鸿陆

专注RFID核心技术

A0920

9dBi circular polarization

UHF RFID antenna

User’s manual

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Welcome to become a user of Hopeland Technologies' RFID radio frequency identification products! I am very glad that you have chosen this A0920 9dBi circular polarization antenna, and hope that our products will bring convenience to your work.

Menu

1. Technical specifications

1.1 Product features

A0920 is a high-performance UHF antenna with working frequency bands including 865M ~ 928MHz. With the characteristics of low standing wave rate(VSWR) and excellent circular polarization, this antenna is a general-purpose antenna suitable for medium/long-distance indoor and outdoor environments.

1.2 Main functions and technical performance

1.2.1 Electrical performance

✧☐ Frequency band: 865MHz ~ 928MHz,

✧☐ Far field gain: 9dBi

✧☐ E-lobe width: 60°

✧☐ H-lobe width: 60°

✧☐ Input power: 10W (maximum)

✧☐ Standing wave: VSWR ≤1.

✧☐ Polarization method: circular polarization

✧☐ Interface: TNC external thread female head, cable outlet from the bottom of the shell

1.2.2 Mechanical properties

✧☐ Antenna size: 276mm×276mm×41mm

✧☐ Weight: 1.23kg (without bracket)

✧☐ Material: engineering plastic PC, aluminum alloy

✧☐ Color: milky white

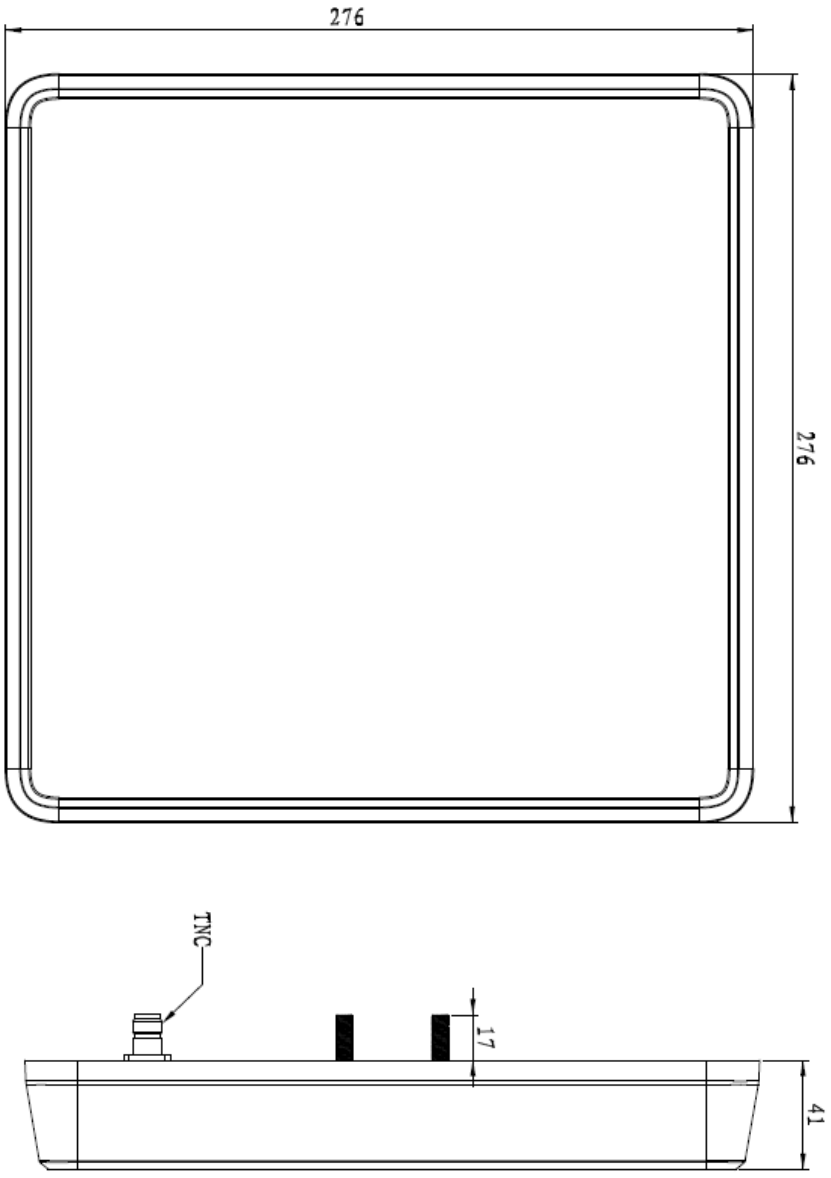
✧☐ Degree of protection: IP65/66

✧☐ Working temperature: -20℃ ~ +70℃

✧☐ Storage temperature: -40℃ ~ +80℃

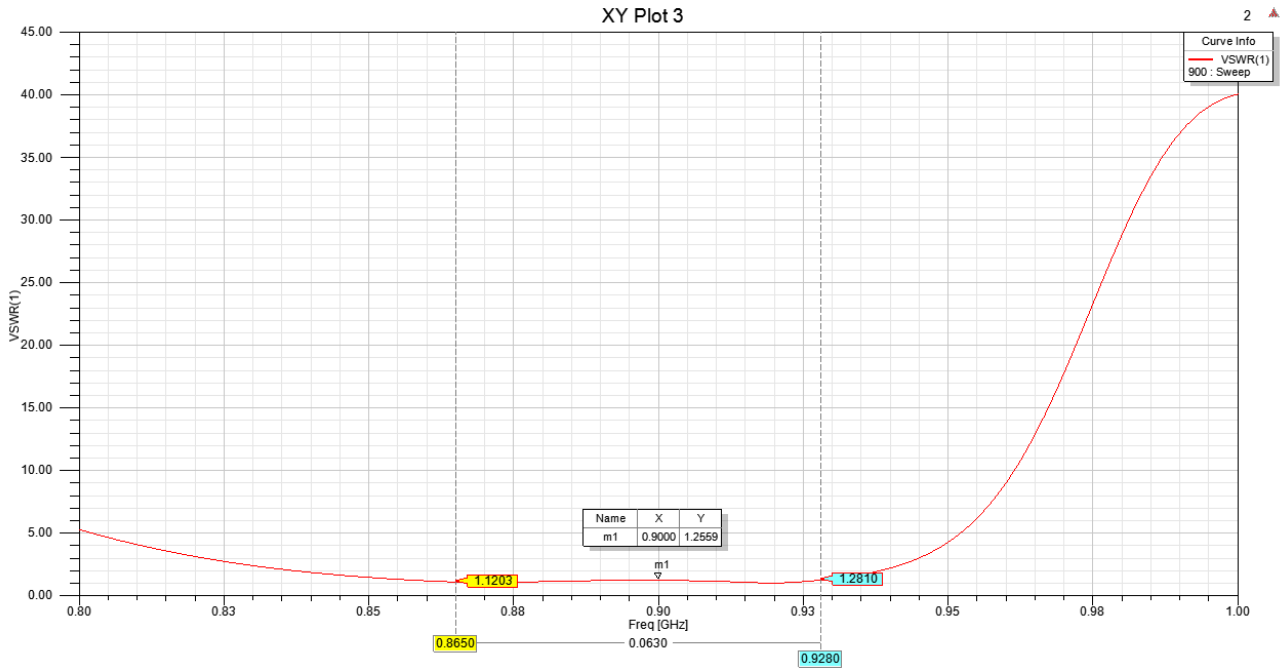
2. Schematic diagram

Structure /appearance/dimension

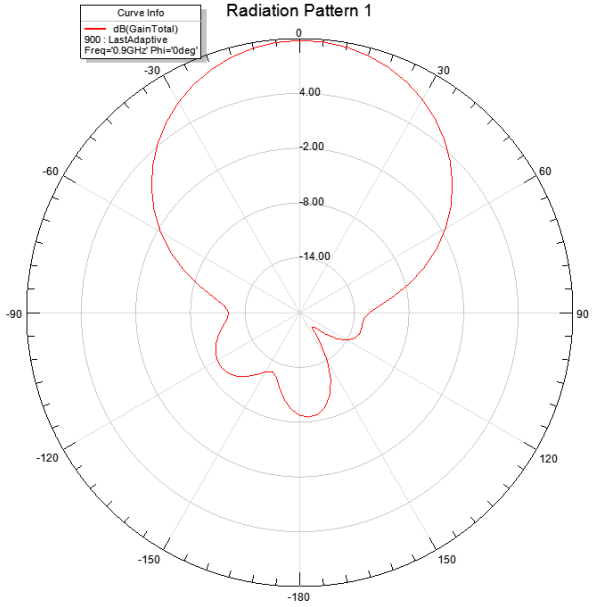


3. Performance

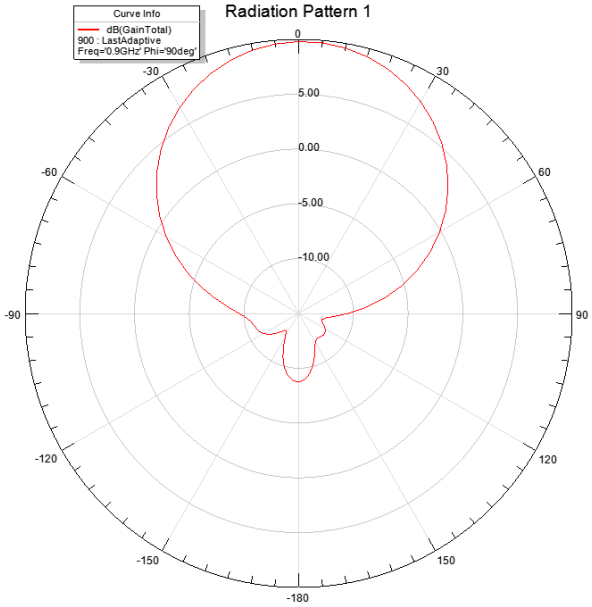
3.1 Standing wave ratio(VSWR)



3.2 Radiation pattern



Vertical



Horizontal

4、Installation

The antenna base board is equipped with a mounting screw, which can be installed on a steel frame structure or pillar through its own bracket or a user-made bracket, and it is connected to the RFID reader through a coaxial cable. After installation, the down tilt angle of the antenna can be adjusted according to the actual situation. The antenna bracket is an optional part, and customers can choose according to needs.

5. Common faults

5.1 Daily maintenance

Daily maintenance of A0920 circular polarization antenna during use:

☆ Check if the RF connector is tightened

☆ Check whether the screws fixing the antenna are loose

☆ Check whether the surface of the antenna is polluted

5.2 Analysis and solution of common faults

☆The antenna cannot read the tag

■Check if the label is damaged

■Check whether the label placement position is within the effective reading and writing range of the antenna

■For problems that users cannot solve by themselves, please contact after-sales service.

5.3 Storage requirements

The long-term storage of A0920 circular polarization antenna should meet the following conditions:

☆ Ambient temperature: -40℃ ~ +85℃

☆ Relative humidity: 5% RH ~ 90%RH

6、After sale services

To the customers

Our aim is to continuously update our products. The characteristics, composition and design of this manual will be different from the actual equipment provided. We will provide amendments in a timely manner. If you cannot provide the supplementary page in time, or if you have other problems that cannot be handled, please consult your local distributor or obtain our after-sales service through your sales manager.

Email: inquiry@hopelandrfid.com

Tel: +86 755 33218493

Warranty description:

1. Starting from the date of purchase, the product will enjoy warranty service within one year without disassembly and repair in normal operation.

2. The following conditions are not within the scope of free maintenance:

☐ The terminal is damaged due to abuse or man-made

☐ Damage to the terminal caused by excessive vibration during transportation

3. When the user needs repairs, please fill in the warranty card carefully and send it back to your seller company.