

Antenna Specification

FCC Regulatory Certification
Project Name : 4361217

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1. Document Information

- **Project Name:** 4361217
- **Model:** AR02

2. Antenna Supplier Information

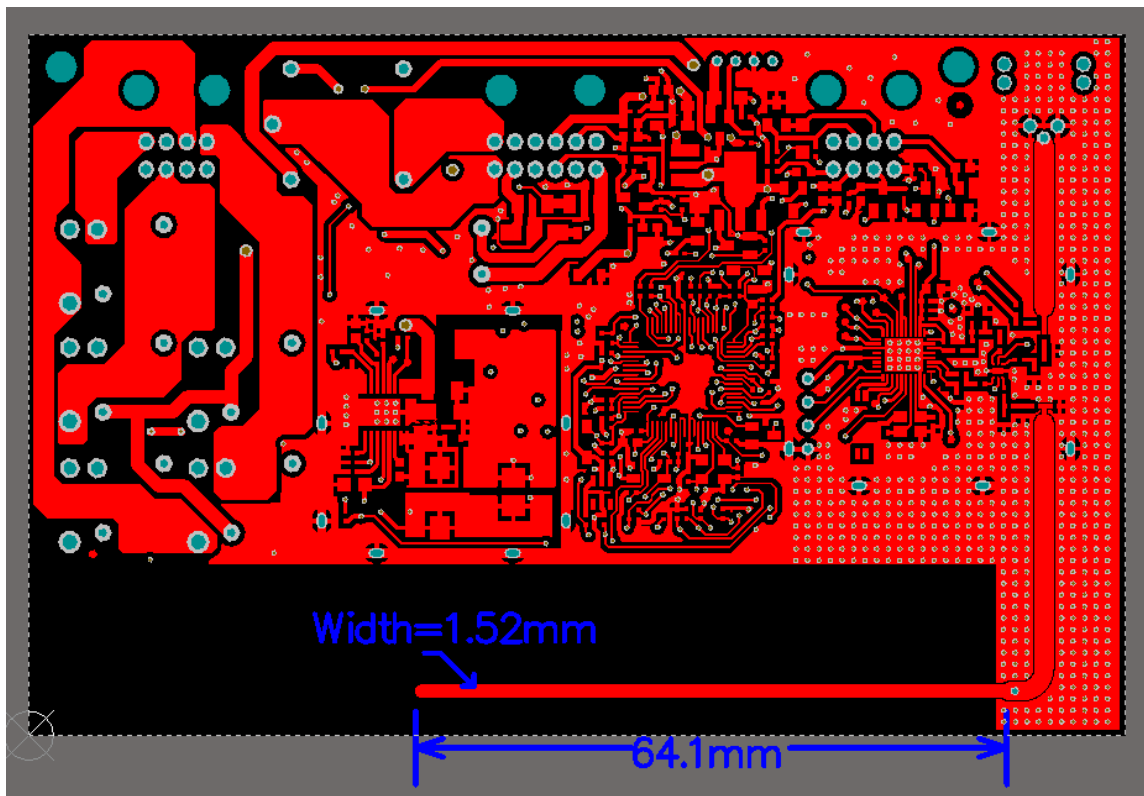
- **Supplier Name:** Nutek Corporation
- **Supplier Address:** No.167, Lane 235, Bauchiau Rd., Xindian District, New Taipei City

3. Antenna Information

- **Antenna Type:** PCB Trace Antenna
- **Operating Frequency Range:** 902 ~ 928 MHz
- **Center Frequency :** 913.6 MHz
- **Peak Gain (Max) :** -1.45 dBi
- **Reference Impedance:** 50 Ohm

4. Antenna Dimensions

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



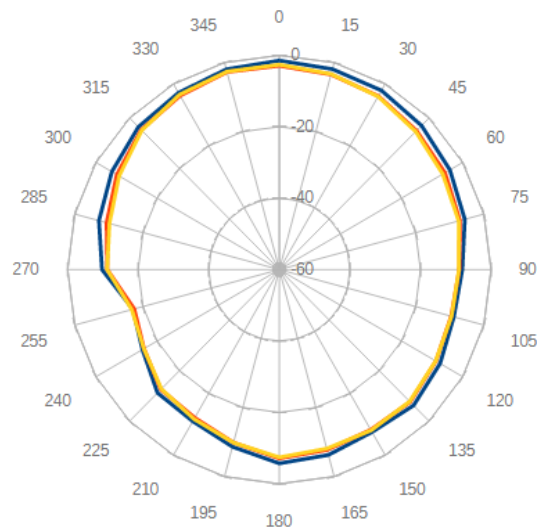
5. Purpose

This document describes the antenna specification and radiation characteristics of the AP18 transmitter for FCC certification.

6. 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	-1.45	-17.04	-6.72
913.6	-2.71	-17.43	-8.00
923.6	-2.59	-16.7	-8.09



7. 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	-12.86	-32.35	-21.44
913.6	-11.86	-34.68	-21.44
923.6	-11.27	-36.32	-21.16

