
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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RF Specification



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 ...

Start Frequency: 617 MHz Polarisation: Linear

Stop Frequency: 4200 MHz Input Impedance: 50

Max. Input Power: 10 W

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 | Dimensions: | 105 x 30 x 7.7 |
| Input Ports: | 1 | Materials: | ABS Plastic, Polycarbonate (PC) |
| MIMO: | 1x1 SISO | Mounting: | Adhesive |
| Min. Operating Temperature: | -40 °C | Weight: | 0.05 kg |
| Max. Operating Temperature: | 85 °C | Compliance/Certifications: | ISO 9001 Quality Management |

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