Powertec Wireless Technology
ABN: 42 082 948 463
PO Box 1034, Ashmore City
Queensland, Australia, 4214
sales@powertec.com.au
1300 769 378

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 ...

Read More

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.

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:	Linear
Stop Frequency:	2700 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
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	Dimensions:	206 x 12.4 x 68
Input Ports:	2	Ingress Protection:	IP67
MIMO:	2x2 MIMO	Materials:	ABS Plastic, Polycarbonate (PC)
Min. Operating Temperature:	-40 °C	Mounting:	Adhesive
Max. Operating Temperature:	85 °C	Weight:	0.21 kg
		Compliance/Certifications:	ISO 9001 Quality Management

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.