

# Taoglas MA412 Storm 3G & 4G 2x2 MIMO Stud Antenna - 3m cable

SKU: ANT-TG-00013  
MPN: MA412.A.BI.003

## Description

The Taoglas MA412 Storm 3G & 4G 2x2 MIMO Stud Antenna, part number MA412.A.BI.003, is an advanced solution for robust wireless connectivity. With a compact design measuring 216.24 x 93.25 x 30.95 mm, this antenna is ideal for challenging environments, boasting an IP67 ingress protection rating. Its dual-port configuration supports 2x2 MIMO technology, ensuring high-performance data transmission across frequency ranges from 698 MHz to 2690 MHz.

Each of the two LTE elements provides peak gain values of up to 7.1 dBi, with consistent 360° azimuth beamwidth, facilitating reliable and seamless wireless communication. The antenna's 50  $\Omega$  impedance and linear polarisation optimise signal clarity and strength. The integrated SMA Male connectors are paired with 3m L-200 cables, ensuring easy installation and flexible positioning.

Taoglas, renowned for quality and innovation, designs antennas for diverse M2M applications, including Telematics, Smart...

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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

## Cable 1: LTE

|                  |          |                  |        |
|------------------|----------|------------------|--------|
| Start Frequency: | 698 MHz  | Polarisation:    | Linear |
| Stop Frequency:  | 2690 MHz | Input Impedance: | 50     |

### RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length  |
|-------|--------------|------------|--------------|---------|
| 1     | SMA Male     | Straight   | L-200        | 3000 mm |

### Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | Azimuth |
|-------------|------------|-----------|---------|
| 698 MHz     | 960 MHz    | 5.37 dBi  | 360°    |
| 1710 MHz    | 2170 MHz   | 6.24 dBi  | 360°    |
| 2490 MHz    | 2690 MHz   | 7.11 dBi  | 360°    |

## Cable 2: LTE

|                  |          |                  |        |
|------------------|----------|------------------|--------|
| Start Frequency: | 698 MHz  | Polarisation:    | Linear |
| Stop Frequency:  | 2690 MHz | Input Impedance: | 50     |

### RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length  |
|-------|--------------|------------|--------------|---------|
| 1     | SMA Male     | Straight   | L-200        | 3000 mm |

# Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | Azimuth |
|-------------|------------|-----------|---------|
| 698 MHz     | 960 MHz    | 5.37 dBi  | 360°    |
| 1710 MHz    | 2170 MHz   | 6.24 dBi  | 360°    |
| 2490 MHz    | 2690 MHz   | 7.11 dBi  | 360°    |

# Physical Specification

|              |                    |                            |                        |
|--------------|--------------------|----------------------------|------------------------|
| Subtype:     | Fin / Stud / Combo | Dimensions:                | 216.24 x 93.25 x 30.95 |
| Input Ports: | 2                  | Ingress Protection:        | IP67                   |
| MIMO:        | 2x2 MIMO           | Compliance/Certifications: | RoHS                   |

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