



Jingyang-Y0SFG0CA0 Antenna Gain Report

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Build a smarter world



Project Overview

Antenna Gain Report

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Project Overview



Prototype schematic

- Device dimensions: 140mm*40mm*35mm
- Number of antennas: 2
- Network standard and frequency band:
 - ✓ WIFI: 2400MHz-2500MHz&5150MHz-5850MHz
 - ✓ 433MHz antenna



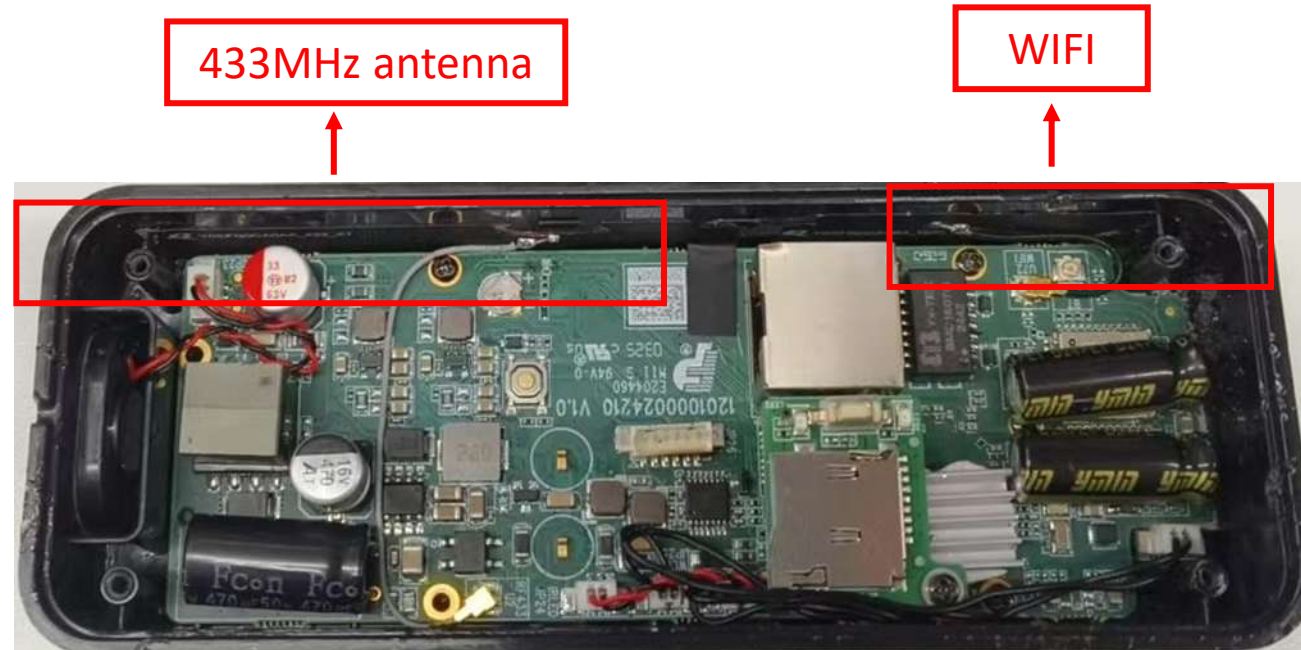
Project Overview

Antenna Gain Data

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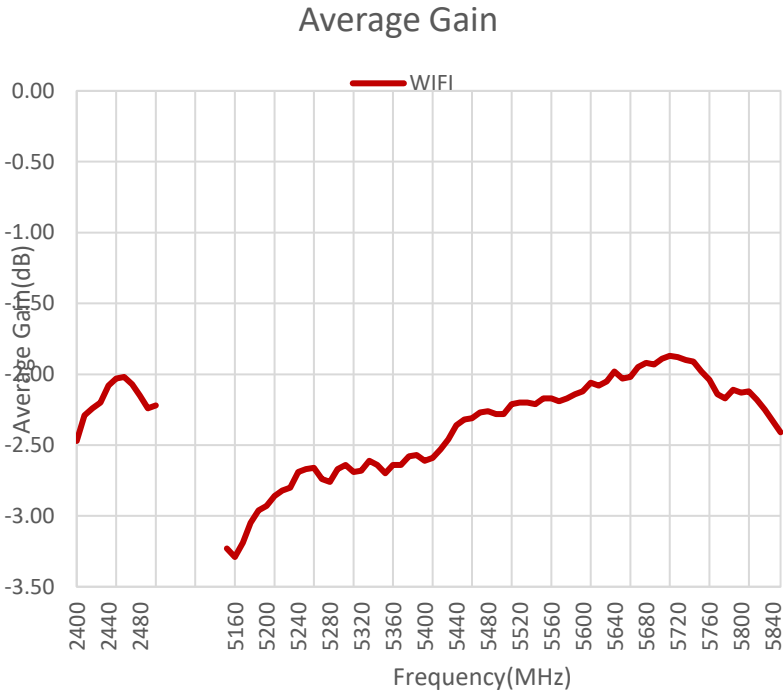
Antenna layout analysis



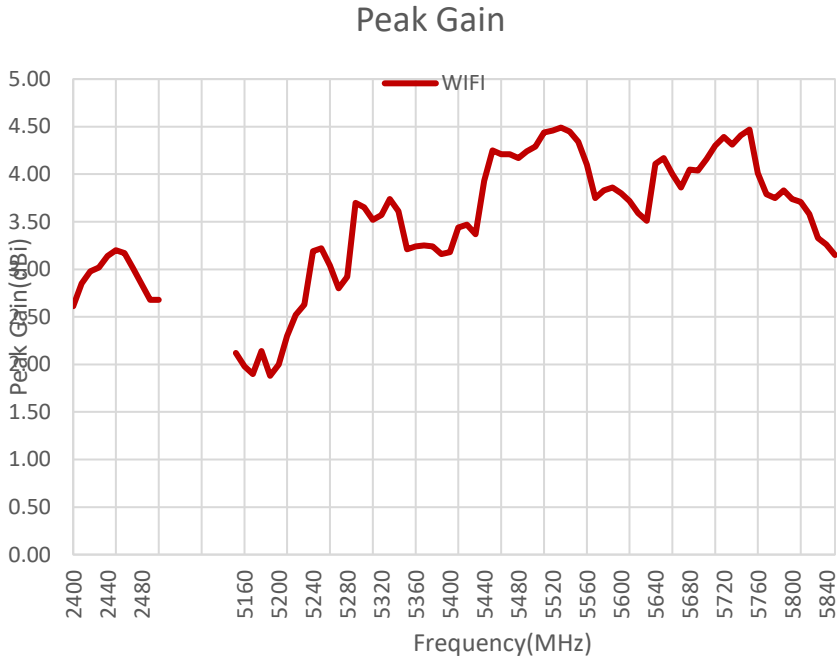
Passive Test



- Average Gain



- Peak Gain



Frequency	Peak Gain (dBi)	Average Gain(dB)	Efficiency(%)
2400.00	2.61	-2.47	56.58
2450.00	3.20	-2.03	62.71
2500.00	2.68	-2.22	59.96
5150.00	2.12	-3.23	47.54
5550.00	4.34	-2.17	60.67
5850.00	3.15	-2.41	57.38

Average Gain:

2400MHz-2500MHz > -2.5dB
5150MHz-5850MHz > -3.5dB

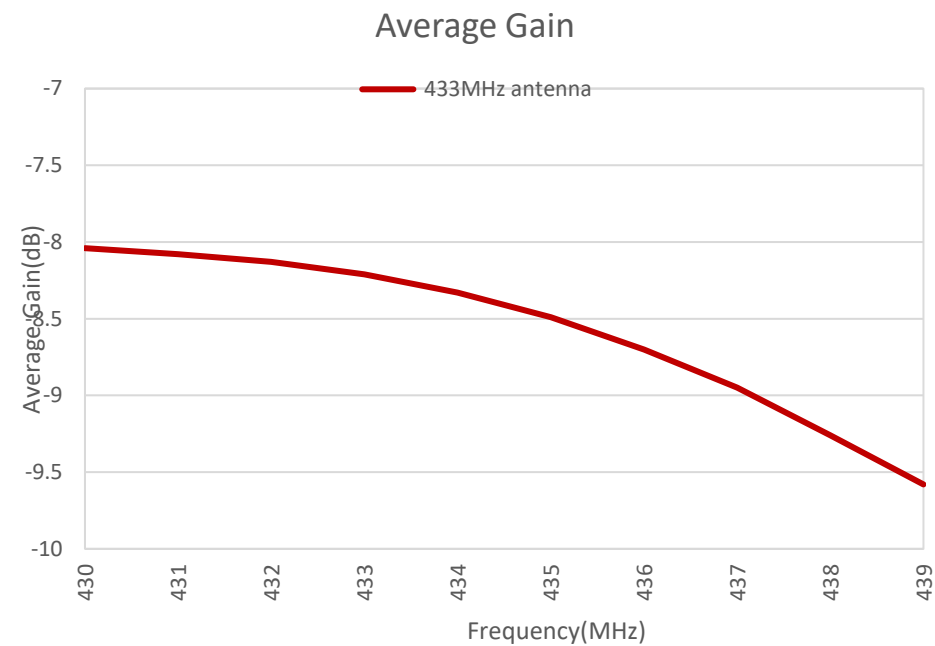
Peak Gain:

2400MHz-2500MHz > 2.5dBi
5150MHz-5850MHz > 1.5dBi

Passive Test



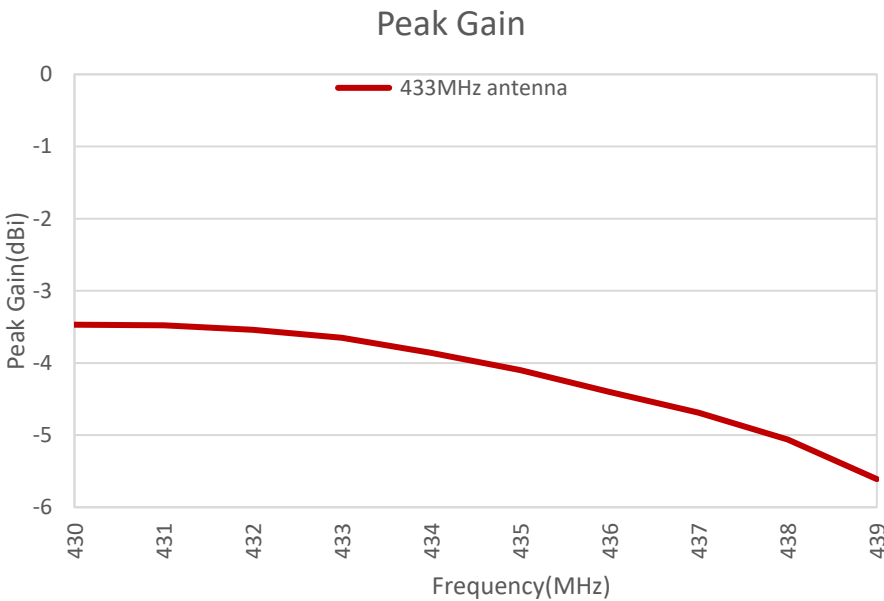
- Average Gain



Average Gain:

433MHz > -8.5dBi

- Peak Gain



Peak Gain:

433MHz > -4dBi

Frequency (MHz)	Average gain(dBi)	Peak gain(dBi)	Efficiency(%)
433	-8.21	-3.65	15.11