

Titanis 2.4 GHz Swivel SMA Antenna

Product Specification

1 Features

- Designed for 2.4 GHz applications [Bluetooth[™], WiFi[™] (802.11b/g), Zigbee[™], WiMedia[™] etc.]
- · Also available as reversed thread (left) to meet FCC regulation part 15
- · Intended for SMA mounting
- · Supplied in bulk

2 Description

The Titanis antenna is intended for use with all 2.4 GHz applications. The antenna is fitted with an SMA male connector and a blade, made of a flexible material that can be rotated 360 degrees. No external matching net is required.

Titanis is available as standard SMA and reversed thread SMA.

3 Application

- · Development tools
- Test equipment
- · Instruments
- Access points and gateways
- Printers





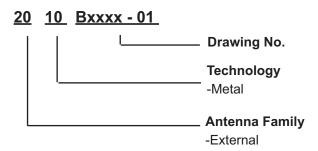


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4 Model name



5 General data

Product Name	Titanis 2.4 GHz
Article No.	2010B4844-01 (Standard)
	2010B6090-01 (Reverse thread)
Frequency	2.4-2.5 GHz
Polarization	Linear
Operating temperature	-40 to + 85 degC
Impedance	50 Ohm
Weight	7.4 gram
Antenna type	Swivel

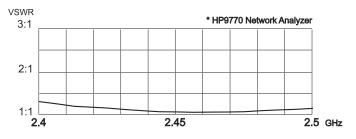
6 Electrical characteristics

	Characteristics			Conditions*	
	Min	Тур	Max	Conditions	
Peak Gain	4.0 dBi	4.1 dBi	4.4 dBi	Frequency 2.4-2.5 GHz, Measured in 3D chamber (near	
Efficiency	80%	85%	90%	field)	
VSWR	1.1:1	1.2:1	1.3:1	Frequency 2.4-2.5 GHz, Measured in Network Analyzer	

^{*}Note all data provided in this table are based on the Antenova reference board

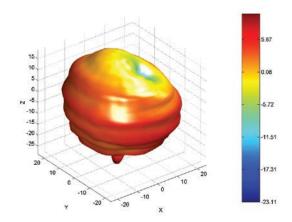
7 Electrical performance

7.1 Voltage Standing Wave Ratio

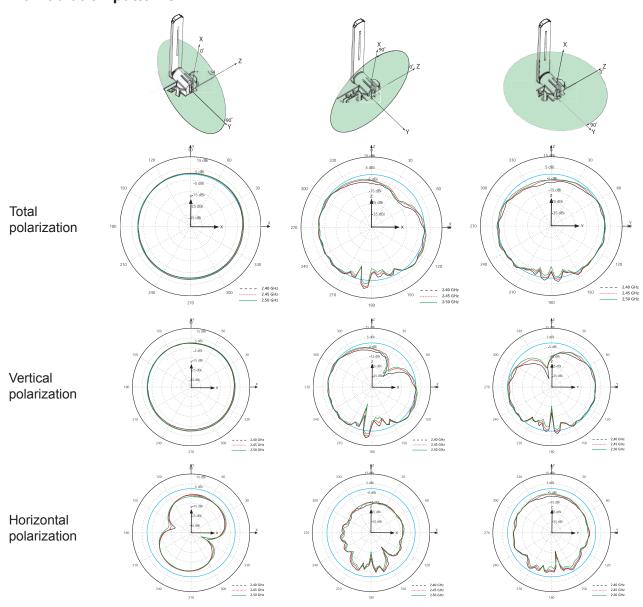




7.2 3D-Radiation

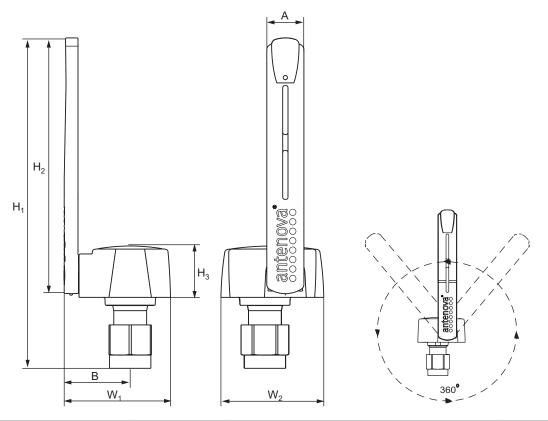


7.3 Radiation patterns





8 Antenna Dimensions



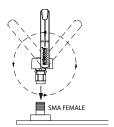
Α	В	H1	H2	Н3	W1	W2
		Height	Height	Height	Width	Width
7±0.2	12.5±0.5	62.5 ±0.5	48.3 ±0.5	9.5±0.5	20±0.3	19.5±0.3

Dimensions in millimeters

9 Electrical interface

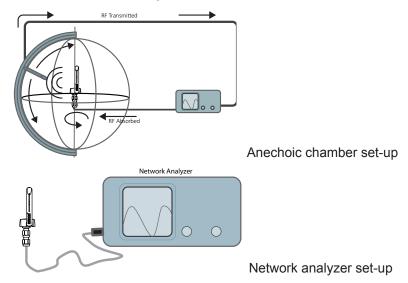
9.1 Connection

Titanis is fitted with an internal matching net. Connect the antenna directly to an SMA Female connector.





9.2 Electrical performance test set-up



10 Reliability

10.1 Temperature and Humidity

Item	Standard	Low	High	Duration
Operating temperature	EN/IEC 60068-2-2, Test Bd: Dry heat	-30 degC	+90 degC	-
Temperature cycling	EN/IEC 60068-2-14, Test Na: Change of temperature	-40 degC	+90 degC	500 cycles / 10 min
Storage life Humidity	EN/IEC 60068-2-1, Test Ca: Damp heat	+60 degC / 90% RH 500		500 h
Storage life Low temperature	EN/IEC 60068-2-1, Test Ad: Cold	-55 degC	-	500 h
Storage life High temperature	EN/IEC 60068-2-2, Test Bb: Dry heat	-	+125 degC	500 h

10.2 Judgement standard

The judgement of the above tests should be made as follows:

- 1. Visual inspection Normal apperance with no obvious cracking, peeling-off.
- 2. Electrical inspection The antenna satisfies the VSWR specification throughout the 2.4-2.5 GHz band



11 Hazardous Material Regulation Conformance

Cadmium and cadmium compound. Lead and lead compound

Organic brominated compound (PBB, PBDE) Mercury and mercury compound

Polychlorinated biphenyl (PCB) Sexivalent chrome compound

Polychlorinated naphthalene (PCN) Chlorinated paraffin (CP)

Mirex

Asbestos Formaldehyde

Azo compound Tetra-bromo-bisphenol-A-bis (TBBP-A-bis)

12 Packaging

Organic tin compound

12.1 Shelf storage recommendation

Temperature	-10 to +40 degree C	
Humidity	Less than 75% RH	
Shelf Life	48 Months	
Storage place	Away from corrosive gas and direct sunlight	

12.2 Packaging characteristics

The antennas are delivered in bulk enclosed in plastic bags

12.3 Bag label information

antenova°

Antenova Article number : XXXXAXXXX-XX

Description: Product name, Frequenzy Hz
Reel Quantity: XXXX Pcs.
Order No: Customer PO number
Date: YYMMDD



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