# Long Range Indoor Antenna Kit; 860-930MHz; 3dBi; 295mm Datasheet

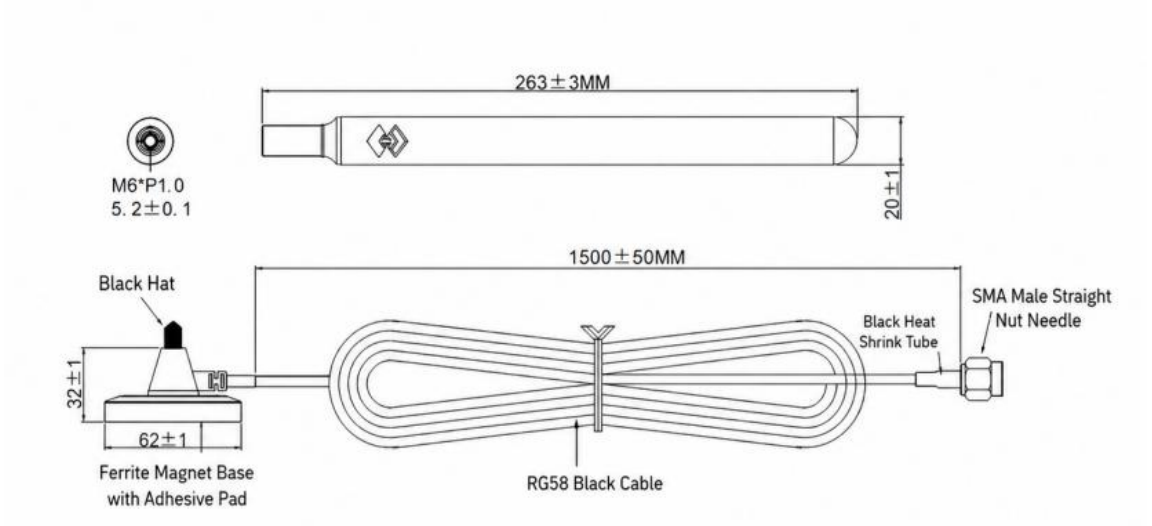
Version: V1.1

Dates: 2026-6-5

# 1. Electrical and Mechanical Properties

| | |
|---|---|
| **Electrical Specifications** | |
| **Frequency Range** | **915±10MHz** |
| **VSWR** | **≤2.0** |
| **Gain** | **≤2.87 dBi** |
| **Radiation** | **OMNI** |
| **Polarization** | **LINEAR** |
| **Input Impedance** | **50 Ω** |
| **Mechanical Specifications** | |
| **Input connector** | **RP.SMA.J** |
| **Antenna material** | **Rubber** |
| **Working Temperature** | **- 30 ℃ ~ + 80 ℃** |
| **Working Humidity** | **40 ~ 85%** |

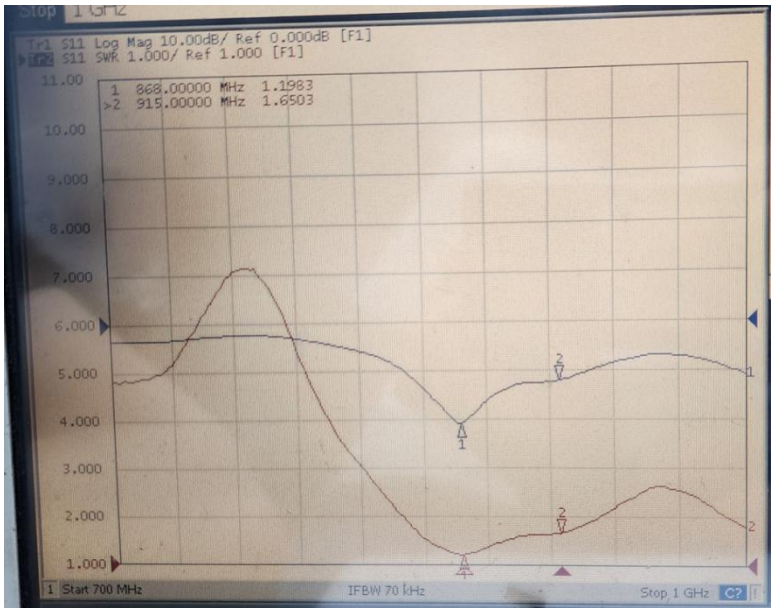
# 2. Antenna Structure Dimensions Diagram






seeed studio Seeed Technology Co., Ltd. All rights reserved. www.seeedstudio.com

# 3. Passive Test data



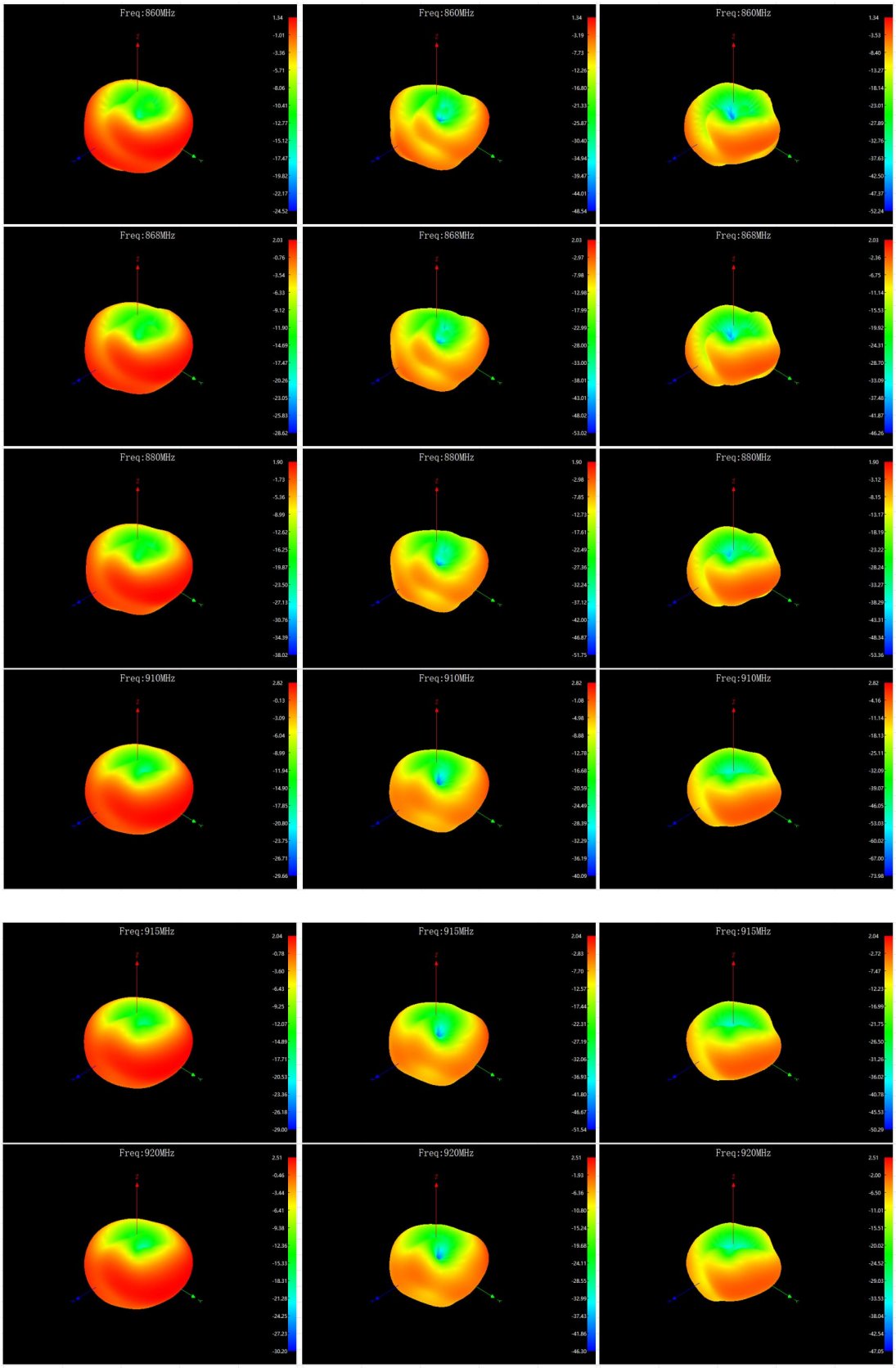

# 4. Gain Efficiency Test data

| Frequency/MHz | Efficiency / % | Max Gain/dBi |
|---|---|---|
| 860 | 66.99 | 1.34 |
| 861 | 66.37 | 1.38 |
| 862 | 65.46 | 1.54 |
| 863 | 65.31 | 1.71 |
| 864 | 66.37 | 1.9 |
| 865 | 68.87 | 2.13 |
| 866 | 68.87 | 1.94 |
| 867 | 69.66 | 1.99 |
| 868 | 70.15 | 2.03 |
| 869 | 69.66 | 1.98 |
| 870 | 67.76 | 1.83 |
| 871 | 68.08 | 1.88 |
| 872 | 67.3 | 1.86 |
| 873 | 66.37 | 1.83 |
| 874 | 66.07 | 1.85 |
| 875 | 66.68 | 1.96 |
| 876 | 66.53 | 1.95 |
| 877 | 67.3 | 1.99 |
| 878 | 68.08 | 2.02 |
| 879 | 68.39 | 2.01 |
| 880 | 67.61 | 1.9 |
| 910 | 74.13 | 2.82 |
| 911 | 75.68 | 2.87 |
| 912 | 76.38 | 2.85 |
| 913 | 75.68 | 2.7 |
| 914 | 73.28 | 2.42 |
| 915 | 69.66 | 2.04 |
| 916 | 68.55 | 1.99 |
| 917 | 67.76 | 1.99 |
| 918 | 67.76 | 2.08 |
| 919 | 69.02 | 2.26 |
| 920 | 70.96 | 2.51 |



seeed studio Seeed Technology Co., Ltd. All rights reserved. www.seeedstudio.com

# 5. Directional Test data






seeed studio
Seeed Technology Co., Ltd. All rights reserved. www.seeedstudio.com

# 6. Reliability Test Report

| Test Items | | Test Methods | Requirement | Results |
|---|---|---|---|---|
| **C1** | V.S.W.R. | Design network analyzer parameters for testing | Comply with the specification of the object under test | pass |
| **M1** | Antenna gain | Design the antenna anechoic chamber parameters for testing | Comply with the specification of the object under test | pass |
| **M2** | Vibration vibration | GB/T2423.48-2008; Amplitude: 0.03 inch (1.5 mm); Freq: 20 to 80 to 20 Hz; 3 directions; 2 hours for each direction amplitude | 1. No Visual Damage<br>2. Frequency Tol. ≤5% | pass |
| **M6** | Random Drop Fall | GB/T2423.8-1995 Single: Height: 1.0 Meter; 3 directions; 1 time for each direction | 1. No parts separated, fracture<br>2. Frequency Tol. ≤5% | pass |
| **E3** | Dimension | Inspection of dimensions, color, material, package, and surface process. | Directive DUT specification | pass |
| **E4** | Temperature and Humidity Chamber | GB/T 2423.3-2006 Temp: 80°C / 12 H; -40°C / 12 H RH: ≥ 90%; Time: 24 H | After 2 Hours Recovery<br>1. No Visual Damage<br>2. Frequency Tol. ≤5% | pass |
| **E5** | Thermal Shock | GB/T 2423.22-2008 -40 °C (30 minutes) to + 80°C (30 minutes); Cycles: 24 | After 2 Hours Recovery<br>1. No visual damage.<br>2. Frequency Tol. ≤5% | pass |
| **R1** | Aging test Aging | GB /T 2423.2-2008 Temp: 80°C; Time: 24 hours | After 2 hours recovery<br>1. No visual damage.<br>2. Frequency Tol. ≤5% | pass |
| **M1** | RoHS | With reference to IEC 62321:2008 with flow chart | Directive RoHS 2015/863/EU | pass |


seeed studio Seeed Technology Co., Ltd. All rights reserved. www.seeedstudio.com