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Taoglas MA9908 Guardian 4x4 MIMO 5G + 3x3 WiFi Adhesive Antenna

SKU
ANT-TG-00005
MPN
MA9908.A.001

Description

The Taoglas GuardianX MA9908 is a low profile heavy duty, fully IP67 waterproof external antenna. It incorporates eight elements under a single housing, supporting the following technologies concurrently:

- 4x4 MIMO 4G LTE / 5G NR from 600 to 6000 MHz
- 3x3 MIMO Dual Band WiFi (2.4 + 5 GHz)
- Active GNSS for GPS/GLONASS/Galileo operation

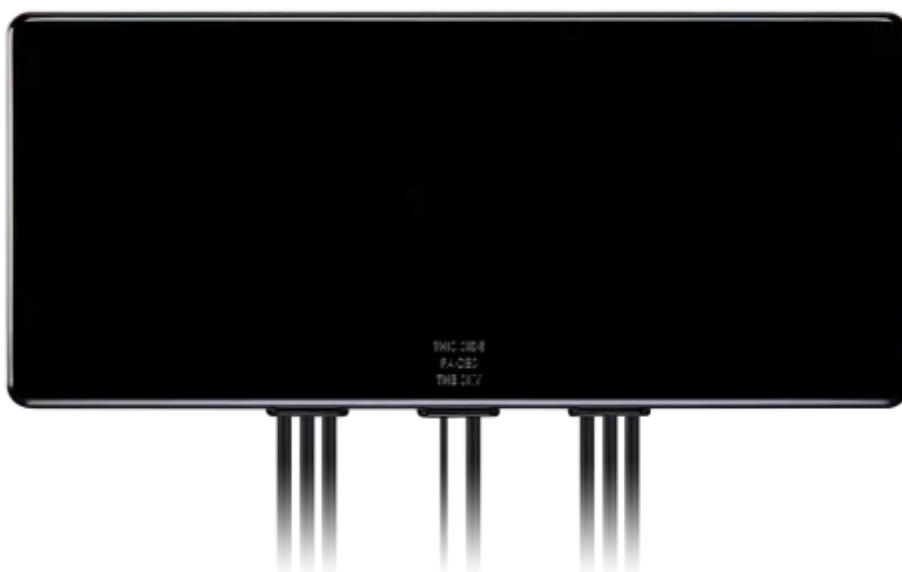
When paired with a good quality modem this one antenna unit is capable of establishing a high throughput data connection over the 4G or 5G network, providing high speed dual-band WiFi network, while being tracked over GPS.

[Read More](#)

Variable performance is typical of highly compact antennas with limited VSWR and isolation performance. Datasheet must be studied carefully to ensure you recognise the limitations of this antenna, particularly on 5G bands. If in doubt please discuss your application with our team prior to purchasing.

Typical applications include:

- Passenger Bus / Rail / Air Applications.
- Automotive and Heavy Equipment Vehicle Tracking and Telematics
- First Responder and Emergency Services



[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

4G-5G Cellular

Start Frequency

617 MHz

Stop Frequency

6000 MHz

Max. Input Power

2 W

Polarisation

[Linear](#)

Input Impedance

50 Ω

RF Connectors

Ports RF Interface Body Shape Cable Series Length

4 [SMA Male](#) [Straight](#) [L-200](#) 1000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Avg. Gain	Efficiency	Inter-Port Iso.
617 MHz	698 MHz	2.7 dBi	< 4.5:1	-2.69 dBi	54%	> 8 dB
698 MHz	824 MHz	2.3 dBi	< 4.5:1	-2.53 dBi	55%	> 8 dB
824 MHz	960 MHz	3.5 dBi	< 4.5:1	-2.6 dBi	55%	> 8 dB
1427 MHz	1518 MHz	3.8 dBi	< 4.5:1	-0.18 dBi	83%	> 13 dB
1710 MHz	1880 MHz	3.8 dBi	< 2.5:1	-1.81 dBi	66%	> 13 dB
1850 MHz	1990 MHz	4 dBi	< 2.5:1	-2.48 dBi	56%	> 13 dB
1920 MHz	2170 MHz	5.2 dBi	< 2.5:1	-2.63 dBi	55%	> 13 dB
2300 MHz	2690 MHz	5.1 dBi	< 4.5:1	-2.76 dBi	53%	> 16 dB

StartFreq. StopFreq. PeakGain VSWR Avg.Gain Efficiency Inter-PortIso.

3300 MHz 3800 MHz 2.4 dBi < 4.5:1 -4.43 dBi 36% > 16 dB

5150 MHz 5925 MHz 3.8 dBi < 4.5:1 -2.55 dBi 56% > 24 dB

Dual-Band WiFi

Start Frequency

2400 MHz

Stop Frequency

5850 MHz

Max. Input Power

2 W

Polarisation

[Linear](#)

Input Impedance

50 Ω

RF Connectors

Ports RF Interface Body Shape Cable Series

2 [RP-SMA Male](#) [Straight](#) [L-200](#)

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Avg. Gain	Efficiency	Inter-Port Iso.
2400 MHz	2500 MHz	4.08 dBi	< 3:1	-1.46 dBi	72%	> 30 dB
5150 MHz	5850 MHz	3.47 dBi	< 3:1	-2.23 dBi	60%	> 30 dB

GNSS Antenna

Gain (Zenith)

0 dBic

Start Frequency

1575.42 MHz

Stop Frequency

1602 MHz

Input Impedance

50 Ω

Polarisation

[Right Hand Circular \(RHCP\)](#)

Low Noise Amplifier (LNA)

LNA Gain

30 dBic

Noise Figure

≤ 3 dB

Power Consumption

< 10 mW

Min. Operating Voltage

1.8 V

Max. Operating Voltage

5.5 V

RF Connectors

Ports RF Interface Body Shape Cable Series

1 [SMA Male](#) [Straight](#) [RG-174](#)

Physical Specification

Subtype

[Fin / Stud / Combo](#)

Input Ports

8

MIMO

[4x4 MIMO](#)

Min. Operating Temperature

-40 °C

Max. Operating Temperature

85 °C

Dimensions

360 x 160 x 16.5

Ingress Protection

[IP67](#)

Materials

[Polycarbonate \(PC\)](#)

Mounting

[Adhesive](#)

Weight

0.75 kg

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