

DJI Antenna Datasheet

RM510 4G antenna

2022-02-28



Revision history

Version	Change notes	Modifier	Date
V1.0	First draft.	Freeman.deng	2022.02.28

DJI Antenna Datasheet

1、 Basic Specifications

No.	Specification	Descriptions	Notes	
1	Antenna Name	RM510 4G Ant		
2	Brand	DJI		
3	Operation Frequency	700~960MHz 1710~2690MHz		
4	Connector Type	TS5		
5	Impedance	50ohm		
6	Gain	$\leq -5\text{dBi}$ @ 700~960MHz $\leq -4\text{dBi}$ @ 1710~2690MHz		
7	Efficiency	$\geq 10\%$		
8	VSWR	≤ 3		
9	Polarization type	Linear		
10	3dB Beam width	Omnidirectional		
11	Weight	1g		
12	Antenna type	IFA antenna		

4G antenna efficiency and gain:

Frequency	Efficiency	Gain . dB
770	10%	-10.14530657
780	10%	-10.02000232
790	10%	-10.08838941
800	10%	-9.874914375
810	12%	-9.388262477

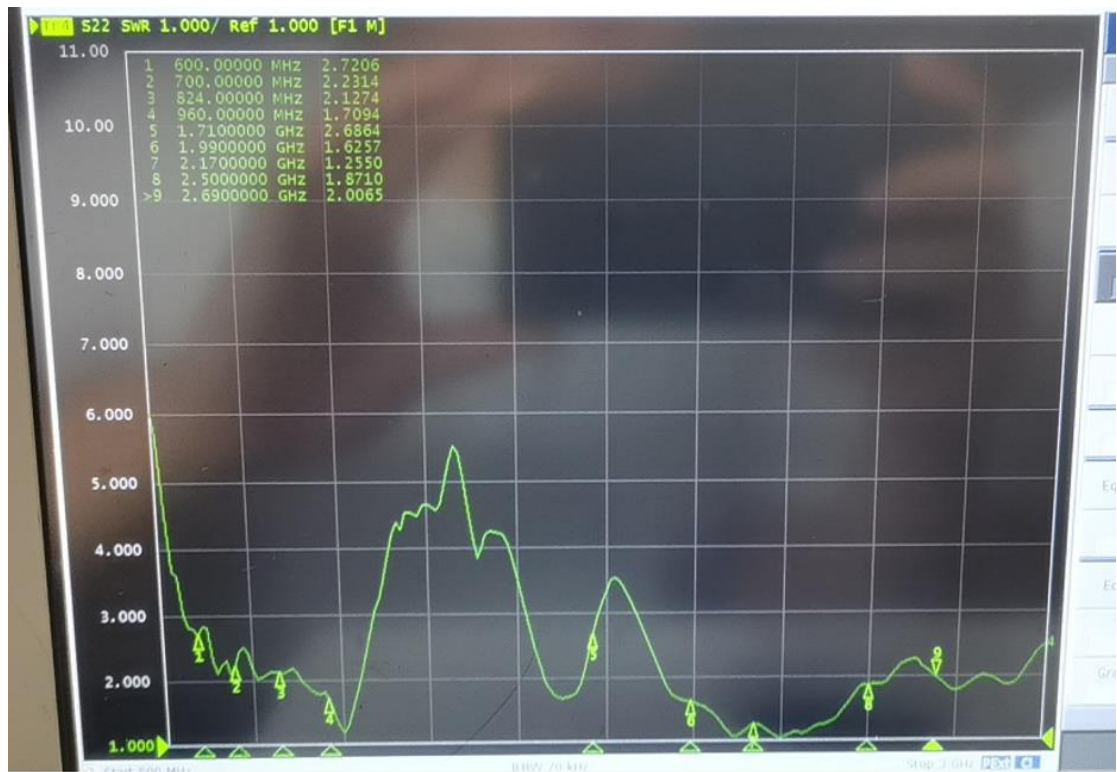


820	13%	-8.973842185
830	14%	-8.654207227
840	16%	-8.056566267
850	19%	-7.162380861
860	22%	-6.653442841
870	23%	-6.311931539
880	25%	-6.076525806
890	25%	-5.967484572
900	24%	-6.235565526
910	21%	-6.688410009
920	18%	-7.381447587
930	15%	-8.169939995
940	13%	-8.843540474
950	12%	-9.211413701
960	10%	-9.866229843
1710	20%	-7.000478958
1730	21%	-6.733213812
1750	22%	-6.582923061
1770	20%	-6.905169031
1790	20%	-6.99610844
1810	19%	-7.249920087
1830	18%	-7.351704585
1850	19%	-7.265185427
1870	20%	-7.018873593
1890	20%	-6.923640354
1910	22%	-6.511257454
1930	21%	-6.698757482
1950	20%	-7.001720974
1970	19%	-7.185535488
1990	18%	-7.353975149
2010	16%	-7.841903041
2030	16%	-7.856219195
2050	15%	-8.168517529
2070	16%	-7.934305814
2090	15%	-8.176389402
2110	18%	-7.492484829
2130	20%	-7.080732054
2150	22%	-6.550753846
2170	24%	-6.238118635
2190	23%	-6.347162327
2210	28%	-5.548679782



2230	31%	-5.149462976
2250	34%	-4.639018467
2270	33%	-4.847131331
2290	28%	-5.455906358
2310	25%	-6.003284369
2330	23%	-6.363892272
2350	22%	-6.662693424
2370	18%	-7.463087617
2390	15%	-8.339208417
2410	13%	-8.96020702
2430	10%	-10.19371763
2450	18%	-9.14971102
2470	15%	-9.88883675
2490	16%	-9.41421401
2510	17%	-9.61406668
2530	11%	-9.528144298
2550	15%	-8.363142309
2570	17%	-7.669677911
2590	20%	-7.031245825
2610	20%	-6.970068479
2630	21%	-6.831581715
2650	19%	-7.218547441
2670	20%	-7.090341966
2690	16%	-8.094262373

2、 VSWR

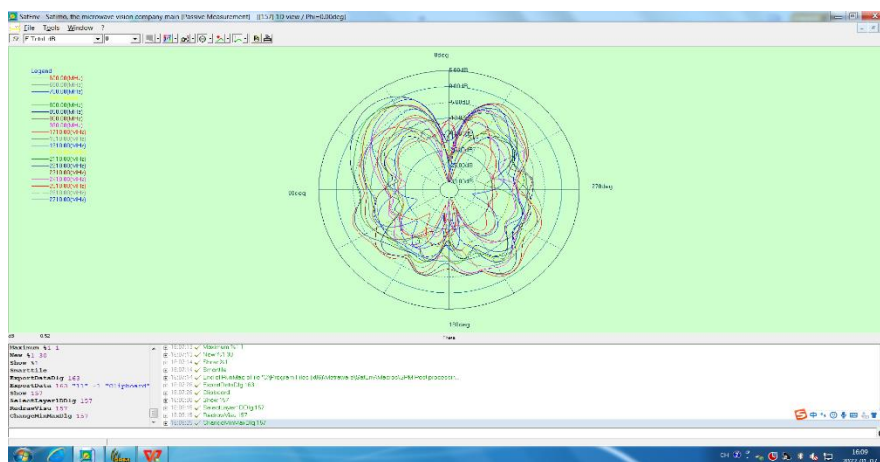


3、 Radiation Pattern

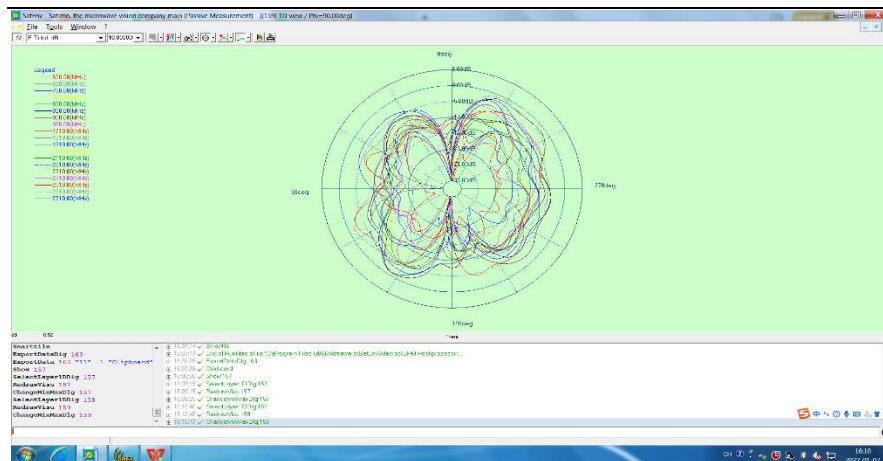
Test lab: ETS OTA chamber

Test date: 2021/10/19

Phi=0



Phi=90

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