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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.

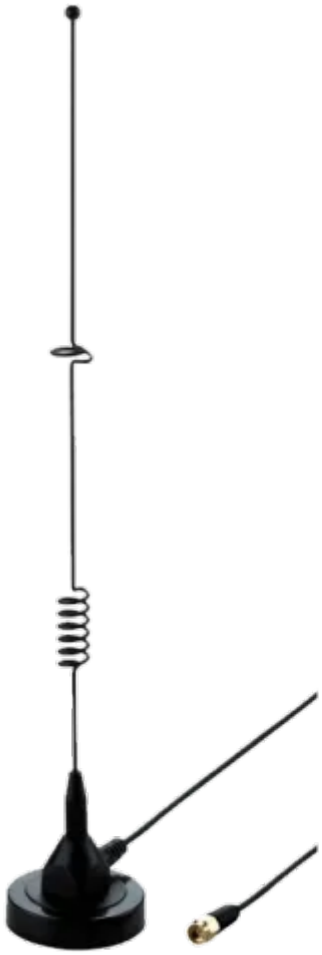
This high performing antenna can be used for all cellular devices and will not require changing antennas when deploying from country to country or technology to technology like 3G to 4G. Being magnetic mount it is designed to be mounted on a ground plane for optimal performance.

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 3500 MHz
- Ground plane dependent
- 1 metre RG174 cable with SMA Male straight connector
- Fully customizable cable length and connector



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
Stop Frequency
3600 MHz
Max. Input Power
50 W
Polarisation
Vertical (V)
Input Impedance
50 Ω
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
Input Ports
1
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
85 °C
Dimensions
298 x 50 (H x Dia)

Materials
ABS Plastic, Brass
Mounting
Magnetic
Weight
0.12 kg
Compliance/Certifications
ISO 9001 Quality Management

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