

Antenna Datasheet

Product OC: Y0RGH0CA2CA

Version: 1.0

Date: 2025-05-07

Product Name: External Wi-Fi Antenna

Key Features:

Frequency Band: 5925–7125 MHz

Dimensions: 164.79 mm × 23.79 mm × 21.05 mm

Efficiency: Up to 72 %

RoHS Compliant

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1 Specification

Test Condition: Assembled in test device

1.1. Electrical

Electrical	
Frequency Range	5925–7125 MHz
Impedance	50 Ω
Polarization	Linear
Radiation Pattern	Omni-directional
VSWR	≤ 1.4
Peak Gain	5.4 dBi

1.2. Mechanical & Environmental

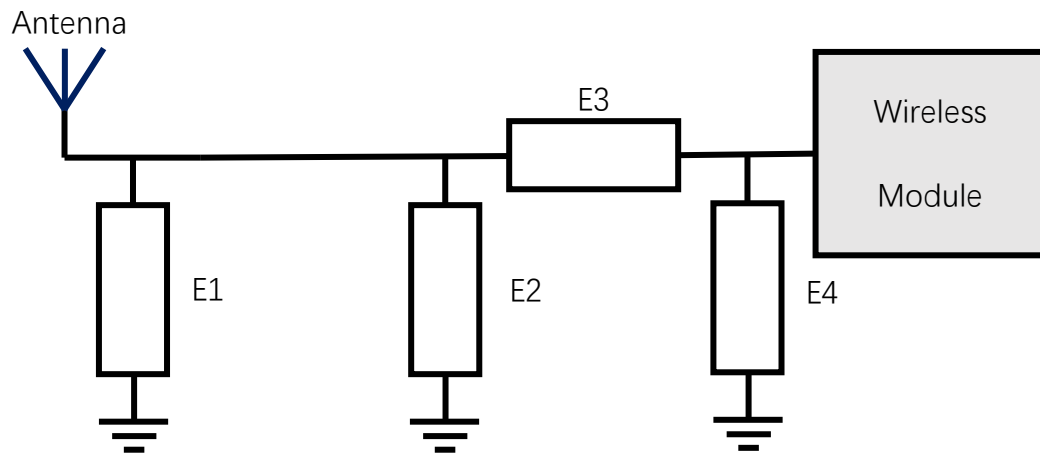
Mechanical	
Antenna Dimensions	164.79 mm × 23.79 mm × 21.05 mm
Material & Color	ABS & Blue-gray
Mounting Type	Φ 1.37 & Grey & 240 mm
Connector Type	RF1 & ETC
Mounting Type	Terminal
Weight	Typ. 24.9 g
Environmental	
Operation Temperature	-20 °C to +70 °C

Storage Temperature	-20 °C to +70 °C
RoHS Compliant	Yes

1.3. Antenna Assembly

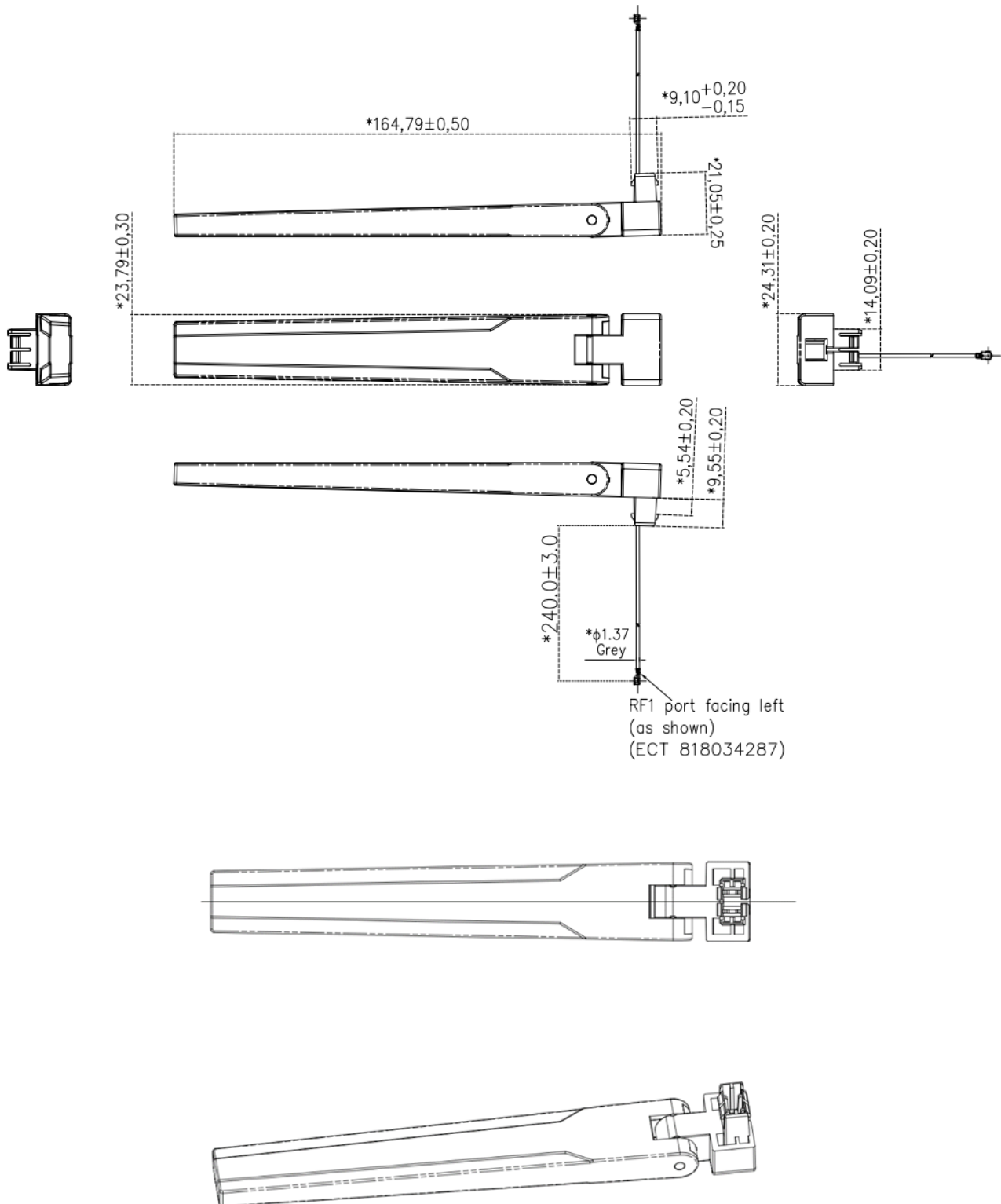


1.4. Matching Circuit



	E1	E1	E3	E4
Default Matching	DNI	DNI	0 Ω	DNI
Tolerance	N/A	N/A	$\pm 5\%$	N/A

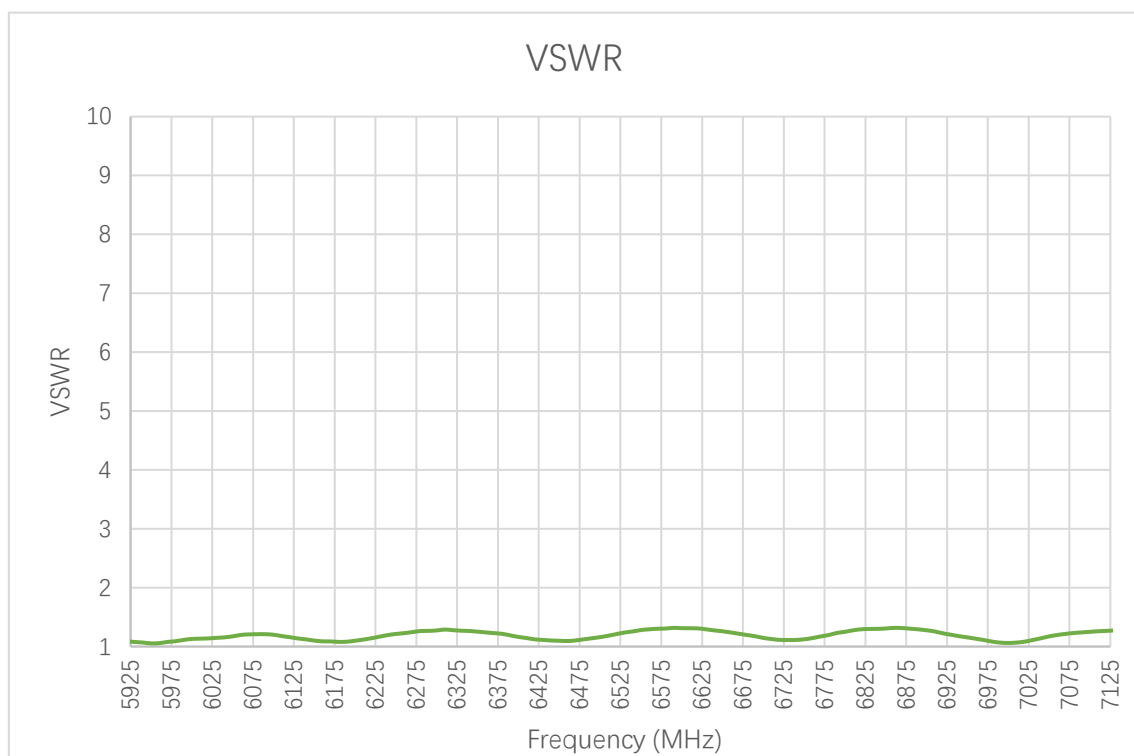
2 Drawing



3 Detailed Performance

3.1. S-Parameter Test

3.1.1. VSWR

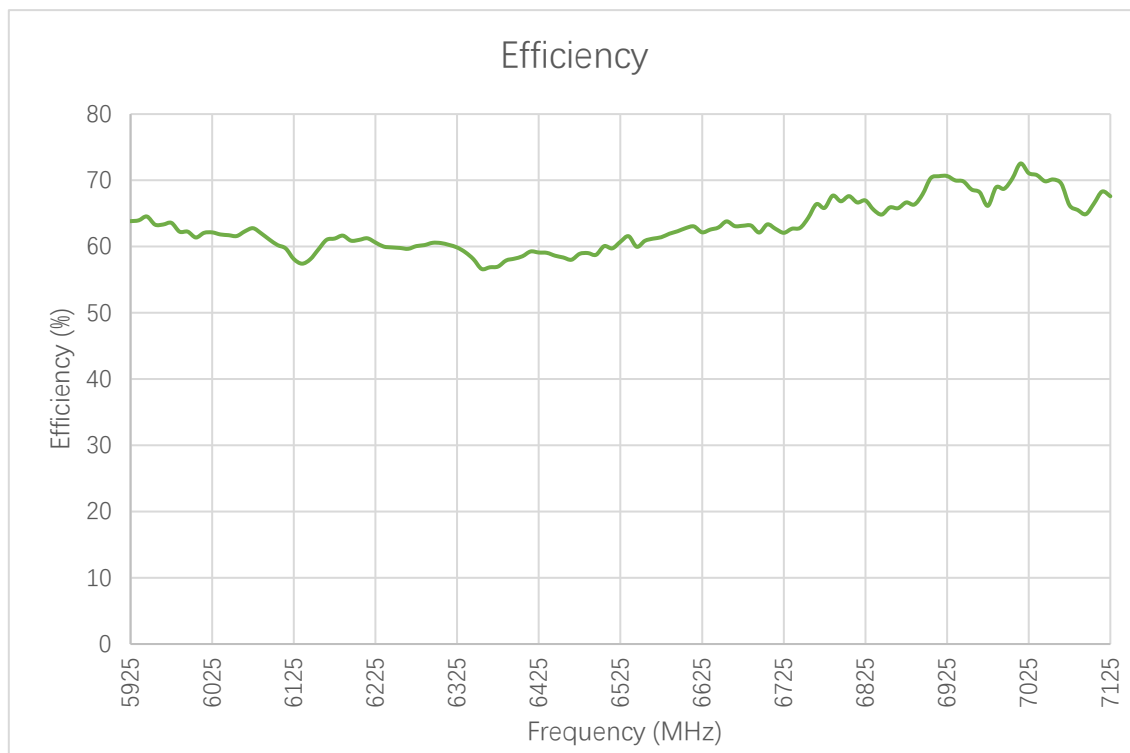


VSWR

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
VSWR	-	-	-	-	-	-	1.1	1.3	1.1	1.3

3.2. Radiation Performance Test

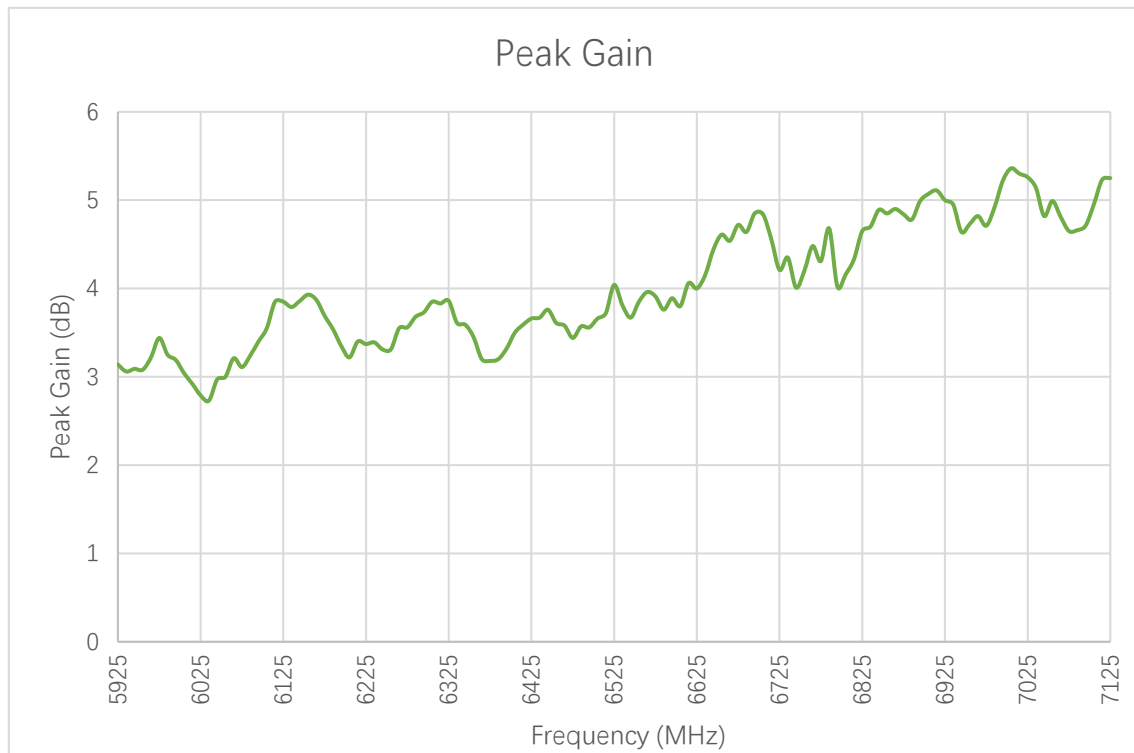
3.2.1. Efficiency



Efficiency (%)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Efficiency (%)	-	-	-	-	-	-	63.8	59.9	62.1	67.6

3.2.2. Peak Gain

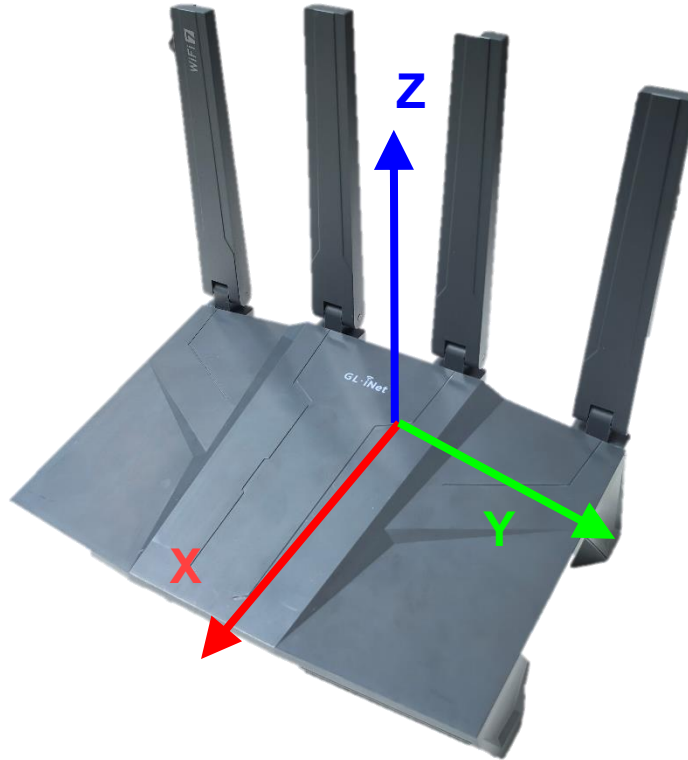


Peak Gain (dBi)

Frequency (MHz)	2400	2450	2500	5150	5500	5850	5925	6325	6725	7125
Peak Gain (dBi)	-	-	-	-	-	-	3.1	3.9	4.2	5.3

3.2.3. 2D Radiation Pattern

- Test Condition: Assembled in test device
- Test Chamber: FS-G-1

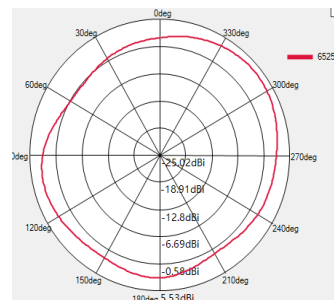
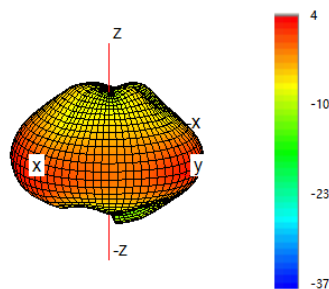
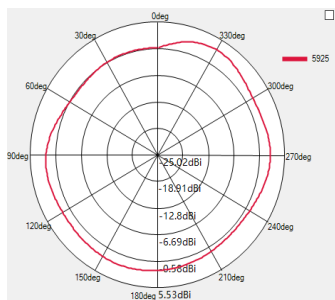
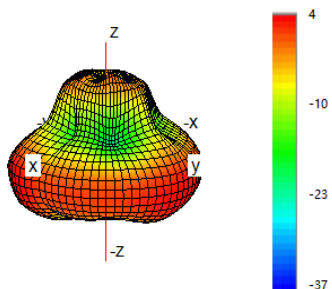


5925MHz

H

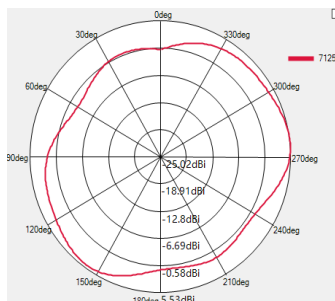
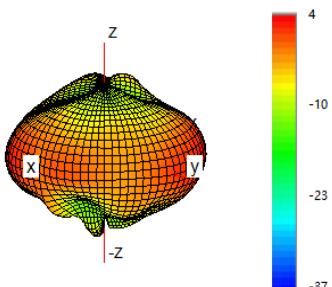
6525MHz

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7125MHz

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Contact Us

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Or our local offices. For more information, please visit:

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Revision History

Version	Date	Author	Note
-	2025-05-07	Mordecai LIU/ Shea LI/ Aria CHU	Creation of the document
1.0	2025-05-07	Mordecai LIU/ Shea LI/ Aria CHU	First official release



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