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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 slimline design allows for convenient installation in automotive vehicles, its omnidirectional 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 recertified 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

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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