Taoglas MA241 Genesis 2x2 MIMO 4G Adhesive Antenna

SKU
ANT-TG-00004
MPN
MA241.BI.001

Description

The MA241 Genesis antenna is an omni-directional, fully IP67 waterproof external M2M antenna for use in telematics, transportation and remote monitoring applications. It is designed to be mounted directly on glass or plastic in the interior of vehicles.

This unique antenna delivers powerful MIMO antenna technology for worldwide 4G LTE bands between 700 and 2700 MHz. It enables designers to use only one antenna that covers all common frequencies for LTE globally.

4G wireless applications demand high speed data uplink and downlink. High efficiency and high gain MIMO antennas are necessary to achieve the required signal to noise ratio and throughput required to solve these challenges. Taoglas also takes care to have high isolation between the two MIMO antennas to prevent self-interference. Low loss cables are used to keep efficiency high over long cable lengths. In contrast, smaller MIMO antennas with poorer quality thinner cables will have ...

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The Taoglas MA241 Genesis 2x2 MIMO 4G Adhesive Antenna is an advanced, omni-directional solution for telematics, transportation, and remote monitoring applications. With an IP67 waterproof rating, this external antenna is ideal for vehicle interiors, adhering directly to glass or plastic surfaces. It supports worldwide 4G LTE bands from 700 to 2700 MHz, enabling seamless global connectivity with a single antenna.

Designed for high-performance applications, the MA241 utilises MIMO technology to enhance data speeds and improve signal quality, crucial for robust 4G

networks. It features high efficiency and gain to meet demanding signal requirements, and the high isolation between MIMO elements minimises self-interference, ensuring reliable operation. Equipped with low-loss cables, it maintains high efficiency over extended lengths, unlike smaller, less effective antennas.

Constructed from durable ABS plastic and polycarbonate, the antenna...

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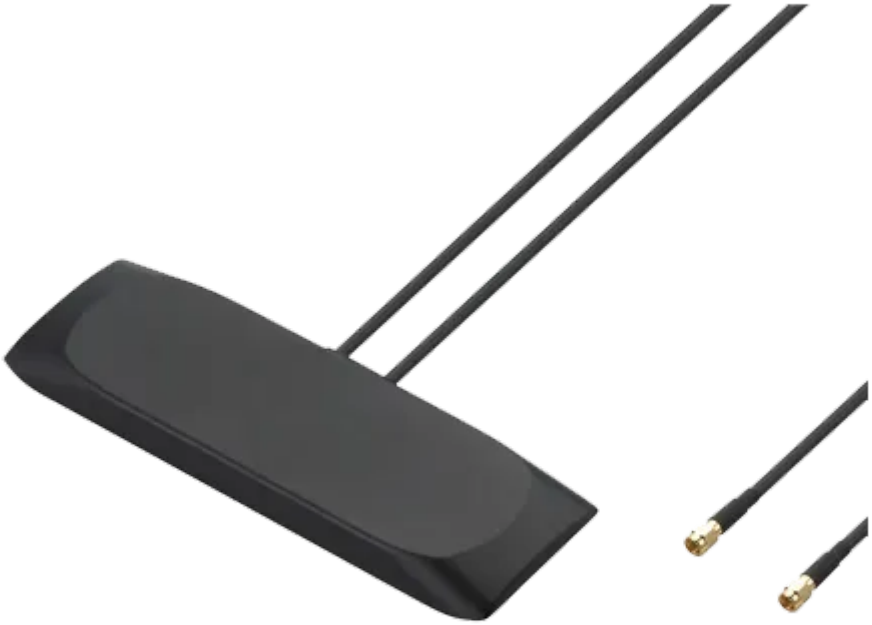

Taoglas

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
2700 MHz
Max. Input Power
5 W
Polarisation
Linear
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
2	SMA Male	Straight	L-200	2000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Avg. Gain	Efficiency
698 MHz	803 MHz	3.1 dBi	< 3.5:1	-1.96 dBi	64%
824 MHz	894 MHz	1 dBi	< 3.5:1	-3.76 dBi	42%
880 MHz	960 MHz	-0.7 dBi	< 3.5:1	-5.35 dBi	29%
1710 MHz	1880 MHz	2.5 dBi	< 3.5:1	-2.3 dBi	60%
1850 MHz	1990 MHz	-0.3 dBi	< 3.5:1	-4.8 dBi	34%
1920 MHz	2170 MHz	-1.5 dBi	< 3.5:1	-5.7 dBi	27%
2390 MHz	2690 MHz	3.8 dBi	< 3.5:1	-3 dBi	50%
3410 MHz	3490 MHz	3.5 dBi	< 2:1	-5.7 dBi	29%

Physical Specification

Subtype

Adhesive Patch
Input Ports
2
MIMO
2x2 MIMO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
85 °C
Dimensions
206 x 12.4 x 68
Ingress Protection
IP67
Materials
ABS Plastic, Polycarbonate (PC)
Mounting
Adhesive
Weight
0.21 kg
Compliance/Certifications
ISO 9001 Quality Management