

AC202 Wi-Fi Antenna

4.1 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	<u>AC202 Wi-Fi ANT</u>		
2	Brand	<u>DJI</u>		
3	Operation Frequency	<u>2.4~2.483GHz;</u> <u>5.150~5.875GHz</u>		
4	Connector Type	Shrapnel		
5	Impedance	50ohm		
6	Gain	0 dBi@2.4~2.4835GHz 0 dBi@5.15~5.25GHz -2.5 dBi@5.725~5.85GHz		
7	Efficiency	$\geq 25\%$		
8	VSWR	≤ 2		
9	Polarization type	Linear		
10	3dB Beamwidth	Omnidirectional horizon		
11	Weight			



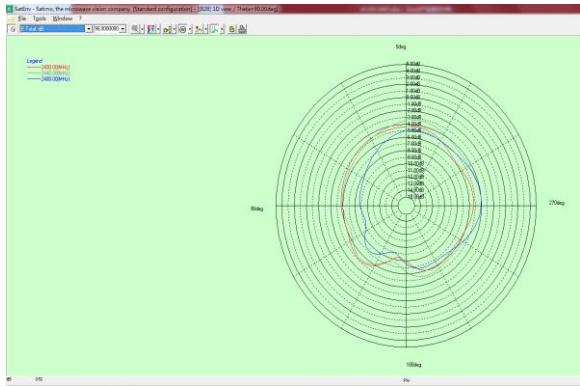
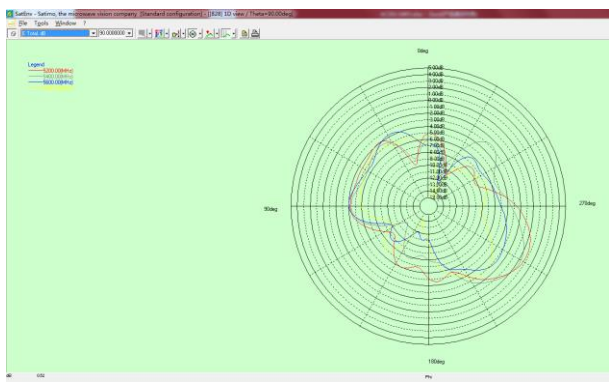
4.2 Gain & Efficiency

Frequency	Efficiency	
	%	dB
2400MHz	27%	-5.62
2410MHz	30%	-5.25
2420MHz	33%	-4.84
2440MHz	32%	-4.92
2450MHz	32%	-4.90
2460MHz	30%	-5.20
2470MHz	26%	-5.81
2480MHz	23%	-6.33
5150MHz	21%	-6.78
5200MHz	23%	-6.29
5250MHz	24%	-6.17
5300MHz	27%	-5.75
5350MHz	31%	-5.13
5400MHz	30%	-5.18
5450MHz	32%	-4.99
5475MHz	29%	-5.38
5500MHz	29%	-5.44
5525MHz	28%	-5.55
5550MHz	27%	-5.75
5575MHz	26%	-5.87
5600MHz	26%	-5.86
5600MHz	26%	-5.86
5625MHz	24%	-6.20
5650MHz	24%	-6.23
5675MHz	24%	-6.17
5700MHz	22%	-6.67
5725MHz	22%	-6.59
5750MHz	20%	-6.94
5775MHz	18%	-7.38
5800MHz	17%	-7.73
5825MHz	16%	-7.91
5850MHz	14%	-8.52

Frequency	Gain (dB)
2400MHz	-2.04
2410MHz	-1.70
2420MHz	-1.13
2440MHz	0.00
2450MHz	-0.94
2460MHz	-1.15
2470MHz	-1.56
2480MHz	-2.00
5150MHz	-0.92
5200MHz	0.00
5250MHz	-0.24
5300MHz	-0.34
5350MHz	0.31
5400MHz	0.09
5450MHz	0.30
5475MHz	-0.14
5500MHz	-0.14
5525MHz	-0.32
5550MHz	-0.27
5575MHz	-0.60
5600MHz	-0.68
5600MHz	-0.69
5625MHz	-1.26
5650MHz	-1.63
5675MHz	-1.60
5700MHz	-2.59
5725MHz	-2.50
5750MHz	-3.23
5775MHz	-3.81
5800MHz	-3.64
5825MHz	-3.62
5850MHz	-4.20



4.3 radiation pattern

	2.4GHz	5.1&5.8GHz
Theta=90	 <p>The plot shows the radiation pattern for the 2.4GHz band at a theta angle of 90 degrees. The x-axis represents frequency from 2400MHz to 2480MHz, and the y-axis represents gain from 0dB to 20dB. The pattern shows a main lobe centered around 2425MHz with a peak gain of approximately 18dB. There are several side lobes, with the most prominent one at approximately 2455MHz reaching about 12dB. The plot includes a legend for the 2.4GHz band and a title bar indicating the software used for the simulation.</p>	 <p>The plot shows the radiation pattern for the 5.1 and 5.8GHz bands at a theta angle of 90 degrees. The x-axis represents frequency from 5100MHz to 5900MHz, and the y-axis represents gain from 0dB to 20dB. The pattern shows a main lobe centered around 5600MHz with a peak gain of approximately 18dB. There are several side lobes, with the most prominent one at approximately 5300MHz reaching about 12dB. The plot includes a legend for the 5.1&5.8GHz bands and a title bar indicating the software used for the simulation.</p>

4.4 Structure drawing

