

CENTURION™ Next 9-in-1

High Performance External IP67 Antenna

CENTURION Next 9-in-1 is a full outdoor antenna, designed specifically to provide high performance LTE and 5G connectivity for Fleet and Public Safety vehicles and assets. Equipped with 9 ports, this antenna connects to almost any vehicular router or modem. Delivering powerful MIMO technology, this configurable antenna offers up to 4 high gain Cellular/5G (600 MHz to 6 GHz) antennas and includes support for LTE Band 14 for FirstNet™, Band 71 for T-Mobile, CBRS, and LAA. The CENTURION Next also supports 4 high gain tri-band Wi-Fi antennas for the new 6 GHz ISM band for Wi-Fi 6 (802.11ax) including Wi-Fi 6E, and a GNSS element inside a single robust and compact housing. This antenna has been designed for the next generation of vehicular 5G routers with multiple carrier switching. The CENTURION Next provides the ultimate in Wi-Fi support for full HD streaming video and other high bandwidth applications.

- Nine embedded antenna technologies that operate over multiple bands in one IP67 rated housing
- 4 x Wideband Cellular 5G (600 MHz-6 GHz) Elements (MIMO)
- 4 x 2.4 & 5.15-7.125 GHz Wi-Fi 6 capable Elements (MIMO)
- 1 x GNSS Element
- Leading LTE/5G performance while in coexistence with multiple other embedded antenna technologies
- Lower profile and smaller footprint than competing solutions
- High gain provides bigger cellular footprint
- USA factory ensures fast turnaround customizations
- Must be mounted on metal
- Available in black or white
- US Patent 10109918

Descriptions/Applications

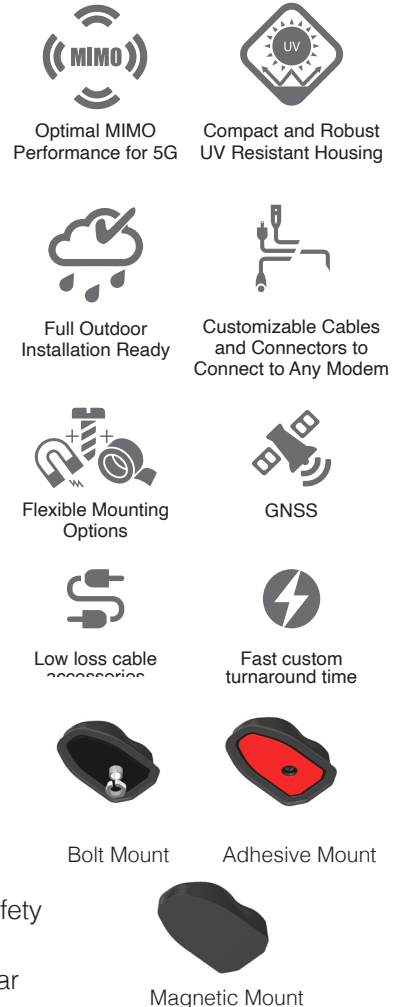
The CENTURION Next 9-in-1 antenna builds on the best in class RF performance, leading design features, and extended operational life of our highly successful Fleet and Public Safety Antenna products. Like all our antennas, this product has been designed to be robust to withstand the natural hazards a vehicle faces including vibration, hot, cold, ice, salt, dirt, car washes, and tree branch sweeps. Our antennas typically outlast the life of a vehicle.

Standard Configurations

AP-NEXT-C4W4G-Q-SMA-RP5678-BL-15	MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
AP-NEXT-C4W4G-QR-SMA-RP5678-BL-15	MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount w/ modified gasket for 2020 Ford Explorer, SMA on Cell/5G & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
AP-NEXT-C4W4G-A-SMA-RP5678-BL-15	MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Adhesive Mount, SMA on Cell/5G & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax
AP-NEXT-C4W4G-M-SMA-RP5678-BL-15	MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Magnetic Mount, SMA on Cell/5G & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax

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

Note: The P/N with -QR- is for an option with a modified gasket for Ford Explorer 2020 Model and above.



Electrical Data			
Frequency Range	Elements 1, 2, 3 & 4	600-960/1700-2700/3300-4300/5150-5850 MHz	
	Elements 5, 6, 7 & 8	2.4/5.15-7.125 GHz	
	Element 9	1550~1610 MHz	
Operational Bands	Elements 1, 2, 3 & 4	5G (Band 71, LTE, CBRS, LAA)	
	Elements 5, 6, 7 & 8	Wi-Fi	
	Element 9	GPS L1/GALILEO E1/GLONASS G1/BeiDou B1/QZSS L1	
Peak Gain: Isotropic	Elements 1, 2, 3 & 4	600-960 MHz	3.9 dBi
		1710-2700 MHz	6.4 dBi
		3300-4300 MHz	9.3 dBi
		5150-5850 MHz	8.9 dBi
	Elements 5, 6, 7 & 8	2.4 GHz, 5-7 GHz	4 dBi, 7 dBi
	Element 9	30.50 dBi	
Isolation	Elements 1, 2, 3 & 4	> 15 dB	
	Elements 5, 6, 7 & 8	> 30 dB	
Correlation Co-efficient	Elements 1, 2, 3 & 4	< 0.1	

Environmental Data	
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 Data		
Dimensions	Height	3.26" (82.7 mm)
	Width	4.47" (113.6 mm)
	Length	7.32" (186 mm)
Color	Black (BL) or White (WH)	

Cable Data- Cellular		Cable Data- Wi-Fi		Cable Data- GNSS	
Type	CFD195 Low Loss	Type	LMR 100	Type	RG-174U
Diameter	0.195" (4.953 mm)	Diameter	0.100" (2.54 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		GNSS Data - LNA Specification	
Bandwidth	1561 – 1602 MHz	Noise Figure	1.2 dB
Gain@Zenith	2.5 dBi	Gain	28 dB
Polarization	R.H.C.P.	Voltage	3.3V~5.6V
Axial Ratio	3.0 dB Typ.	Current	9.6±1mA@3.3V