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Taoglas MA251 Sentinel 2x2 MIMO 4G Adhesive Antenna

SKU: ANT-TG-00010

MPN: MA251.A.BI.001

Description

The MA251 Sentinel 2-in-1 adhesive mount 4G 2x2 LTE MIMO antenna is an omnidirectional, fully IP67 waterproof external IoT/M2M antenna for use in telematics, transportation and remote monitoring applications worldwide. It is designed to be mounted directly on glass or plastic in the interior of vehicles.

It is the smallest high performance solution in the market, 50% smaller than the previous generation, with higher efficiency and wider bandwidth to cover emerging LTE bands. Its performance is comparable with much larger permanent roof mount antennas and now offers a convenient and economical alternative in-cabin mounting solution.

It is mounted via high quality, first tier automotive approved, 3M adhesive. In-house world leading dielectric ceramic antenna technology inside allows for smaller size antennas without loss in efficiency. It delivers powerful 2x2 MIMO antenna technology for worldwide 4G LTE bands between 700 and 2600 MHz ...

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The Taoglas MA251 Sentinel 2x2 MIMO 4G Adhesive Antenna offers a compact, high-performance solution for telematics, transportation, and remote monitoring applications. Designed for easy interior mounting on vehicle glass or plastic surfaces, this antenna is 50% smaller than previous models yet delivers superior efficiency and bandwidth, covering emerging LTE bands. Its omnidirectional design and IP67 waterproof rating ensure reliable performance in diverse environments.

The MA251 utilises advanced dielectric ceramic technology, enabling a streamlined form without compromising efficiency. Supporting worldwide 4G LTE bands between 700 and 2600 MHz, it also accommodates fallback to common 3G and 2G frequencies, making it versatile for global deployments. The antenna's 2x2 MIMO configuration enhances data transmission with high speed and low latency, essential for today's demanding 4G wireless applications. High isolation between MIMO...

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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:	Linear
Stop Frequency:	2690 MHz	Input Impedance:	50 Ω
Max. Input Power:	5 W		

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	Inter-Port Iso.
698 MHz	803 MHz	0.7 dBi	< 3.5:1	-4.3 dBi	37%	> 10 dB
824 MHz	894 MHz	1.3 dBi	< 3.5:1	-2.8 dBi	52%	> 10 dB
880 MHz	960 MHz	2.1 dBi	< 3.5:1	-2.8 dBi	53%	> 10 dB
1710 MHz	1880 MHz	3.8 dBi	< 3.5:1	-2.6 dBi	60%	> 20 dB
1850 MHz	1990 MHz	3.8 dBi	< 3.5:1	-2.1 dBi	62%	> 20 dB
1920 MHz	2170 MHz	3.4 dBi	< 3.5:1	-2.7 dBi	55%	> 20 dB
2490 MHz	2690 MHz	3.1 dBi	< 3.5:1	-3.5 dBi	45%	> 20 dB

Physical Specification

Subtype:	Adhesive Patch	Dimensions:	76 x 139 x 14
Input Ports:	2	Ingress Protection:	IP67
MIMO:	2x2 MIMO	Materials:	ABS Plastic
Min. Operating Temperature:	-40 °C	Mounting:	Adhesive
Max. Operating Temperature:	85 °C	Weight:	0.24 kg
		Compliance/Certifications:	ISO 9001 Quality Management

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