

# ULTRAMAX™ GLASS

## High Performance 4-in-1 Windshield Mount Antenna

ULTRAMAX GLASS is a windshield mount antenna, 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 offers two high gain cellular/LTE/ MIMO antennas, which include support for LTE Band 14 for FirstNet, a high gain Wi-Fi, and a GPS antenna inside a single robust and compact housing.

- 2 x Wideband Cellular/LTE Elements (MIMO)
- 2.4 & 4.9-6GHz Wi-Fi Element (MIMO)
- GPS & GLONASS Element
- Four 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
- Available in black



Optimal MIMO  
Performance for LTE



Compact and Robust  
UV Resistant Housing



GPS



Customizable Cables  
and Connectors to  
Connect to Any Modem



Fast custom  
turnaround time



Low loss cable  
accessories

### Descriptions/Applications

The ULTRAMAX GLASS 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. This antenna can be mounted on either the windshield or on the dashboard of any fleet or public safety vehicle.

### Standard Configurations

Configuration	Cellular Elements	Wi-Fi Elements	GNSS	Part Number	Description
4-in-1	2	1	Yes	<b>AP-GL-CCWG-BL-10</b>	MIMO Cell/LTE x 2, Wi-Fi x 1 & GNSS, Adhesive Mount, SMA on Cell/LTE & GNSS, RP-SMA on Wi-Fi, Black, 10ft coax

Electrical Data			
Frequency Range	Elements 1 & 2	698-960/1700-2700 MHz	
	Element 3	2.4/4.9-6.0 GHz	
	Element 4	1575.42/1620 MHz	
Operational Bands	Elements 1 & 2	LTE/Cellular	
	Element 3	Wi-Fi	
	Element 4	GPS L1/GLONASS G1	
Peak Gain: Isotropic	Elements 1 & 2	698-960 MHz	3.5 dBi
		1710-2700 MHz	4.5 dBi
	Element 3	2.4 GHz, 5.5 GHz	7 dBi, 5 dBi
	Element 4	30.5 dBi	
Isolation	Elements 1 & 2	> 10 dB	
	Element 3	> 30 dB	
Correlation Co-efficient	Elements 1 & 2	< 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
Military Spec	MIL-STD 810 conformance to vibration

Mounting Data		
Dimensions	Height	0.67" (17.02mm)
	Width	2.26" (57.40mm)
	Length	6.79" (172.47mm)
Color	Black (BL)	

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

GPS Data - Ceramic Patch Antenna Specification		GPS Data - LNA Specification	
Bandwidth	1575.42 – 1602 MHz	Noise Figure	1.2 dB
Gain@Zenith	2.5 dBi	Gain	28 dBi
Polarization	R.H.C.P.	Voltage	3.3V~5.6V
Axial Ratio	3.0 dB Typ.	Current	9.6±1mA@3.3V