



ULTRAMAX™ Glass

4-in-1 High Performance Windshield Mount Antenna

ULTRAMAX Glass is designed to provide high performance connectivity for Fleet and Public Safety vehicles and assets. This antenna can be mounted on either the windshield or the dashboard and connects to virtually any vehicular router or modem.

FEATURES

- Includes four embedded antenna elements with powerful MIMO technology that operate over multiple bands in a single compact housing
- Up to 2 x Wideband Cellular LTE elements, with support for FirstNet™ on LTE Band 14
- 2.4 & 4.9-6 GHz Wi-Fi element
- GNSS element
- Available in black

ADVANTAGES

- High gain provides bigger cellular footprint
- 5 year limited warranty included¹

¹See terms and conditions at airgain.com/antenna-plus-support/

PART NUMBER(S)

CONFIGURATION	CELLULAR ELEMENTS	Wi-Fi ELEMENTS	GNSS	PART NUMBER	DESCRIPTION
4-in-1	2	1	Yes	AP-GL-CCWG-BL-10	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

TECHNICAL SPECIFICATIONS

ELECTRICAL

Frequency Range	Elements 1 & 2	689-960/1700-2700 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

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

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

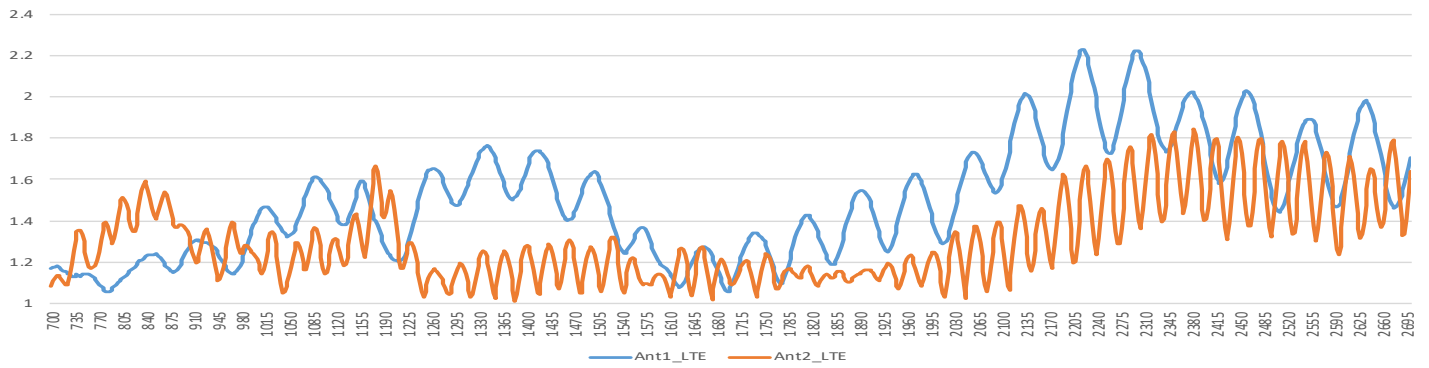
CABLE

Cell	Type	LMR-195 Low Loss
	Diameter	0.195" (4.953mm)
	Length	1 ft (0.3m)
	Termination	SMA Male
Wi-Fi	Type	LMR-195 Low Loss
	Diameter	0.195" (4.953mm)
	Length	1 ft (0.3m)
	Termination	RP-SMA Male
GNSS	Type	RG-174U
	Diameter	0.100" (2.54mm)
	Length	1 ft (0.3m)
	Termination	SMA Male

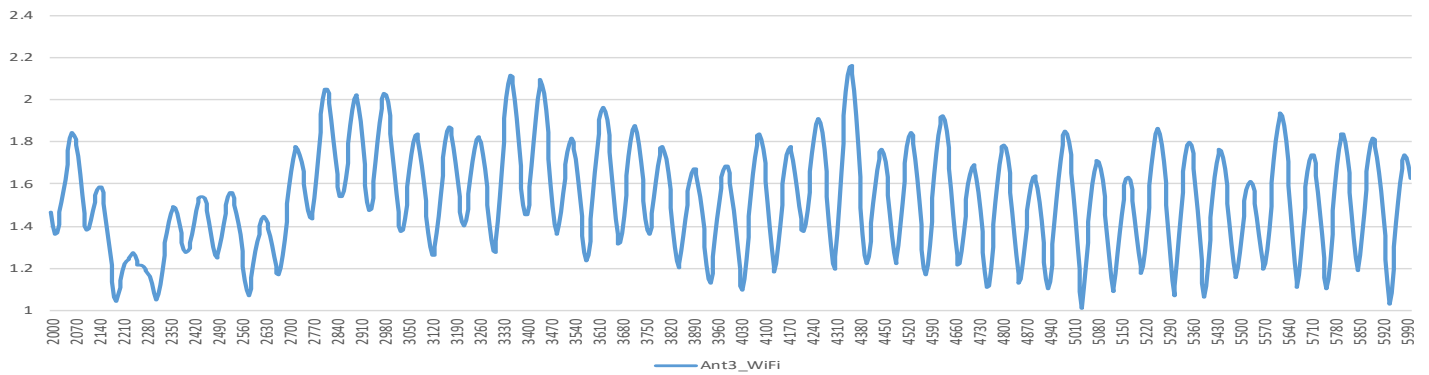
GPS

Ceramic Patch Antenna Specification	Bandwidth	1575.42-1602 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

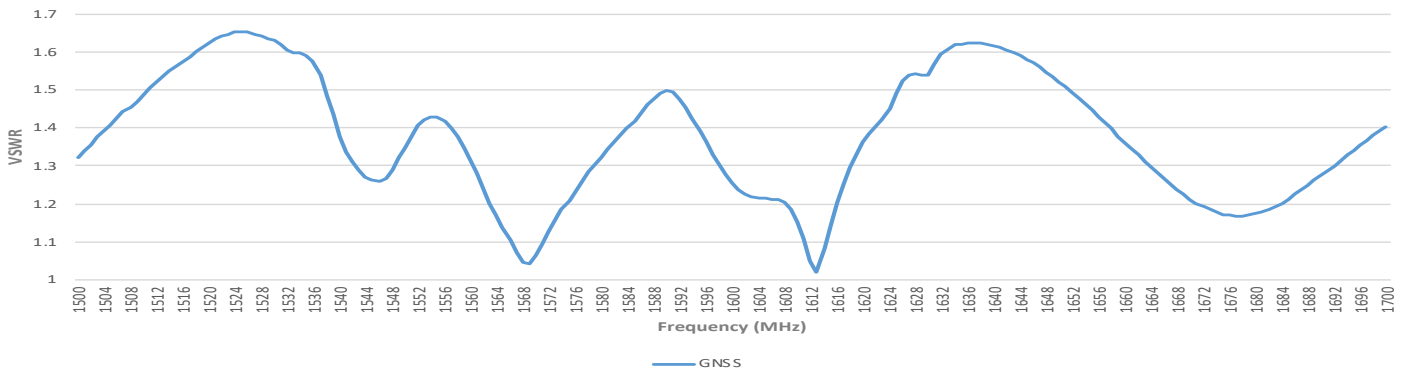
VSWR of LTE Antennas



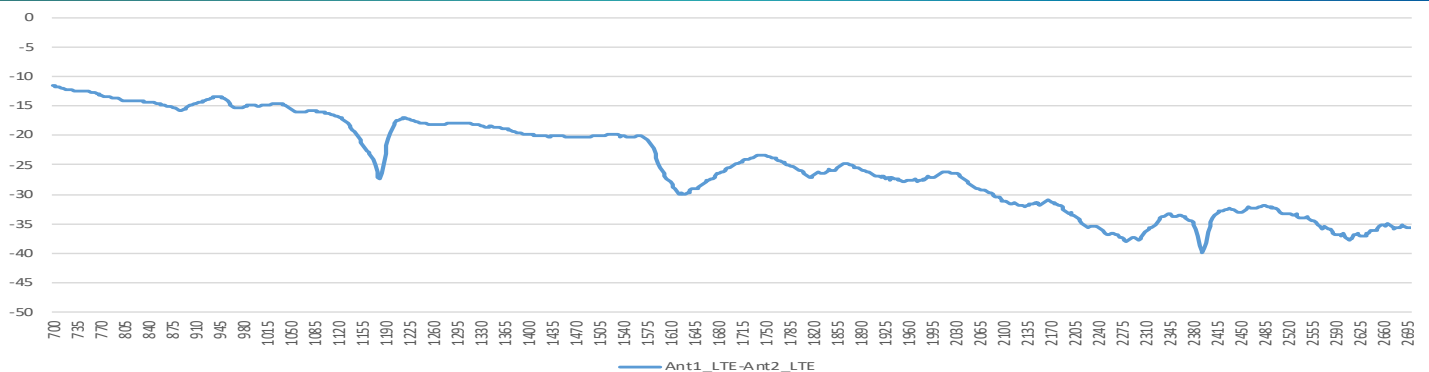
VSWR of Wi-Fi Antennas



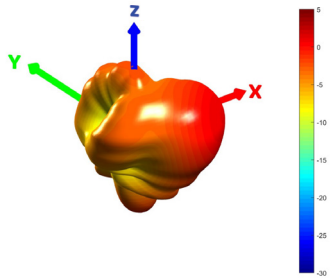
VSWR of GNSS Antennas



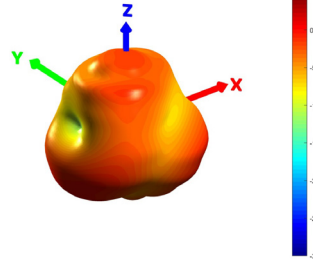
Isolation of LTE Antennas



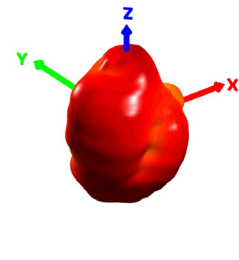
Ant1_LTE at 830MHz



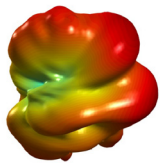
Ant2_LTE at 830MHz



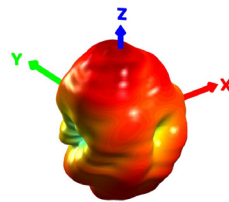
Ant1_LTE at 1960MHz



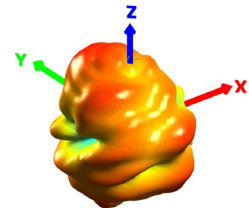
Ant2_LTE at 1960MHz



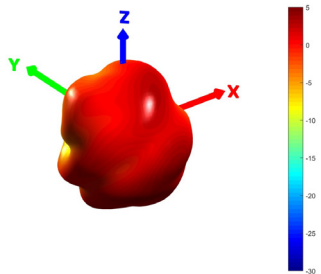
Ant1_LTE at 2600MHz



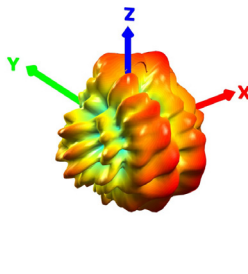
Ant2_LTE at 2600MHz



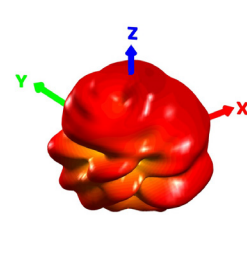
Ant3_Wi-Fi at 2.44GHz



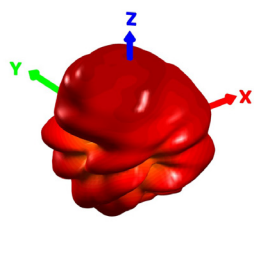
Ant3_Wi-Fi at 5.5GHz



Ant4_GNSS at 1561.1 MHz



Ant4_GNSS at 1575.42 MHz



Ant4_GNSS at 1575.42 MHz

