramic Patch Antenna Specification	
Bandwidth	1561 – 1602 MHz
Gain@Zenith	2.5 dBi
Polarization	R.H.C.P.
Axial Ratio	3.0 dB Typ.

GNSS Data - LNA Specification	
Noise Figure	1.2 dB
Gain	28 dBi
Voltage	3.3V~5.6V
Current	9.6±1mA@3.3V

