

Antenna Specification

FCC Regulatory Certification
Project Name : 4361216

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1. Document Information

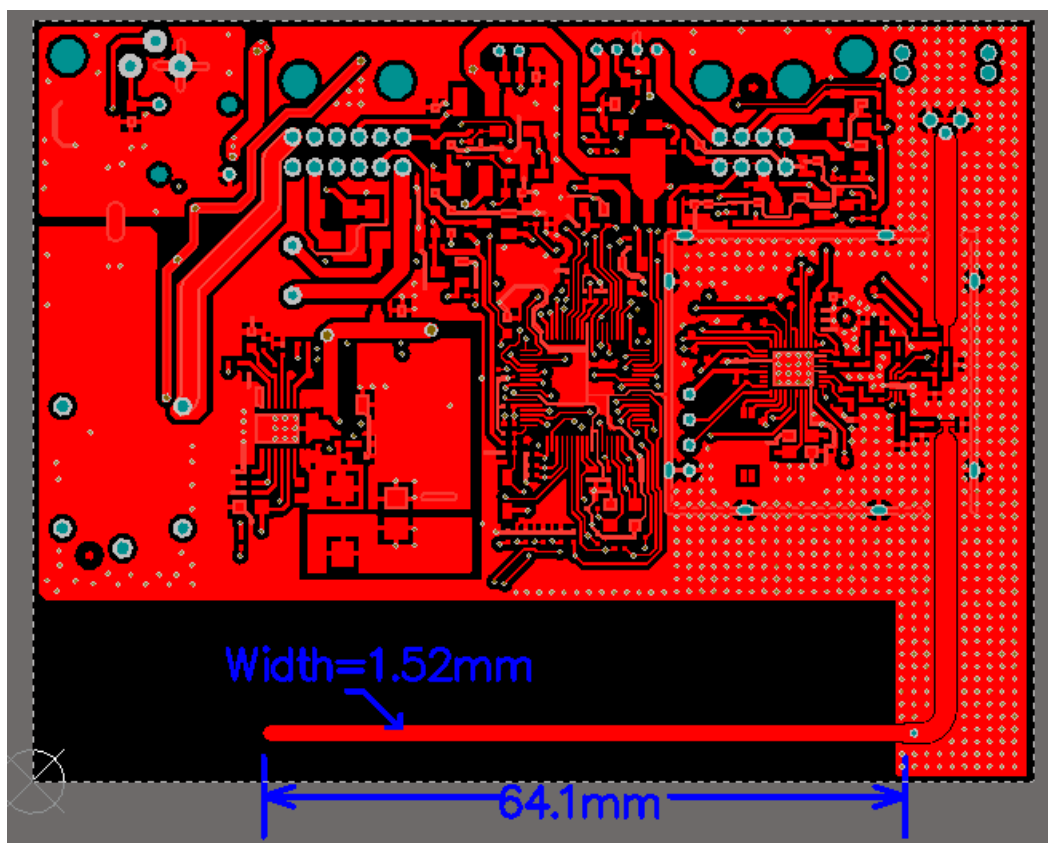
- **Project Name:** 4361216
- **Model:** AR01
- **Antenna Type:** PCB Trace Antenna
- **Purpose:** This document describes the antenna specification and radiation characteristics for FCC certification of the device.

2. General Antenna Specifications

Item	Specification
Antenna Type	PCB Trace Antenna
Operating Frequency Range	902 ~ 928 MHz
Center Frequency	913.6 MHz
Peak Gain (Max)	-2.28 dBi
Measurement Planes	Horizontal Plane / Vertical Plane 50 Ω
Reference Impedance	Nutek Corporation
Manufacturer	No.167, Lane 235, Bauchiau Rd., Xindian District, New Taipei City

3. Antenna Dimensions

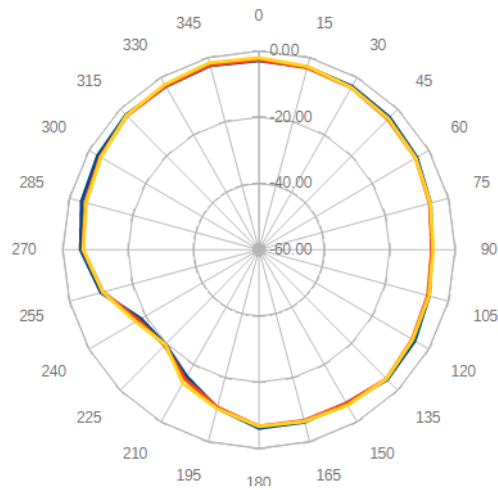
The antenna is integrated on the PCB as shown in the assembly drawing below.
All dimensions are in millimeters.



4. Radiation Performance – Horizontal Plane

Test Frequencies: 904 MHz / 913.6 MHz / 923.6 MHz

Frequency (MHz)	Max Gain (dBi)	Min Gain (dBi)	Avg Gain (dBi)
904	-2.41	-19.50	-6.58
913.6	-2.28	-19.17	-6.83
923.6	-2.57	-19.52	-6.56



5. Radiation Performance – Vertical Plane

Test Frequencies: 904 MHz / 913.6 MHz / 923.6 MHz

Frequency (MHz)	Max Gain (dBi)	Min Gain (dBi)	Avg Gain (dBi)
904	-9.78	-28.9	-19.92
913.6	-9.53	-28.84	-20.03
923.6	-9.11	-28.48	-19.75

