

# Titanis 2.4 GHz Swivel SMA Antenna

Part No. B4844 / B4844-R

gigaNOVA<sup>®</sup>

Product Specification

## 1 Features

- Designed for 2.4 GHz applications: Bluetooth<sup>®</sup>, Wi-Fi<sup>®</sup> (802.11a/b/g/n), ZigBee<sup>®</sup>, etc.
- Antenna with a SMA male connector
- Also available as SMA reverse thread to meet FCC regulations, part 15
- High efficiency
- Supplied in bulk

## 2 Description

Titanis is intended for use with all 2.4 GHz applications. The antenna is fitted with a SMA male connector and a blade made of flexible material that can be rotated 360 degree.

No external matching network required.

## 3 Applications

- Development tools
- Test equipment
- Access points, routers, etc
- Printers



## 4 Part number

**Standard SMA – male: B4844**

**Reverse thread SMA – male: B4844-R**

## 5 General data

<b>Product name</b>	Titanis 2.4 GHz
<b>Part Number</b>	B4844 (Standard SMA – male)
	B4844-R (Reverse thread SMA – male)
<b>Frequency</b>	2.4 – 2.5 GHz
<b>Polarization</b>	Linear
<b>Operating temperature</b>	-40 °C to +85 °C
<b>Impedance</b>	50 Ω
<b>Weight</b>	7.1 g
<b>Antenna type</b>	<sup>1</sup> Swivel external
<b>Dimensions</b>	20 x 19.5 x 62.5 [mm]

<sup>1</sup>The blade of the antenna is the only part that swivels. DO NOT twist the plastic housing of the antenna blade. The housing is NOT designed to twist or turn and any attempt to do so will likely result in permanent damage to the antenna and its performance and will not be covered by warranty. Installation and removal of the antenna should only be done by turning the metal SMA connector.

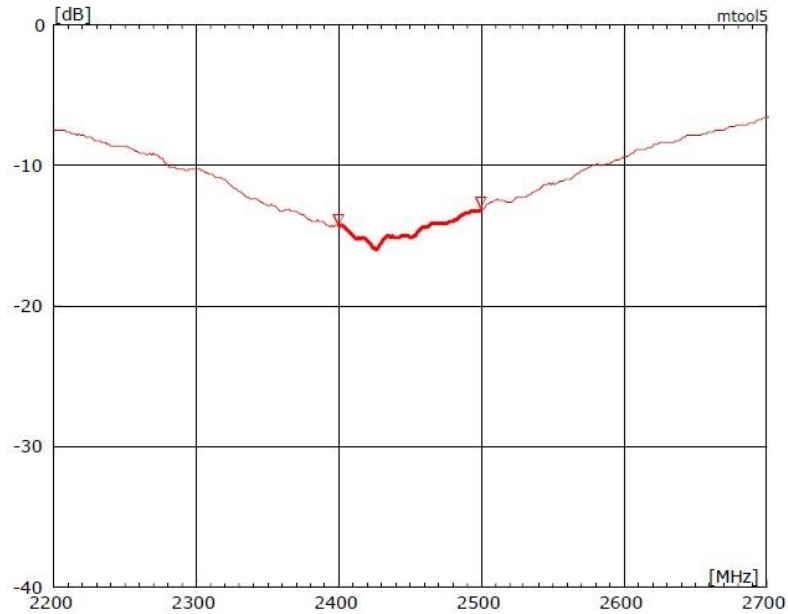
Titanis is not suitable for outdoor use or applications.

## 6 Electrical characteristics

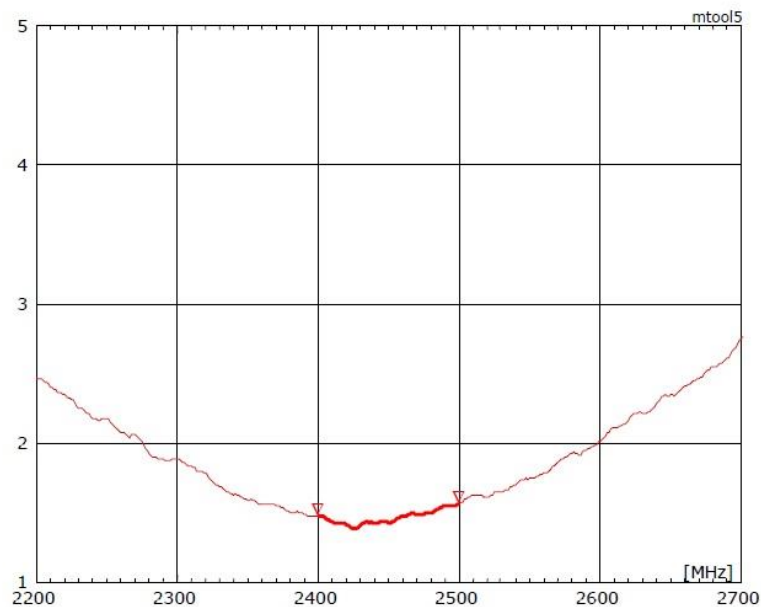
	Typical performance	Conditions
<b>Peak gain</b>	2.2 dBi	Data given for the 2.4 – 2.5 GHz frequency range
<b>Average gain</b>	-1.0 dBi	
<b>Average efficiency</b>	80%	
<b>Maximum Return Loss</b>	-13 dB	
<b>Maximum VSWR</b>	1.6:1	

## 7 Electrical performance

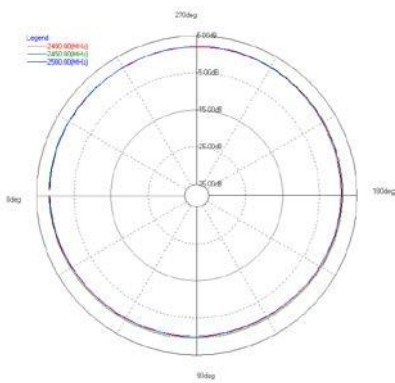
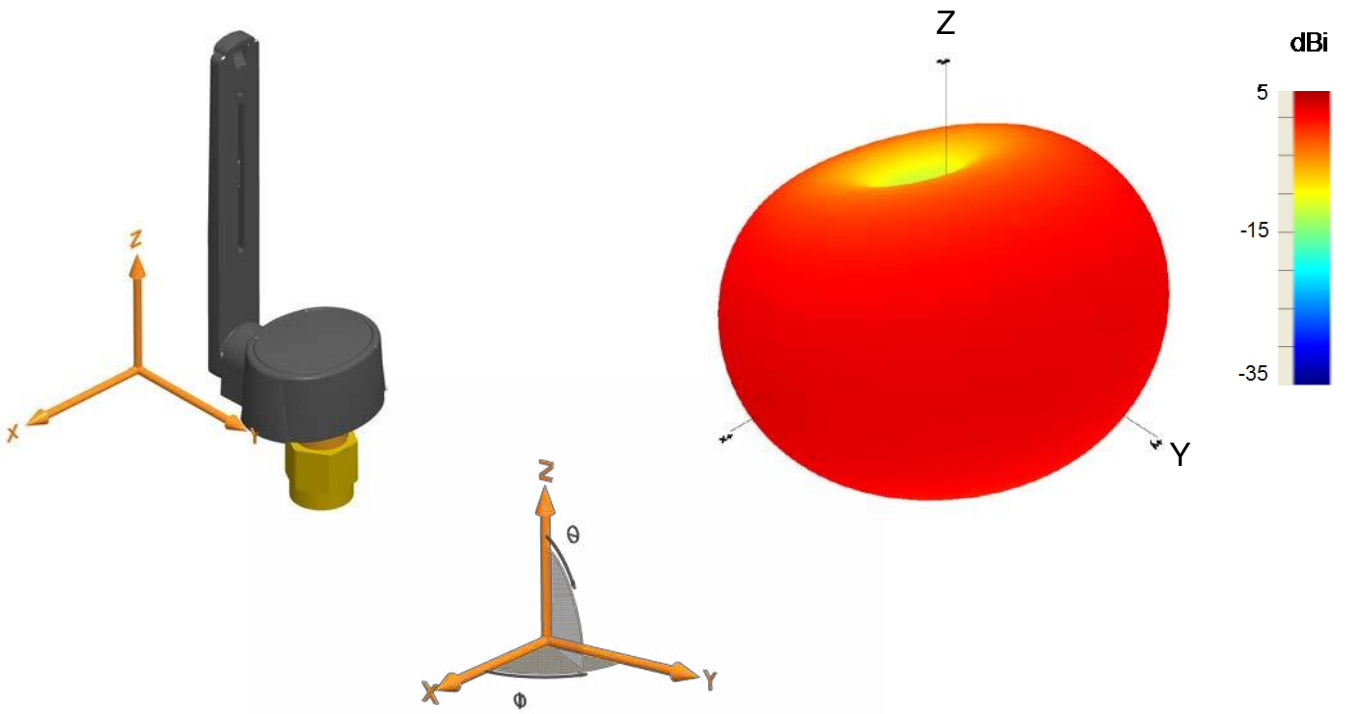
### 7-1 Return Loss



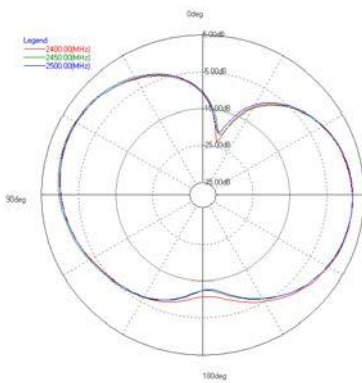
### 7-2 VSWR



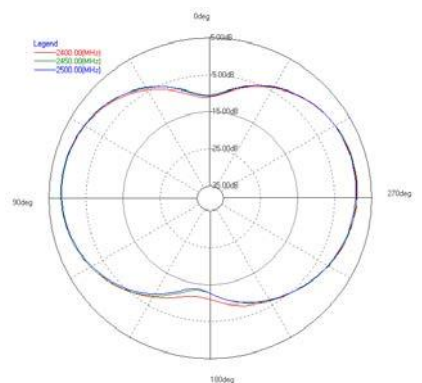
### 7-3 Antenna patterns



XY plane



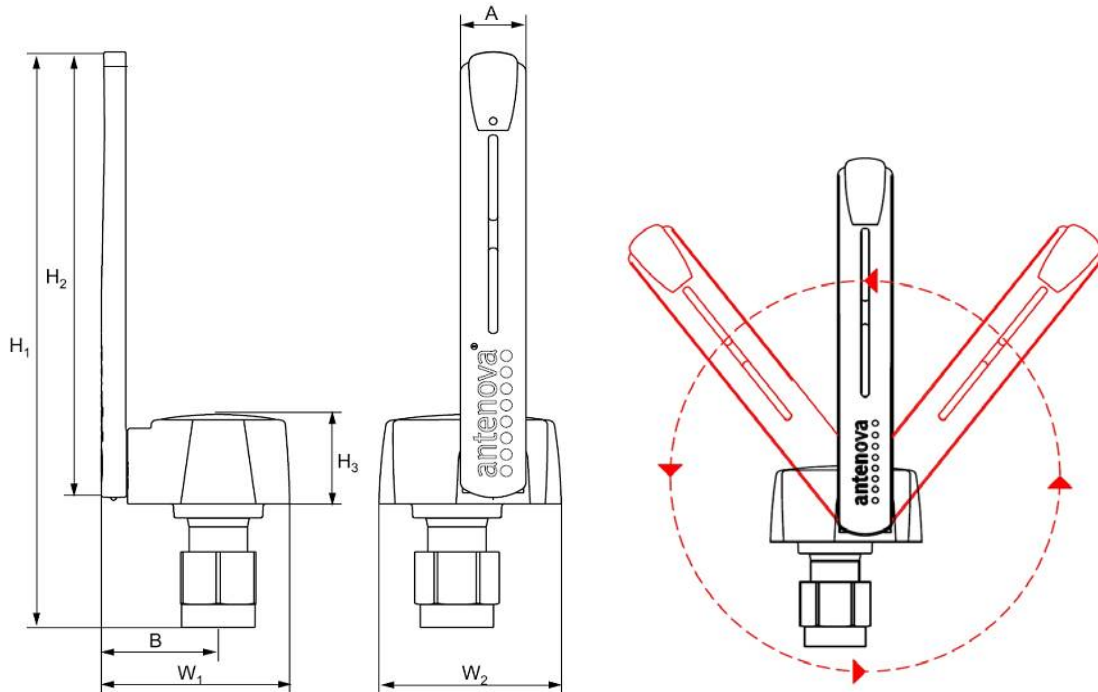
ZY plane



XZ plane

Patterns show combined polarisations

## 8 Antenna dimensions



A	B	H1	H2	H3	W1	W2
		Height	Height	Height	Width	Width
7 ± 0.2	12.5 ± 0.5	62.5 ± 0.5	48.3 ± 0.5	9.5 ± 0.5	20 ± 0.3	19.5 ± 0.3

Dimensions in mm

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## 9 Hazardous material regulation conformance

The antenna has been tested to conform to RoHS requirements. A certificate of conformance is available from Antenova M2M's website.

## 10 Packaging

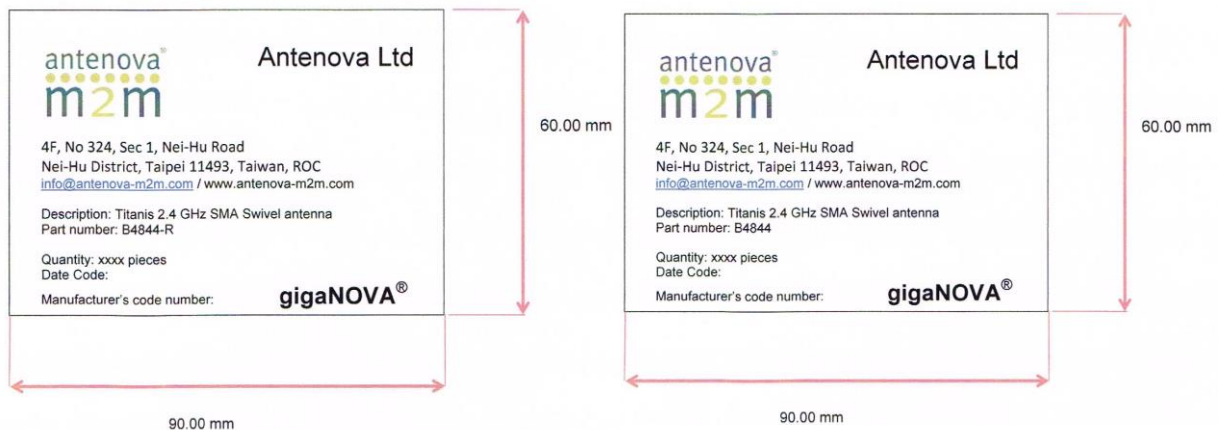
### 10-1 Optimal storage conditions

<b>Temperature</b>	-10°C to 40°C
<b>Humidity</b>	Less than 75% RH
<b>Shelf Life</b>	48 Months
<b>Storage place</b>	Away from corrosive gas and direct sunlight

### 10-2 Packaging information

The antennas are delivered in bulk, enclosed in plastic bags.

### 10-3 Bag label information



Dimensions in mm



**[www.antenova-m2m.com](http://www.antenova-m2m.com)**

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Certificate No: 4598

**Antennas for Wireless M2M Applications**