

Taoglas GA.110 Wideband 4G-5G Magnetic Whip Antenna

SKU: ANT-TG-00008
MPN: GA.110.101111

Description

The GA.110 magnetic ultra-wideband cellular antenna delivers stable high omni-directional gain and efficiencies across all common 3G, 4G, and 5G cellular bands from 700 MHz to 3.5 GHz.

This high performing antenna can be used for all cellular devices and will not require changing antennas when deploying from country to country or technology to technology like 3G to 4G. Being magnetic mount it is designed to be mounted on a ground plane for optimal performance.

A reliable return loss of <10 dB when mounted on a metal plate ensures it complies with the industry standards set by module makers and networks worldwide. Taoglas recommends using the antenna with 1 m cable length or less and can provide customised connectors and cable lengths upon customer requirements.

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The strong magnet base is extremely stable and robust, using only high quality neodymium magnets for a secure magnetic mount to ensure a high pull force to disengage.

- Strong neodymium magnetic mount
- Flexible black whip
- Wideband covering all major cellular bands from 698 to



Taoglas



Taoglas provides a comprehensive range of external, embedded and base station antenna solutions for M2M applications such as Telematics / Automotive, Smart-Grid, Metering / Telemetry, Home Automation, Remote Monitoring and Medical applications.

Taoglas' cross-cultural business-solutions approach means research, design, production and customer support services are based at our world-class technology ...

RF Specification

| | | | |
|------------------|---------|---------------|--------------|
| Start Frequency: | 698 MHz | Polarisation: | Vertical (V) |
|------------------|---------|---------------|--------------|

| | | | |
|-----------------|----------|------------------|----|
| Stop Frequency: | 3600 MHz | Input Impedance: | 50 |
|-----------------|----------|------------------|----|

| | |
|-------------------|------|
| Max. Input Power: | 50 W |
|-------------------|------|

RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length |
|-------|--------------|------------|--------------|---------|
| 1 | SMA Male | Straight | RG-174 | 1000 mm |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR | Avg. Gain | Efficiency |
|-------------|------------|-----------|---------|-----------|------------|
| 698 MHz | 824 MHz | 1.8 dBi | < 2.5:1 | -4.9 dBi | 33% |
| 824 MHz | 960 MHz | 2.6 dBi | < 2.5:1 | -2.4 dBi | 57% |
| 1575 MHz | 1576 MHz | 1.3 dBi | < 2:1 | -3.4 dBi | 46% |
| 1710 MHz | 2170 MHz | 3.9 dBi | < 2:1 | -3.3 dBi | 47% |
| 2300 MHz | 2700 MHz | 2.9 dBi | < 2:1 | -4.4 dBi | 37% |
| 3400 MHz | 3600 MHz | 0.6 dBi | < 2.5:1 | -7.2 dBi | 19% |

Physical Specification

| | | | |
|-----------------------------|----------|----------------------------|-----------------------------|
| Subtype: | Whip | Dimensions: | 298 x 50 (H x Dia) |
| Input Ports: | 1 | Materials: | ABS Plastic, Brass |
| MIMO: | 1x1 SISO | Mounting: | Magnetic |
| Min. Operating Temperature: | -40 °C | Weight: | 0.12 kg |
| Max. Operating Temperature: | 85 °C | Compliance/Certifications: | ISO 9001 Quality Management |

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