

## AD-305N

Dipole Antenna, 5dBi/5dBi 2.4G/5GHz  
5dBi/5dBi Omnidirectional RP-SMA(M)



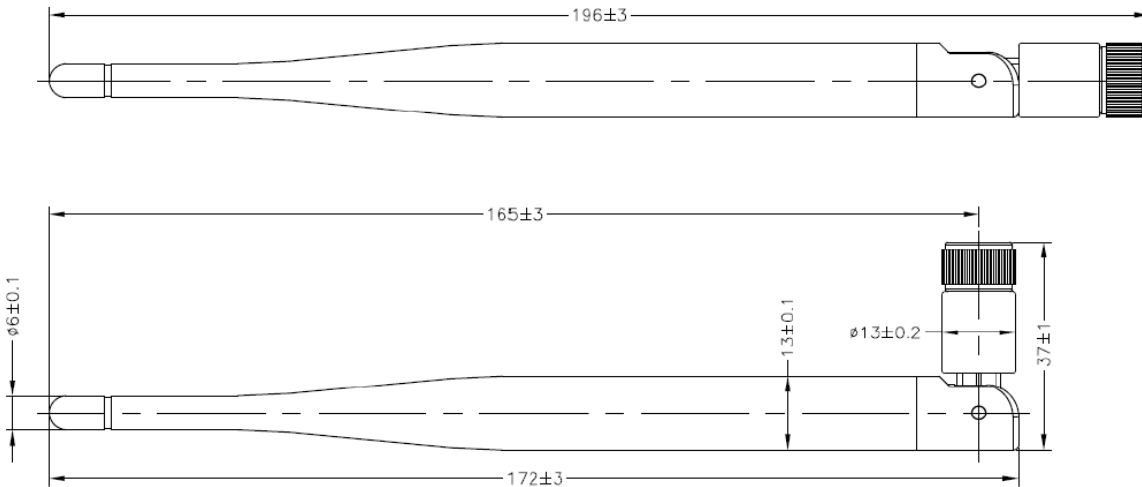
### Wireless Embedded System Antenna Solution

Ant. AD-305N is a dual-band dipole antenna for the 2.4 to 2.5 GHz and 5.15 to 5.825 GHz band with 5 dBi and 5 dBi gain on each band. This antenna has a RP-SMA plug connector can provides broad coverage and ideally suited for wireless LAN.

### Specification

<b>Description</b>	Model Name	Ant. AD-305N
	Color	Black
<b>Electrical Characteristics</b>	Antenna Type	Dual-Band Dipole
	Operating Frequency Range	2400 to 2500 MHz
		5150 to 5825 MHz
	Polarization Type	Linear ; Vertical
	Type of Radiation	Toroidal
	Peak Gain	2.4-2.5GHz@5dBi
		5.15-5.825GHz@5dBi
Impedance	50 Ohms	
V.S.W.R.	≤ 2.0	
<b>Mechanical Characteristics</b>	Connector Type	RP-SMA (M)
<b>Raw Material</b>	Coaxial Cable	RG-178
	Housing	TPU
	Hinge	PC+ALLOY

**Drawing Antenna**

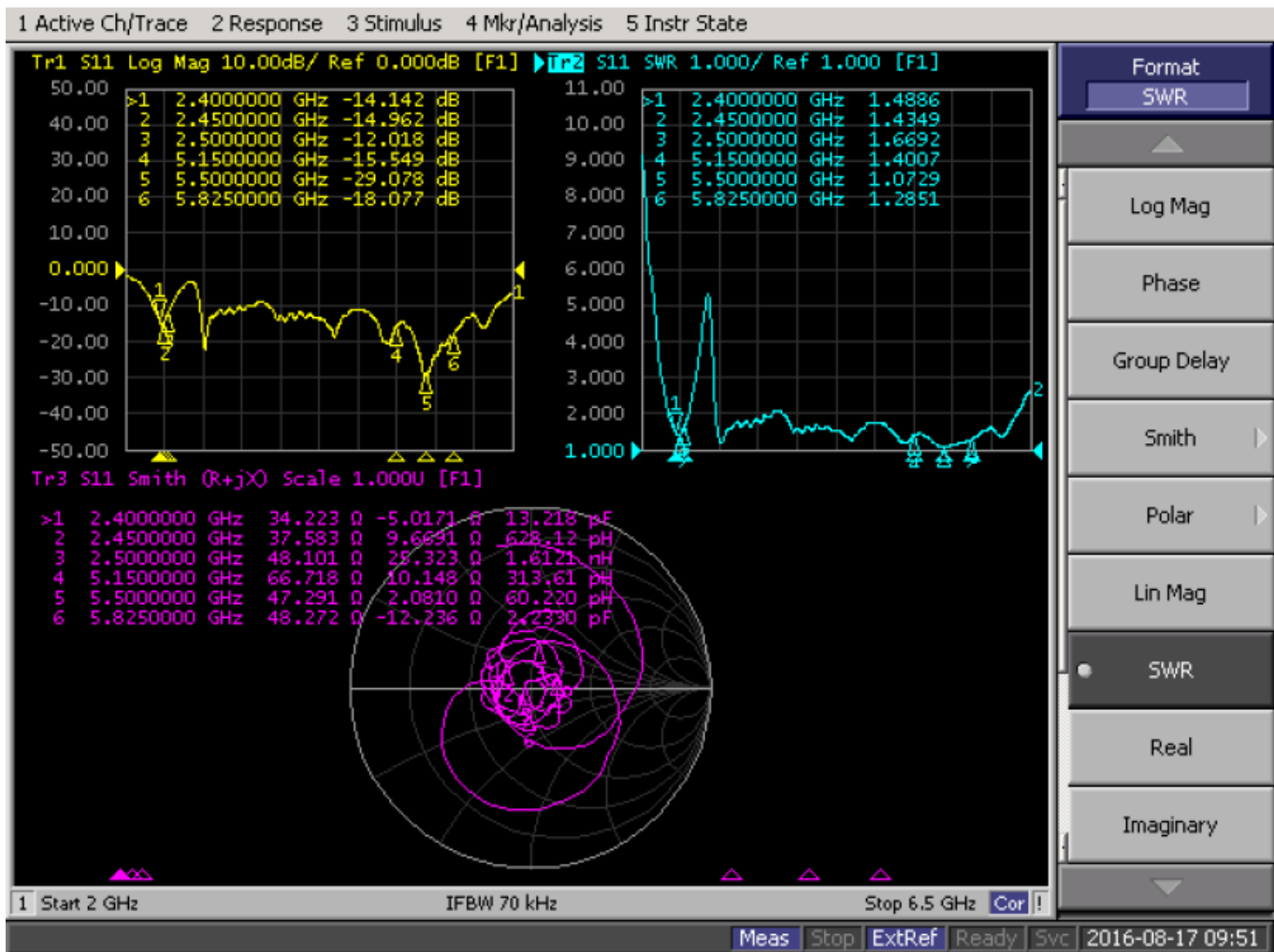


**Tolerances:**

- X: ±0.5
- X.X: ±0.3
- X.XX: ±0.1
- Angular: ±5.0°

**Electrical Properties**

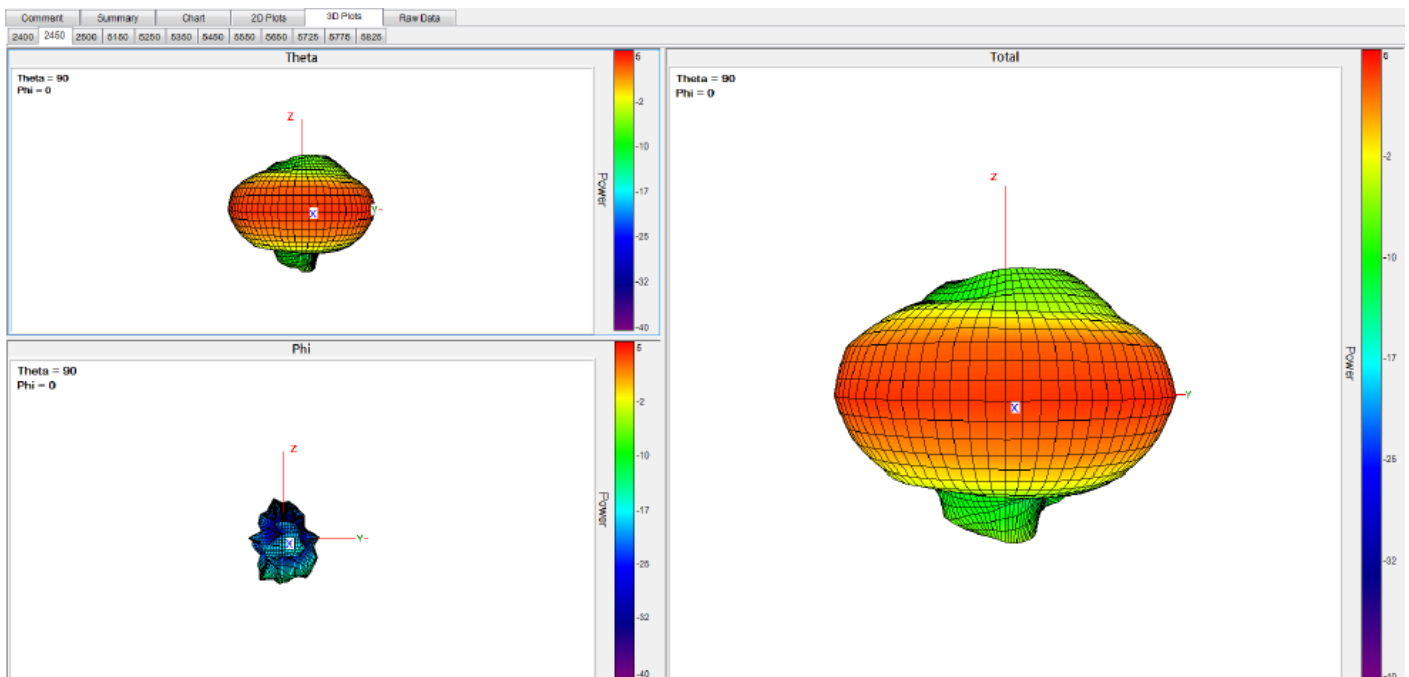
**Ant S-Parameter, VSWR & Smith Chart**



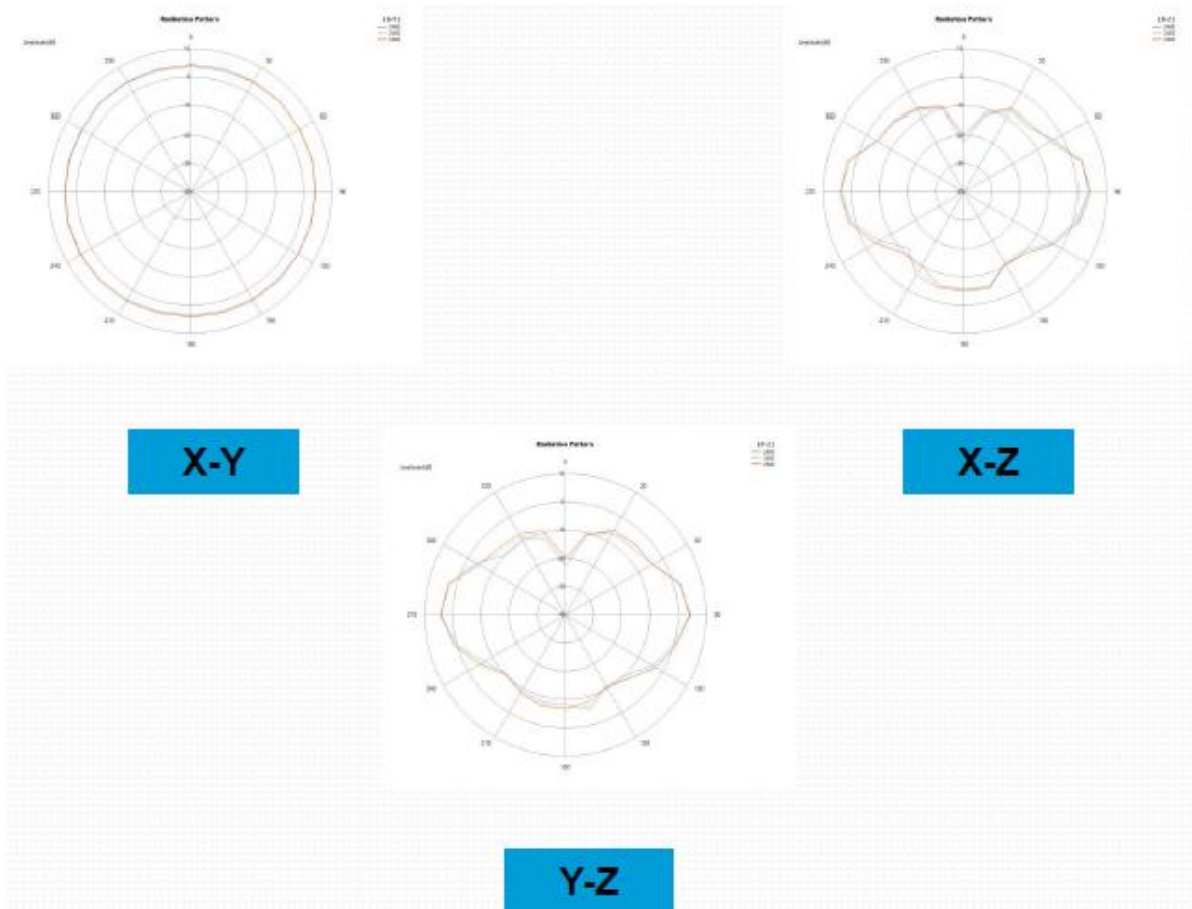
**Typical Performance**

Ant												
Frequency (MHz)	2400	2450	2500	5150	5250	5350	5450	5550	5650	5725	5775	5825
Efficiency (dB)	-1.77	-1.32	-1.42	-1.27	-1.49	-1.62	-1.58	-1.39	-1.43	-1.69	-1.66	-1.71
Peak Gain (dBi)	4.62	5.00	4.85	5.53	5.44	5.26	5.43	5.53	5.01	4.69	4.69	4.57
Efficiency (%)	66.47	73.82	72.07	74.69	70.91	68.8	69.51	72.62	71.93	67.84	68.24	67.39

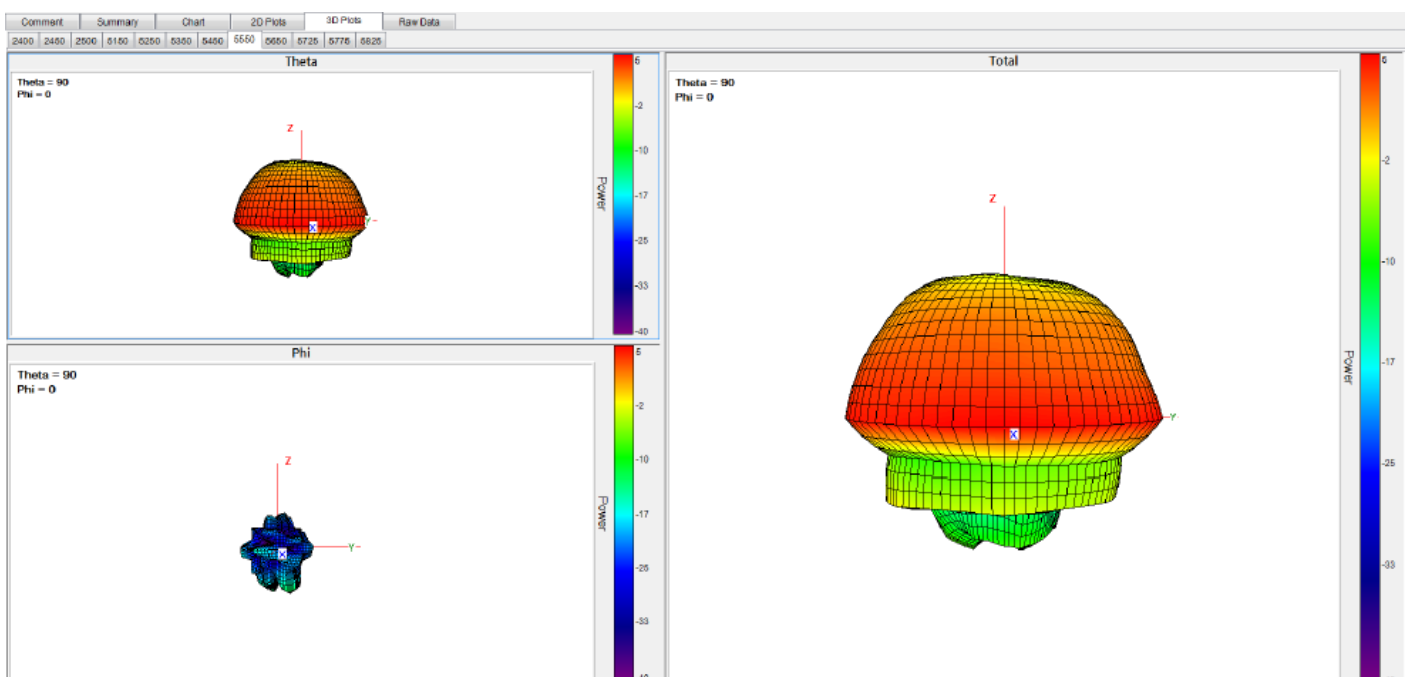
**2.4G 3D Gain pattern**



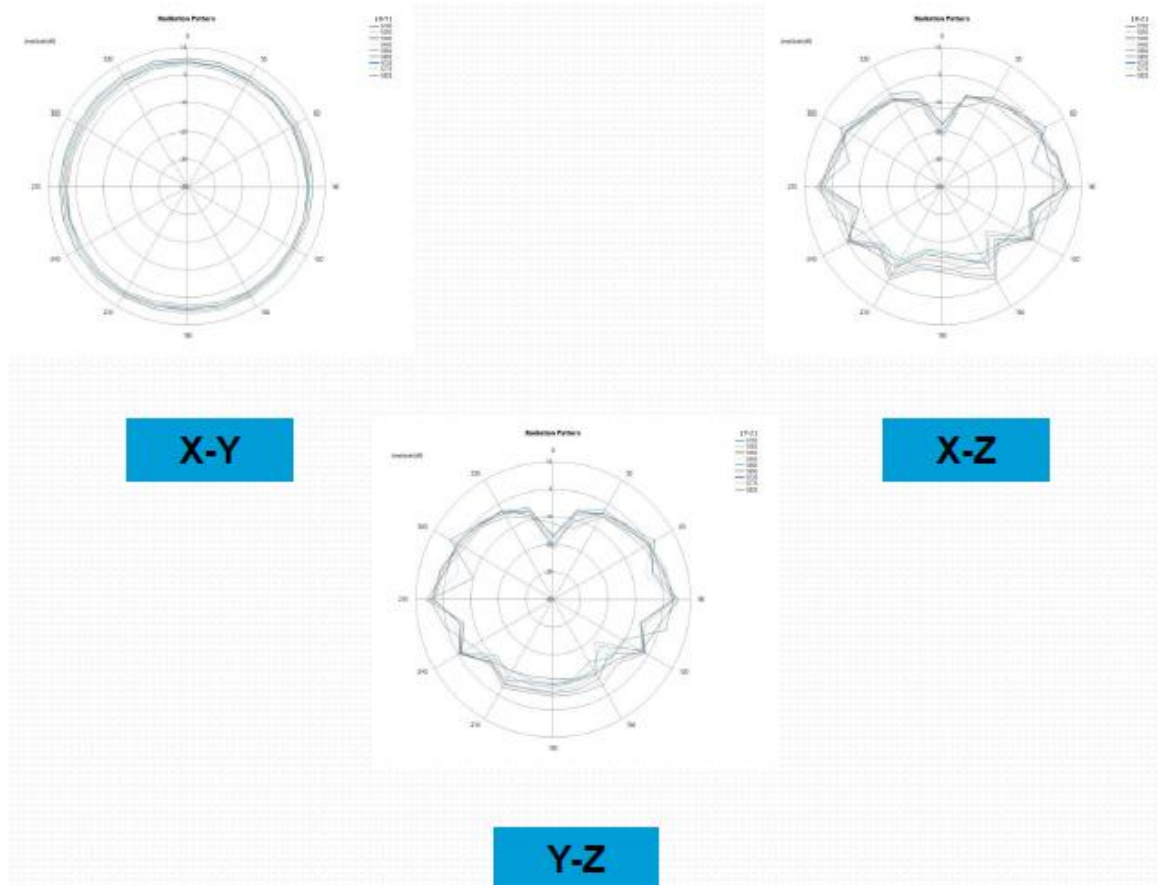
**2.4G 2D Gain pattern**



**5G 3D Gain pattern**



**5G 2D Gain pattern**



**Ordering Information**

Product Name	Part Number	Description
<a href="#">Ant. AD-305N</a>	R3410110223	Dipole Antenna, 5dBi/5dBi 2.4G/5GHz, RP-SMA(M) connector