
DJI Antenna Datasheet

RM220 SDR antenna

2022-09-26



Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Stephen.wan	2022.08.09

DJI Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	RM220 SDR Ant		
2	Brand	DJI		
3	Operation Frequency	SDR antenna: 2.4~2.483GHz; 5.725~5.85GHz;		
4	Connector Type	Ipex-4		
5	Impedance	50ohm		
6	Gain	SDR antenna TRX: 0.5dBi@2.4~2.483GHz 1.5dBi@5.725~5.875GHz		
7	Efficiency	SDR antenna $\geq 40\%$		
8	VSWR	≤ 2		
9	Polarization type	Linear		
10	3dB Beam width	Omnidirectional		
11	Weight	1g		
12	Antenna type	SDR: dipole antenna		

	SDR antenna	2.4GHz	5.8GHz
TX/RX	Ant1-SDR inner front/ top	0.5dBi	1.5dBi

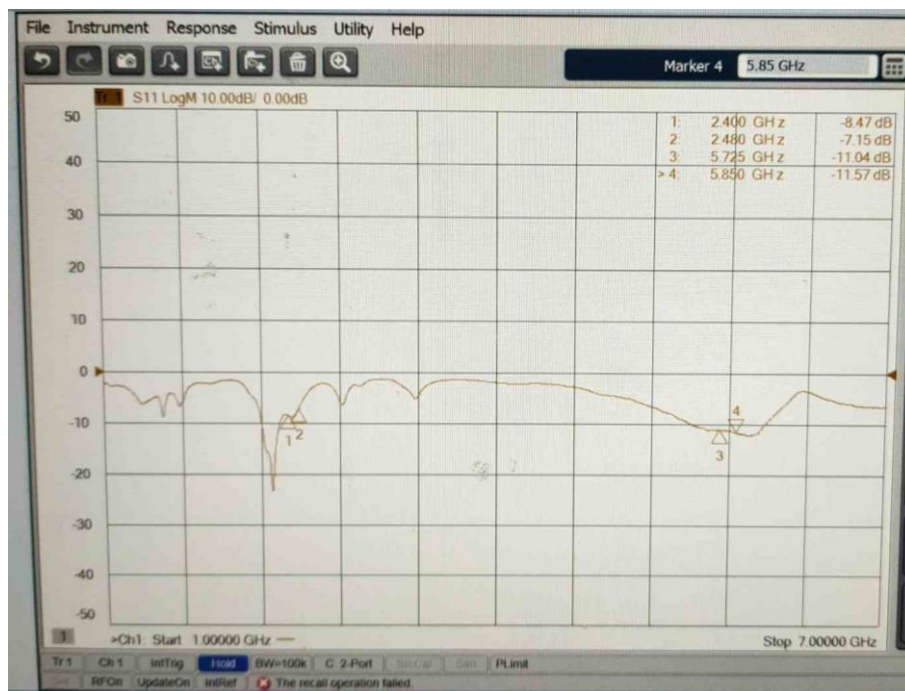


SDR antenna efficiency and gain:

Frequency	Efficiency	Gain . dB
2400MHz	53%	0.32
2410MHz	53%	0.37
2420MHz	60%	0.39
2430MHz	59%	0.46
2440MHz	56%	0.45
2450MHz	55%	0.39
2460MHz	56%	0.34
2470MHz	52%	0.29
2480MHz	49%	0.23
5725MHz	67%	1.22
5750MHz	64%	1.24
5775MHz	65%	1.46
5800MHz	61%	1.44
5825MHz	61%	1.36
5850MHz	59%	1.23

2、 Antenna Return Loss/VSWR

SDR ant inner



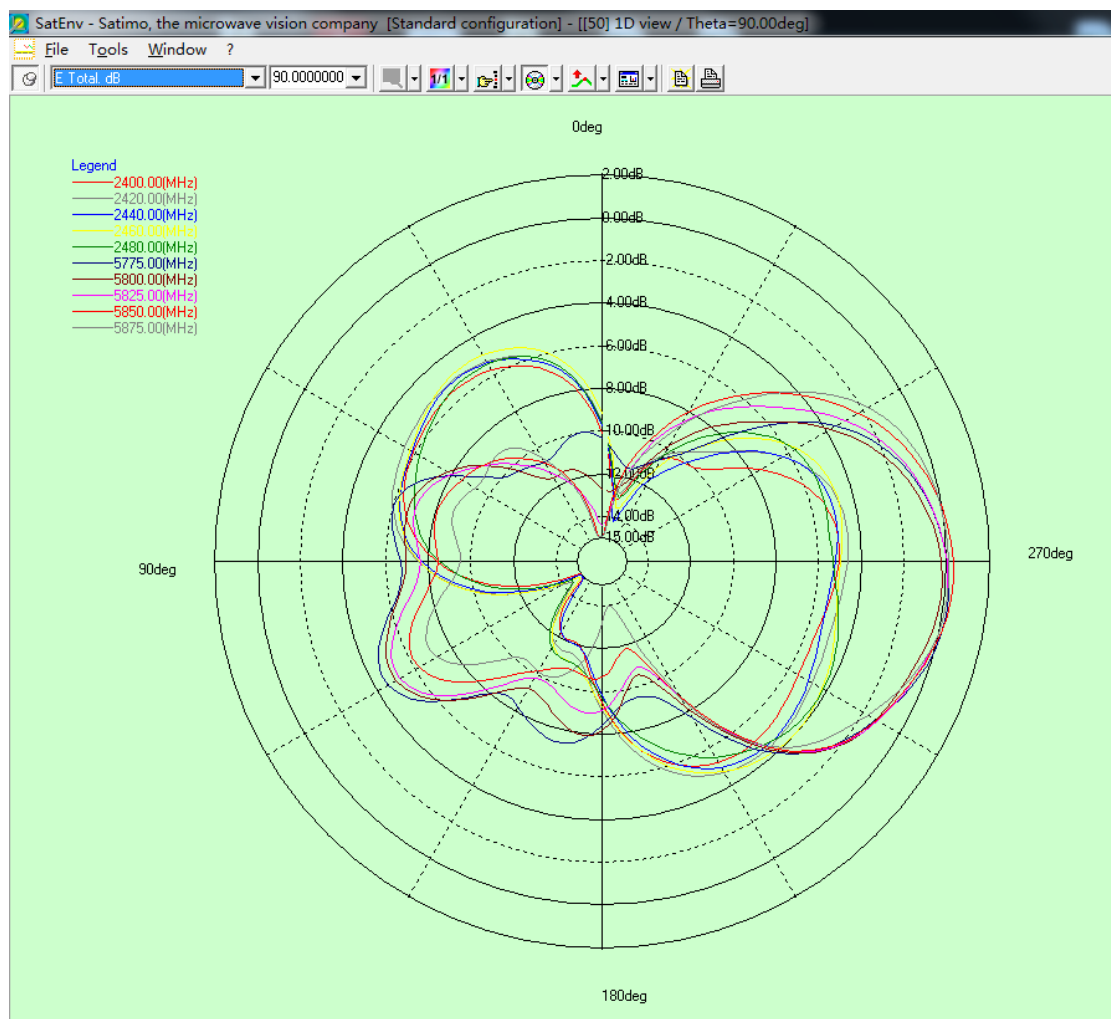
3、 Radiation Pattern

Test lab: Satimo SG24

Test date: 2022/07/25

3.1 SDR inner-front antenna radiation pattern

Theta=90



Phi=90

