
Taoglas G30 Olympian Wideband 4G / IoT Stud Antenna

SKU: ANT-TG-00002

MPN: G30.B.108111

Description

The G30 Olympian is a high performance screw mount wide-band cellular antenna for external use on vehicles and outdoor assets worldwide. Omnidirectional high gain and high efficiency across all bands ensures constant reception and transmission. This is vital for today's high data bandwidth applications in video and mobile broadband.

Durable UV resistant ABS housing is resistant to vandalism and direct attack. At only 48 mm height it complies with the latest EU height restrictions directives for roof-mounted objects. This antenna is mounted on metal and plastic structures and is locked from the inside of the structure by a nut. Adhesive foam at the base provides a watertight seal to the mounting structure. High quality waterproof and corrosion resistant Teflon jacket RG316 is used for the cable.

Two of these G30 separated at distance from each other are ideal for the latest LTE MIMO spatial diversity applications.

Customised cable length ...

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The Taoglas G30 Olympian Wideband 4G / IoT Stud Antenna (SKU: ANT-TG-00002) is a high-performance, omnidirectional antenna designed for exterior installation on vehicles and outdoor assets. It offers reliable reception and transmission across all major cellular bands, making it ideal for high-bandwidth applications like video streaming and mobile broadband. Constructed with durable UV-resistant ABS housing, it withstands vandalism and adverse weather conditions, and complies with EU height restrictions at only 48 mm tall.

The G30's screw mount design ensures secure installation on both metal and plastic surfaces, with an internal nut for added stability and adhesive foam for a watertight seal. Its RG316 cable, featuring a Teflon jacket, is both waterproof and corrosion-resistant. The antenna is IP67 rated for waterproofing, making it suitable for demanding environmental conditions.



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: | Vertical (V) |
| Stop Frequency: | 2800 MHz | Input Impedance: | 50 |
| Max. Input Power: | 5 W | | |

RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length |
|-------|--------------|------------|--------------|---------|
| 1 | SMA Male | Straight | RG-316 | 1000 mm |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR | Avg. Gain | Efficiency |
|-------------|------------|-----------|-------|-----------|------------|
| 698 MHz | 960 MHz | 1.2 dBi | < 3:1 | -4.5 dBi | 40% |
| 1710 MHz | 2170 MHz | 3.2 dBi | < 3:1 | -2.5 dBi | 55% |
| 2300 MHz | 2483 MHz | 1.5 dBi | < 3:1 | -4.5 dBi | 38% |
| 2500 MHz | 2800 MHz | 2.5 dBi | < 2:1 | -4.5 dBi | 40% |

Physical Specification

| | | | |
|-----------------------------|--------------------|----------------------------|-----------------------------|
| Subtype: | Fin / Stud / Combo | Dimensions: | 48 x 50 (H x Dia) |
| Input Ports: | 1 | Ingress Protection: | IP67 |
| MIMO: | 1x1 SISO | Materials: | ABS Plastic |
| Min. Operating Temperature: | -40 °C | Mounting: | M12 Stud |
| Max. Operating Temperature: | 85 °C | Weight: | 0.07 kg |
| | | Compliance/Certifications: | ISO 9001 Quality Management |

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