

ULTRAMAX™ Glass 5G

Up to 5-in-1 High Performance Windshield Mount Antenna

ULTRAMAX Glass 5G is designed to provide high performance LTE and 5G 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

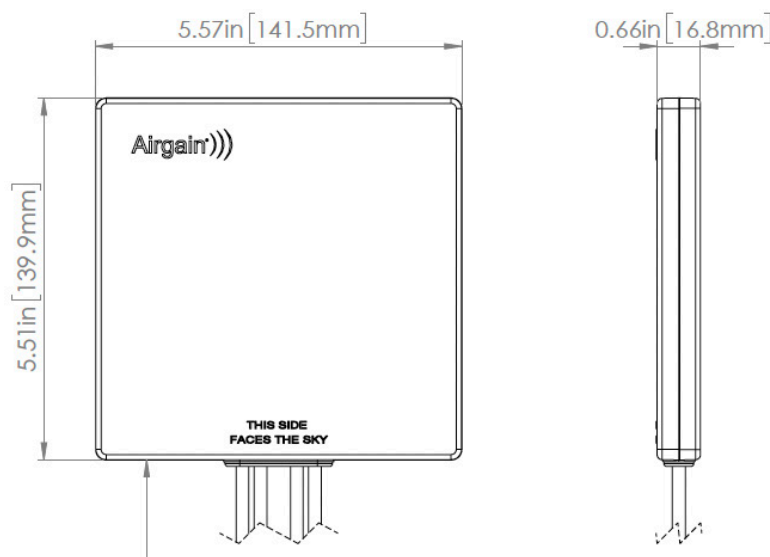
- Powerful MIMO technology
- Up to 4 x LTE/5G (600 MHz - 6 GHz) elements
- Up to 4 x Wi-Fi 6/6E/7 (2.4 & 5-7.1 GHz) elements
- Optional GNSS element
- Available in black

ADVANTAGES

- High efficiency provides better performance
- Omni-directional radiation pattern provides uniform coverage
- Hidden inside the vehicle
- Avoid drilling any holes
- 5 year limited warranty included¹

¹See terms and conditions at <https://airgain.com/antenna-plus-support/>

DIMENSIONS



COMMON PART NUMBERS (inquire to Airgain for other configurations)

| CONFIGURATION | CELLULAR ELEMENTS | Wi-Fi ELEMENTS | GNSS | PART NUMBER | DESCRIPTION |
|---------------|-------------------|----------------|------|---------------------|---|
| 5-in-1 | 4 | 0 | Yes | AP-GL5G-C4G-BL-10 | MIMO LTE/5G (600 MHz-6 GHz) x 4 & GNSS, Adhesive Mount, SMA on Cell & GNSS, Black, 10ft LMR195 coax |
| 5-in-1 | 2 | 2 | Yes | AP-GL5G-C2W2G-BL-10 | MIMO LTE/5G (600 MHz-6 GHz) x 2, Wi-Fi x 2 & GNSS, Adhesive Mount, SMA on Cell & GNSS, RP-SMA on Wi-Fi, Black, 10ft LMR195 coax |
| 5-in-1 | 0 | 4 | Yes | AP-GL5G-W4G-BL-10 | MIMO Wi-Fi x 4 & GNSS, Adhesive Mount, RP-SMA on Wi-Fi, SMA on GNSS, Black, 10ft LMR195 coax |
| 4-in-1 | 4 | 0 | No | AP-GL5G-C4-BL-10 | MIMO LTE/5G (600 MHz-6 GHz) x 4, Adhesive Mount, SMA on Cell, Black, 10ft LMR195 coax |
| 4-in-1 | 2 | 1 | Yes | AP-GL5G-C2WG-BL-10 | MIMO LTE/5G (600 MHz-6 GHz) x 2, Wi-Fi x 1 & GNSS, Adhesive Mount, SMA on Cell & GNSS, RP-SMA on Wi-Fi, Black, 10ft LMR195 coax |

For mounting instructions please visit <https://www.airgain.com/installation-and-removal-guides/>.

TECHNICAL SPECIFICATIONS

Performance results are measured in a test chamber with 1' LMR-195 cables,
results are more reliable than data from software simulations

ELECTRICAL

| | | |
|--------------------------|----------------------|--|
| Frequency Range | Elements 1 up to 4 | 617-960/1700-2700/3300-4200/5150-5850 MHz |
| | Elements 1 up to 4 | 2.4/5.15-7.125 GHz |
| | Element 5 (optional) | 1550~1610 MHz |
| Operational Bands | Elements 1 up to 4 | 5G (Band 71, LTE, CBRS, LAA) |
| | Elements 1 up to 4 | Wi-Fi 6E |
| | Element 5 (optional) | GPS L1/GALILEO E1/GLONASS G1/BeiDou B1/QZSS L1 |
| Peak Gain: Isotropic | Elements 1 up to 4 | 617-960 MHz: 4.1 dBi |
| | | 1700-2700 MHz: 4.8 dBi |
| | | 3300-4200 MHz: 4.7 dBi |
| | | 5150-5850 MHz: 6.0 dBi |
| | Elements 1 up to 4 | 2.4 GHz, 4.4 dBi |
| | | 5-7 GHz, 5.6 dBi |
| Element 5 (optional) | 35.8 dBi | |
| Isolation | Elements 1 up to 4 | 617-960 MHz: >6.3 dB |
| | | 1700-2700 MHz: >14.8 dB |
| | | 3300-4200 MHz: >17.1 dB |
| | | 5150-5850 MHz: >22.6 dB |
| | Elements 1 up to 4 | 2.4 GHz, >21.6 dB |
| | | 5-7 GHz, >25.3 dB |
| Correlation Co-efficient | Elements 1 up to 4 | 617-960 MHz: <0.60 |
| | | 1700-2700 MHz: <0.25 |
| | | 3300-4200 MHz: <0.20 |
| | | 5150-5850 MHz: <0.20 |

ENVIRONMENTAL

| | |
|---------------------------|--|
| Hazardous Substances | RoHS Compliant |
| Temperature | -40°C to 85°C (-40°F to + 185°F) Operating and Storage conformance to SAE J1455 4.1.1.5A |
| Humidity (Non-Condensing) | 60°C and 95% RH Operating and Storage conformance to MIL-STD 810F Method 507.4 |
| Vibration | Conformance to SAE J1455 4.10.4.2 |

MOUNTING

| | | |
|--------------|--|----------------|
| Dimensions | Height | 5.5" (140mm) |
| | Width | 5.6" (142mm) |
| | Thickness | 0.66" (16.8mm) |
| Color | Black (BL) | |
| Adhesive Pad | 3M 5962VHB double sided adhesive tape for mounting on top or bottom surface of antenna | |

CABLE

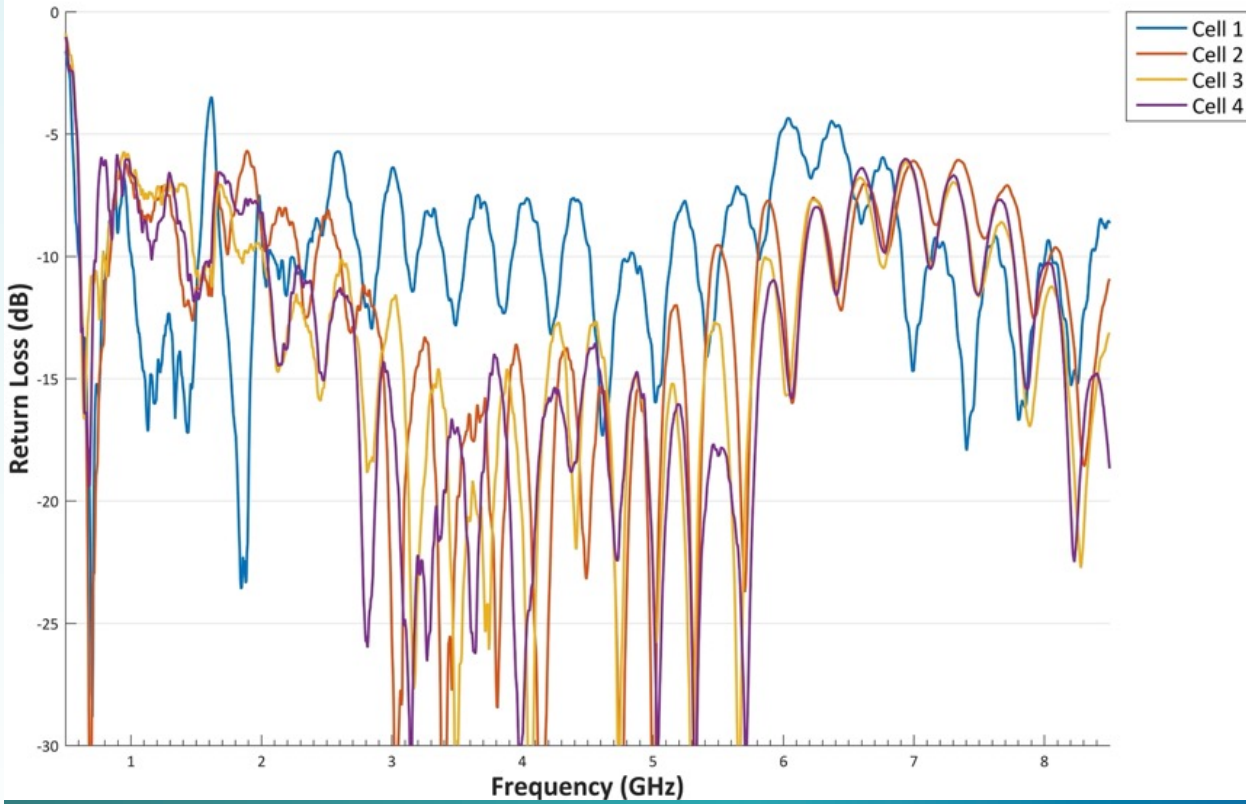
| | | |
|-------|-------------|------------------|
| Cell | Type | LMR-195 Low Loss |
| | Diameter | 0.195" (4.95mm) |
| | Length | 1 ft (0.3m) |
| | Termination | SMA Male |
| Wi-Fi | Type | LMR-195 Low Loss |
| | Diameter | 0.195" (4.95mm) |
| | Length | 1 ft (0.3m) |
| | Termination | RP-SMA Male |
| GNSS | Type | RG-174U |
| | Diameter | 0.100" (2.54mm) |
| | Length | 1 ft (0.3m) |
| | Termination | SMA Male |

GNSS

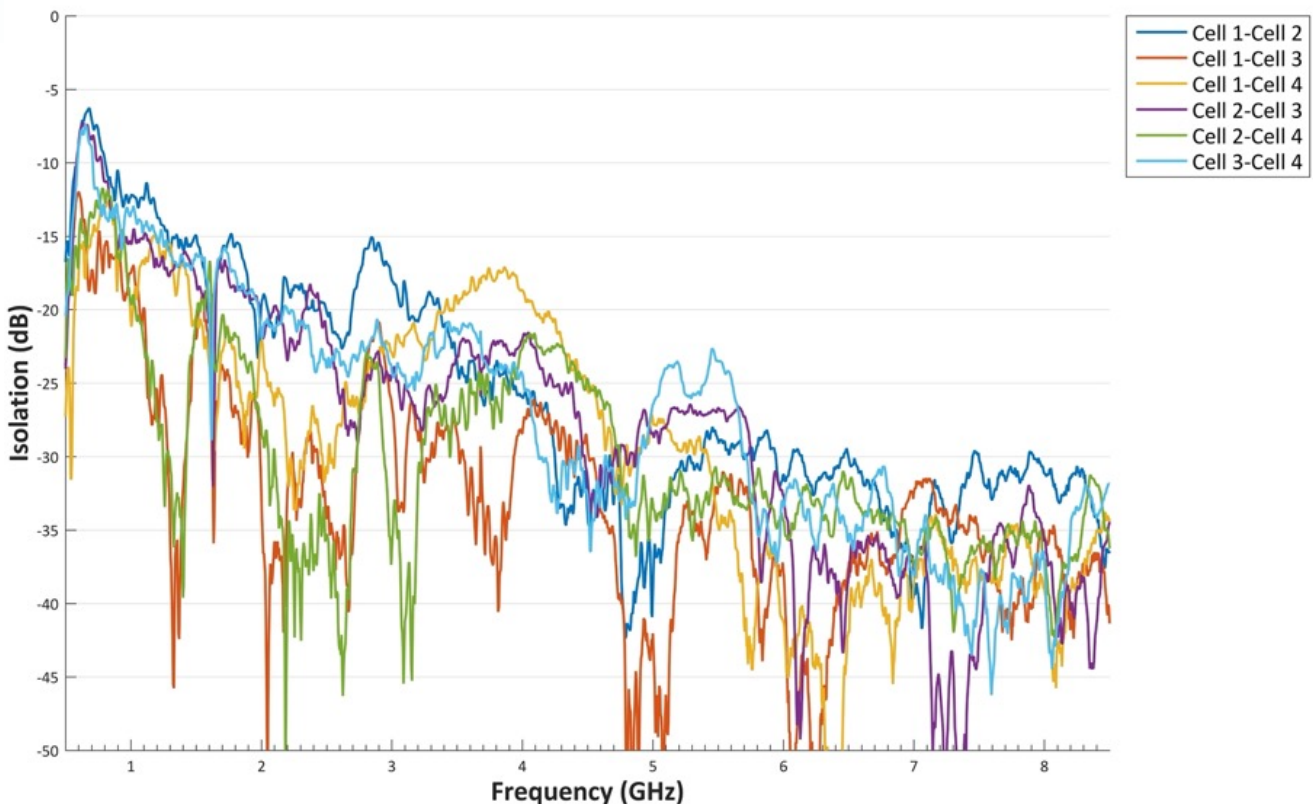
| | | |
|--|--------------|---------------|
| Ceramic Patch Antenna Specification | Bandwidth | 1558-1610 MHz |
| | Gain@Zenith | 0 dBi |
| | Polarization | R.H.C.P. |
| | Axial Ratio | 3.0 dB Typ. |
| LNA Specification | Noise Figure | 1.2 dB |
| | Gain | 35 dBi |
| | VSWR | <2:1 |
| | Voltage | 1.6V~10V |
| | Current | 9+/-2mA@3.3V |

Guidance for interpreting the data sheet is available on our website: <https://www.airgain.com/resources/datasheet-term-guide/>

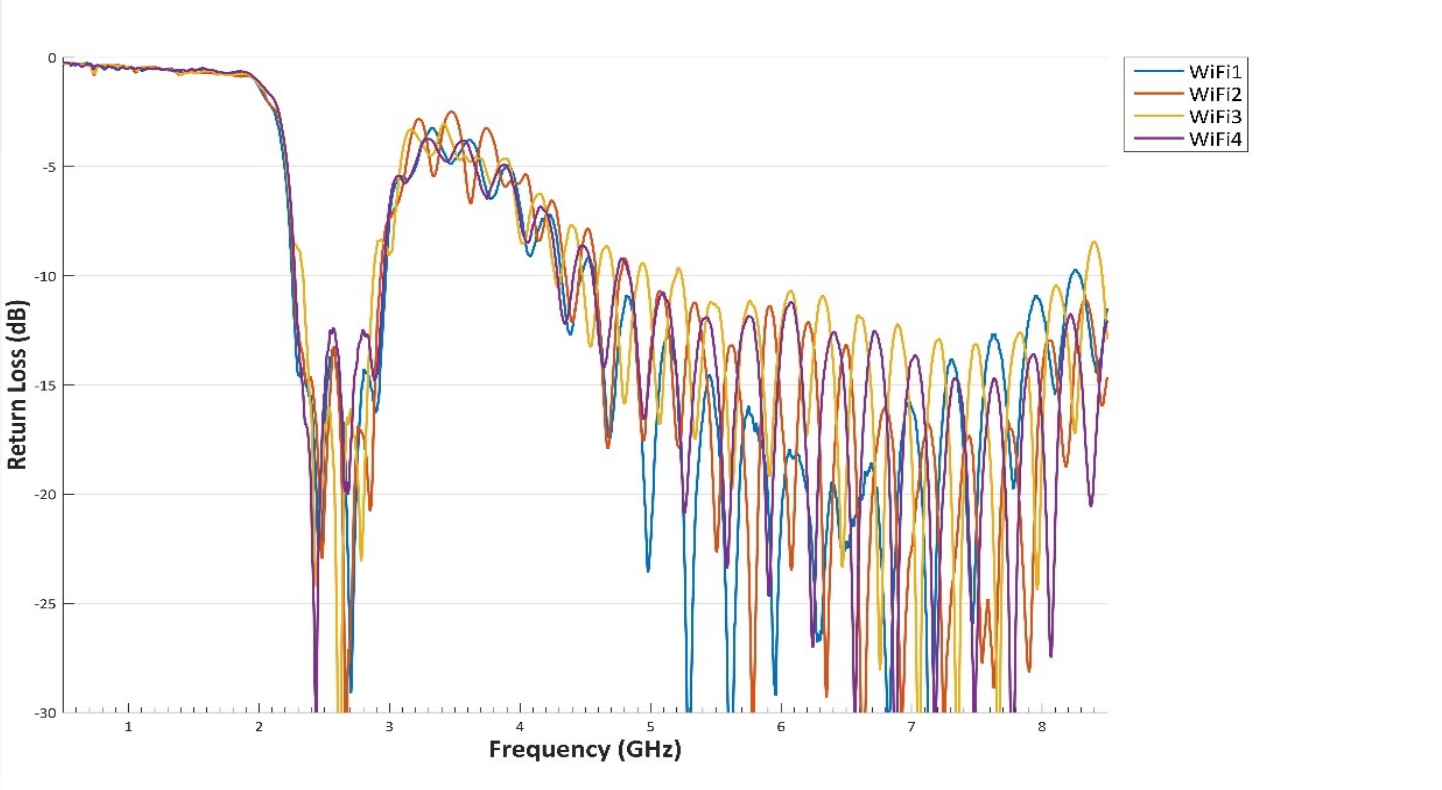
Return Loss for Cellular Antennas



Isolation Between Cellular Antennas



Return Loss for Wi-Fi Antennas



Isolation Between Wi-Fi Antennas

