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Taoglas GSA.8827 Phoenix 4G-5G & IoT Adhesive Antenna, 617 to 4200 MHz

SKU
ANT-TG-00003
MPN
GSA.8827.A.101111

Description

The GSA.8827 Phoenix Ultra-Wideband I-Bar antenna is a robust high efficiency mobile antenna for use with all 4G, 5G and IoT devices across the world. Its slim-line design allows for convenient installation in automotive vehicles, its omni-directional gain across all bands ensures constant reception and transmission.

The antenna demonstrates some of the best radiation patterns available in the market, and is generally considered a best-in-class performer.

GSA8827 has been recently re-certified by Taoglas to operate on several 5G FR1 frequencies. The antenna is an excellent choice for NB-IoT and LTE-M applications such as in industrial metering, with good performance on the lower cellular bands from 700 to 900 MHz - in particular Band 8, Band 20, and Band 28 LTE.

The Taoglas GSA.8827 Phoenix Ultra-Wideband I-Bar Antenna is designed for seamless integration with 4G, 5G, and IoT devices globally. This slim, adhesive antenna is ideal for automotive applications, offering easy installation and reliable omni-directional gain across all frequency bands. Recognised as a top performer in the market, it showcases exceptional radiation patterns and has been re-certified for several 5G FR1 frequencies.

Optimised for NB-IoT and LTE-M applications, the GSA.8827 performs exceptionally well in lower cellular bands, particularly Band 8, Band 20, and Band 28 LTE, making it suitable for industrial metering and telemetry. Crafted from durable ABS plastic and polycarbonate, it operates effectively within a temperature range of -40°C to 85°C.

This antenna supports a wide frequency range from 617 MHz to 4200 MHz, with a 50 Ω impedance and up to 10 W input power capacity. Its linear polarisation ensures efficient signal...

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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
617 MHz
Stop Frequency
4200 MHz
Max. Input Power
10 W
Polarisation
Linear
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
617 MHz	698 MHz	-1.1 dBi	< 4:1	-6.8 dBi	21%
698 MHz	806 MHz	1.8 dBi	< 4:1	-4.3 dBi	37%
824 MHz	960 MHz	2.8 dBi	< 3:1	-2.7 dBi	53%
1427 MHz	1518 MHz	1.6 dBi	< 3:1	-2.4 dBi	45%
1710 MHz	2200 MHz	3 dBi	< 3:1	-2.3 dBi	58%
2300 MHz	2690 MHz	4.7 dBi	< 3:1	-4.3 dBi	38%
3300 MHz	4200 MHz	2.3 dBi	< 4:1	-4.8 dBi	25%

Physical Specification

Subtype
Adhesive Patch
Input Ports
1
MIMO
1x1 SISO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
85 °C
Dimensions

105 x 30 x 7.7
Materials
ABS Plastic, Polycarbonate (PC)
Mounting
Adhesive
Weight
0.05 kg
Compliance/Certifications
ISO 9001 Quality Management

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