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# Taoglas GSA.8835 Weatherproof 4G-5G & IoT Adhesive Antenna

SKU: ANT-TG-00009

MPN: GSA.8835.A.101111

## Description

The Taoglas GSA.8835 is a fully IP67 rated waterproof 4G / 5G external adhesive mount antenna designed for use with all cellular modules worldwide including new bands in the 600 MHz, 3.5 GHz, and 5 GHz ranges.

The "Phoenix II" GSA.8835 has been designed as a fully IP67 waterproof rated enclosure and with extended wideband cellular frequency range coverage of 600 to 6000 MHz, the newly designed GSA.8835 is ready for use at all cellular bands across 4G and 5G, with compatibility with legacy 3G technologies.

Providing excellent efficiency and gain, this low profile (7.9 mm) antenna is ideal in areas where space is at a premium. The GSA.8835 can be mounted on glass or plastic and comes with a strong 3M 1600T adhesive already adhered to the bottom side of the antenna for ease of installation.

Phoenix II is a second generation adhesive antenna, replacing the popular GSA.8827 antenna. The model covers more frequency bands with similar performance ...

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The Taoglas GSA.8835, also known as the "Phoenix II," is a robust, IP67-rated adhesive antenna designed for seamless integration with 4G and 5G networks, including legacy 3G support. Covering a broad frequency range from 600 MHz to 6000 MHz, this antenna is suitable for global cellular applications and new bands like 600 MHz, 3.5 GHz, and 5 GHz. Its low-profile design, measuring just 7.9 mm, makes it ideal for installations where space is limited, while its strong 3M adhesive ensures easy mounting on glass or plastic surfaces.

The GSA.8835 excels in efficiency and gain, making it a reliable choice for diverse applications, including telematics, smart-grid, metering, home automation, and medical monitoring. The antenna includes a single SMA male connector with a 1000 mm RG-174 cable, ensuring straightforward connectivity. Its construction from durable ABS plastic and polycarbonate ensures long-lasting performance, even in challenging...



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:  | 600 MHz  | Polarisation:    | Linear |
| Stop Frequency:   | 6000 MHz | Input Impedance: | 50     |
| Max. Input Power: | 1 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   | < 3:1   | -4.3 dBi  | 39%        |
| 698 MHz     | 806 MHz    | 1.7 dBi   | < 2.5:1 | -2.5 dBi  | 57%        |
| 824 MHz     | 960 MHz    | 1.2 dBi   | < 2.5:1 | -2.1 dBi  | 62%        |
| 1427 MHz    | 1518 MHz   | 3.5 dBi   | < 2:1   | -1.6 dBi  | 70%        |
| 1710 MHz    | 2200 MHz   | 2.9 dBi   | < 2.5:1 | -2.2 dBi  | 61%        |
| 2300 MHz    | 2690 MHz   | 2.1 dBi   | < 2.5:1 | -3.6 dBi  | 44%        |
| 3300 MHz    | 3600 MHz   | 2 dBi     | < 3:1   | -4.3 dBi  | 37%        |
| 5150 MHz    | 5925 MHz   | -1 dBi    | < 3:1   | -5.6 dBi  | 28%        |

# Physical Specification

|                             |                |                             |                                 |
|-----------------------------|----------------|-----------------------------|---------------------------------|
| Subtype:                    | Adhesive Patch | Dimensions:                 | 105 x 30 x 7.9                  |
| Input Ports:                | 1              | Ingress Protection:         | IP67                            |
| MIMO:                       | 1x1 SISO       | Materials:                  | ABS Plastic, Polycarbonate (PC) |
| Min. Operating Temperature: | -40 °C         | Mounting:                   | Adhesive                        |
| Max. Operating Temperature: | 85 °C          | Weight:                     | 0.04 kg                         |
| Compliance/Certifications:  |                | ISO 9001 Quality Management |                                 |

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