



CENTURION™ Next 3-in-1

High Performance External IP67 Antenna for Getac



CENTURION Next 3-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 three ports, this antenna connects to almost any vehicular router or modem. Delivering powerful technology, this configurable antenna offers one high gain Cellular/5G (600 MHz to 6 GHz) antenna and includes support for LTE Band 14 for FirstNet™, Band 71 for T-Mobile, CBRS, and LAA. The CENTURION Next also supports one high gain tri-band Wi-Fi antenna 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.

- Three embedded antenna technologies that operate over multiple bands in one IP67 rated housing
- 1 x Wideband Cellular 5G (600 MHz-6 GHz) Elements (MIMO)
- 1 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

Optimal MIMO Performance for 5G

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

Descriptions/Applications

The CENTURION Next 3-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-GTC-NEXT-CWG-Q-BL-19	Cell/LTE/5G, Wi-Fi, GNSS, Threaded Bolt Mount, 19ft coax with SMA connectors, Black
AP-GTC-NEXT-CWG-Q-WH-19	Cell/LTE/5G, Wi-Fi, GNSS, Threaded Bolt Mount, 19ft coax with SMA connectors, White

Electrical Data			
Frequency Range	Element 1	600-960/1700-2700/3550-3700/5150-5850 MHz	
	Element 2	2.4/5.15-7.125 GHz	
	Element 3	1550~1610 MHz	
Operational Bands	Element 1	5G (Band 71, LTE, CBRS, LAA)	
	Element 2	Wi-Fi	
	Element 3	GPS L1/GALILEO E1/GLONASS G1/BeiDou B1/QZSS L1	
Peak Gain: Isotropic	Element 1	600-960 MHz	3 dBi
		1710-2700 MHz	5 dBi
		3550-3700 MHz	6 dBi
	Element 2	5150-5850 MHz	7 dBi
		2.4 GHz, 5-7 GHz	4 dBi, 7 dBi
		Element 3	30.50 dBi

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