

SPECIFICATION

Xiamen Green Light Technology Co.,Ltd

IQ4 Dual WiFi Antenna Product Approval Sheet

Customer	Hanyin	Frequency Band	<u>2400MHz~2500MHz;</u> <u>5150MHz~5850 MHz</u>
Model	IQ4		
Project Number	RQ03B142794- WIFI	Color	Natural Color
RF Designer	He Yibai	Structure Engineer	Zhou Jun
Technical Director	Fu Yicheng	Date	2025/07/02

Customer Confirmation:

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1.Product Images

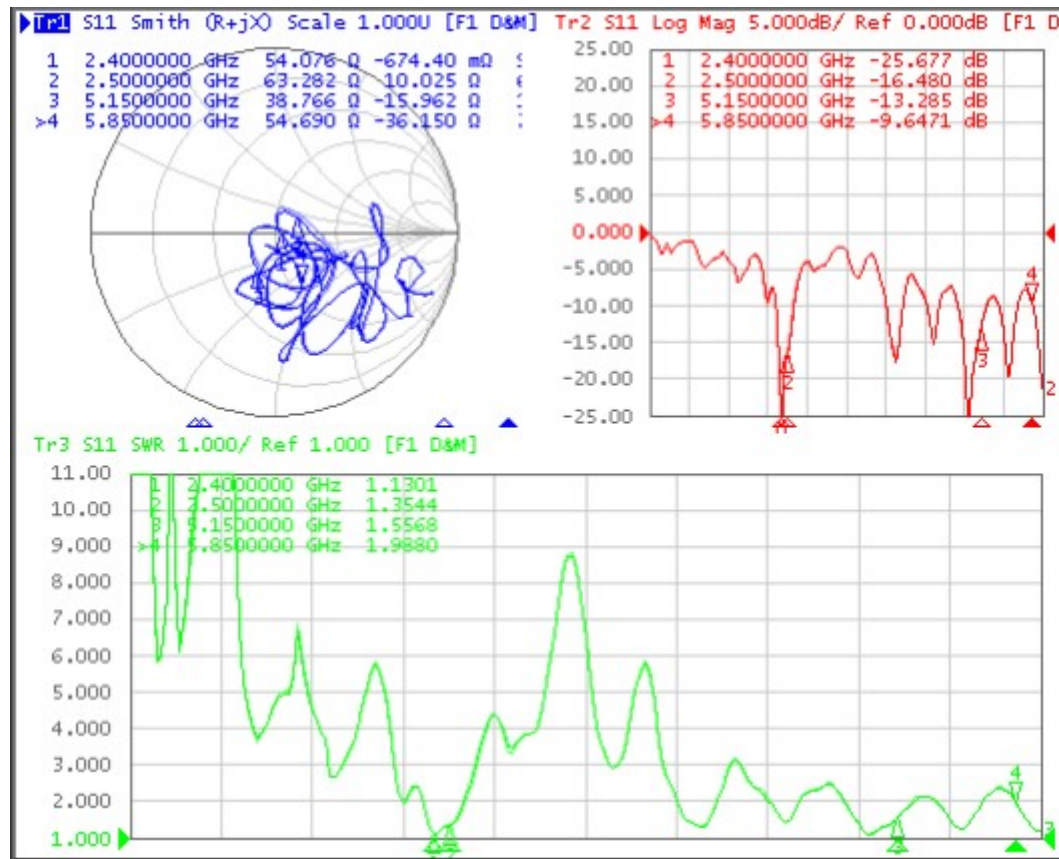


2. Product Parameters

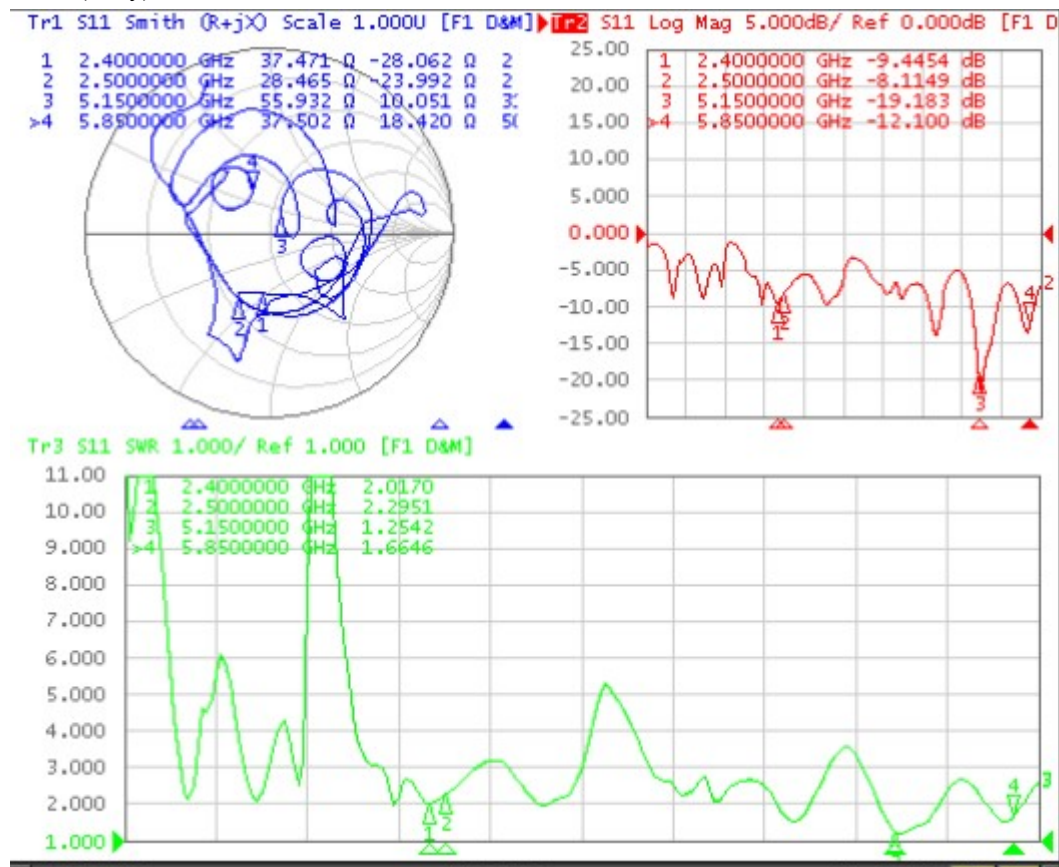
产品测试参数 （Product Test Parameters）			
产品名称 (Name)	胶棒双 WIFI 外置天线 (Rubber Stick Dual WiFi External Antenna)	产品型号(Model Type)	IQ4
电 性 能 指 标 (Electrical Specifications)			
频率范围 (Frenquency Range)	2400-2500MHZ 5150-5850MHZ	极化方式 (Polarization)	垂直 (Vertical)
输入阻抗(Impedance)	50 Ω	辐射方向 (Radiation Direction)	全向 (Omnidirectional)
驻波比 (VSWR)	2.0	功率容量(Power)	50W
增益(Gain)	/	带宽 (Bandwidth)	/
机 械 指 标 (Mechanical Specifications)			
尺寸 (Dimensions)	190mm	天线颜色(Radome Color)	黑色(Black)
连接器型号 (Connector)	一代端子 (1st-Generation Terminal)	引线长度(Cable Length)	40mm/55mm
外壳材料 (Radome Material)	ABS+PC		
工作温度 (Working Temperature)	-10℃-+60℃	存放温度 (Limit Temperature)	-10℃-+30℃

3. S11 (VSWR, Return Loss, Smith) Data

WiFi (Black)



WIFI (Gray)



4.Passive Report:

4-1 Efficiency Test

WiFi (Black Cable)

2400-2500Mhz

Frequency	Efficiency	Gain . dB
2400000000	91.13%	4.73
2410000000	92.66%	4.81
2420000000	92.39%	4.81
2430000000	93.02%	4.65
2440000000	90.54%	4.55
2450000000	90.43%	4.48
2460000000	88.46%	4.46
2470000000	84.07%	4.27
2480000000	82.84%	4.07
2490000000	79.64%	3.63
2500000000	79.52%	3.56

5150-5850 Mhz

Frequency	Efficiency	Gain . dB
5150000000	66.69%	6.95
5160000000	69.32%	7.02
5170000000	70.86%	7.12
5180000000	69.88%	7.15
5190000000	74.01%	7.17
5200000000	77.11%	7.23
5210000000	80.87%	7.12
5220000000	79.37%	7.62
5230000000	85.36%	7.90
5240000000	85.30%	8.09
5250000000	88.91%	8.20
5260000000	88.87%	8.21
5270000000	89.07%	8.35
5280000000	89.68%	8.34
5290000000	84.41%	8.18
5300000000	77.22%	7.59
5310000000	77.42%	7.73
5320000000	70.27%	7.40
5330000000	70.17%	7.48
5340000000	70.41%	7.26
5350000000	72.50%	7.20
5360000000	70.85%	7.32
5370000000	69.30%	7.38
5380000000	71.25%	7.50
5390000000	69.07%	7.36
5400000000	68.51%	7.26
5410000000	71.70%	7.16
5420000000	68.43%	7.36
5430000000	70.76%	7.71
5440000000	68.97%	7.62
5450000000	70.13%	7.70
5460000000	70.98%	7.71
5470000000	76.40%	8.12
5480000000	69.43%	7.70
5490000000	76.16%	8.37
5500000000	67.80%	7.55
5510000000	77.16%	8.35
5520000000	69.82%	7.73
5530000000	74.61%	7.99
5540000000	76.15%	8.27
5550000000	79.52%	8.47
5560000000	80.64%	8.44
5570000000	79.71%	8.05
5580000000	82.94%	8.53
5590000000	87.75%	9.05
5600000000	73.62%	9.01
5610000000	73.97%	9.26
5620000000	79.03%	9.34
5630000000	75.62%	9.16
5640000000	70.03%	9.33
5650000000	76.26%	9.57
5660000000	74.79%	9.23
5670000000	80.31%	9.54
5680000000	83.55%	8.85
5690000000	87.64%	8.96
5700000000	74.60%	8.50
5710000000	80.96%	8.73
5720000000	66.85%	7.77
5730000000	65.73%	7.93
5740000000	60.32%	7.06
5750000000	53.10%	7.20
5760000000	58.66%	7.65
5770000000	52.57%	7.04
5780000000	57.96%	7.43
5790000000	57.33%	7.62
5800000000	57.25%	7.69
5810000000	65.26%	7.99
5820000000	59.32%	7.93
5830000000	78.94%	8.28
5840000000	59.33%	7.86
5850000000	80.50%	8.61

WiFi (Gray Cable)

2400-2500Mhz

Frequency	Efficiency	Gain . dB
2400000000	69.31%	3.27
2410000000	70.53%	3.31
2420000000	69.21%	3.23
2430000000	68.54%	3.10
2440000000	66.72%	2.82
2450000000	65.74%	2.69
2460000000	63.82%	2.38
2470000000	61.91%	2.35
2480000000	62.09%	2.73
2490000000	60.82%	2.94
2500000000	61.29%	3.29

5150-5850Mhz

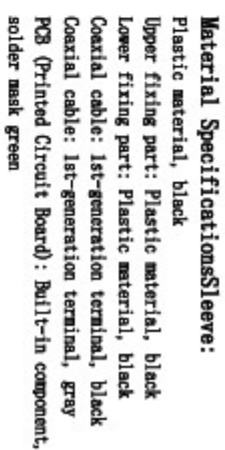
Frequency	Efficiency	Gain . dB			
5150000000	82.07%	5.15	5510000000	86.54%	5.97
5160000000	80.58%	4.71	5520000000	84.27%	5.85
5170000000	80.13%	5.04	5530000000	86.25%	5.63
5180000000	80.88%	5.19	5540000000	88.99%	5.93
5190000000	90.62%	5.56	5550000000	76.02%	6.57
5200000000	86.74%	5.54	5560000000	75.57%	6.56
5210000000	88.51%	5.56	5570000000	70.83%	5.82
5220000000	85.00%	5.47	5580000000	77.52%	6.19
5230000000	74.72%	5.60	5590000000	83.06%	6.76
5240000000	75.26%	6.01	5600000000	90.83%	6.63
5250000000	79.70%	6.11	5610000000	78.69%	6.28
5260000000	77.78%	5.93	5620000000	78.71%	6.86
5270000000	77.70%	5.99	5630000000	83.45%	6.14
5280000000	81.43%	5.83	5640000000	90.57%	6.09
5290000000	79.81%	6.01	5650000000	80.23%	5.42
5300000000	75.42%	5.81	5660000000	78.97%	5.78
5310000000	76.16%	5.94	5670000000	75.30%	4.94
5320000000	71.52%	6.00	5680000000	79.99%	4.54
5330000000	76.13%	5.84	5690000000	82.13%	5.08
5340000000	72.89%	5.83	5700000000	67.99%	4.95
5350000000	77.36%	6.07	5710000000	73.98%	4.13
5360000000	77.72%	5.88	5720000000	63.05%	3.51
5370000000	77.66%	5.55	5730000000	60.22%	4.03
5380000000	74.70%	5.81	5740000000	59.11%	3.54
5390000000	74.15%	5.90	5750000000	54.49%	3.42
5400000000	72.55%	6.32	5760000000	60.04%	3.79
5410000000	67.72%	5.36	5770000000	54.17%	3.14
5420000000	66.21%	5.33	5780000000	65.58%	4.27
5430000000	66.74%	4.87	5790000000	58.11%	3.77
5440000000	63.86%	5.59	5800000000	65.63%	4.77
5450000000	63.90%	5.70	5810000000	72.31%	4.86
5460000000	62.87%	5.11	5820000000	66.98%	4.19
5470000000	70.27%	5.65	5830000000	77.17%	5.28
5480000000	64.43%	5.25	5840000000	68.22%	4.38
5490000000	80.53%	6.09	5850000000	84.32%	6.06
5500000000	74.99%	6.28			

5. Performance Test

Item	Test Condition	Specification
Storage Environment	Unless specified otherwise, the test temperature, humidity and air pressure are as follows: 1. Temperature: -10℃~+60℃ 2. Relative Humidity: 0%-95% 3. Air Pressure: 86kpa-106kpa	Normal electrical and mechanical performance
High-Low Temperature Test	5 cycles between 60℃ and -10℃, then maintain under normal conditions for 1-2 hours, and check the appearance quality.	Dimensions meet the requirements, and mechanical and electrical performance meet the requirements
Constant Damp Heat Resistance Test	Relative Humidity: 95±3%, Test Temperature: 40℃, Duration: 2 hours. After the test, measure the electrical performance within 5 minutes after taking out the sample, then maintain the sample under normal conditions for 1-2 hours and check the appearance quality.	Dimensions meet the requirements, and mechanical and electrical performance meet the requirem
Vibration Test	Vibration Frequency Range: 10-55HZ, Displacement Amplitude: 0.35MM, Acceleration Amplitude: 50.0M/S, Sweep Cycle: 30 times	Normal electrical and mechanical performance
Drop Test	Free drop from 1m height for 3 times along mutually perpendicular axes	Normal electrical and mechanical performance

6. Product Dimensions

(See next page)



Dimensions without marked tolerances shall comply with the "Unmarked Tolerances" specified in the drawing.
Processing shall be strictly carried out in accordance with the dimensions on the drawing.
Dimensions marked with "*" are critical dimensions.
Materials shall meet the "RoHS" environmental protection requirements.

This drawing is issued internally by Miamen Green Light Technology Co., Ltd.
No copying, modifying, or removing this drawing from the company is permitted without authorization.

Xiamen Green Light Technology Co., Ltd.						
			Machine Type	IQ4		date
			Product Name	Butter Stick Dual WFF External Antenna		2024.06.11
0~10	±0.10	○	0.02			
10~20	±0.12	⊗	∅0.03			
20~40	±0.15	⊥	0.02	Material No.	Review	Structure
40~50	±0.20	∇	0.04	材 质		Zhou Jun
		∇	0.02			

日期	修 改 内 容	版 本	修 订	2		CODE		Unit		mm	Scale	FTT	Version	VI
1	2	3	4	5	6	7	8							

7.ROHS

RoHS Material Compliance Declaration Form

We hereby certify that the raw materials used for the components, auxiliary materials delivered to your company, as well as the additives used in the production process, all comply with the requirements of the RoHS Directive on Restriction of Hazardous Substances. The composition report of the raw materials, packaging materials used for components and auxiliary materials, and additives used in the production process is as follows:

[illegible]

8. Packaging Specifications

Packaging Diagram

Figure 1 (Box Packing)	Figure 2 (Box Sealing)
	

Packaging Process

Pack 100 products into one PE sealed bag.

Pack the PE sealed bags into cartons, with 300 pieces (3 bags) per carton (except for the last carton with remaining quantity). Attach the outer carton label on the upper right corner of the carton. The label content includes manufacturer, product name, model, quantity and production date.

Seal the carton with packing tape in a "H" shape.

Precautions

The label shall be fixed on the upper right corner of the carton. The label content includes: manufacturer, product name, model, quantity and production date.

Name	Dimension Specification	Quantity per Carton
PE Sealed Bag		3
Carton		1