# TX900-PB-2323 Product Data Sheet

**915MHz RFID Panel Directional Antenna**

**SMA Male Connector**

成都亿佰特电子科技有限公司

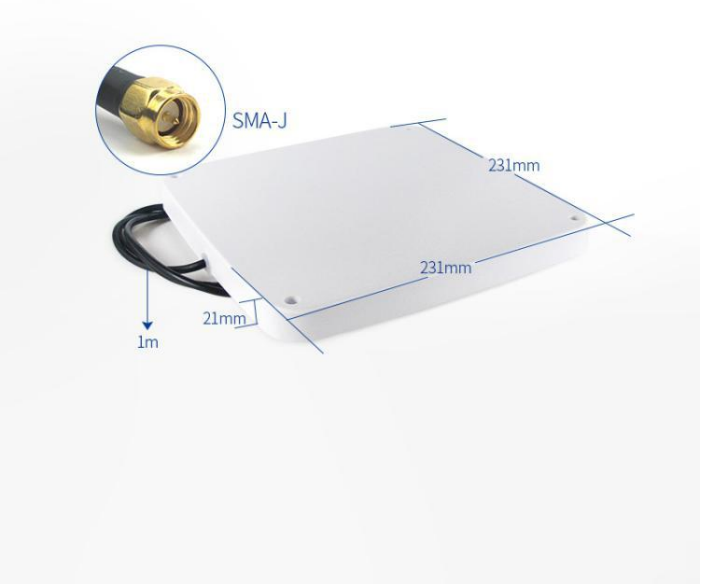
Chengdu Ebyte Electronic Technology Co.,Ltd.

# I. Product Introduction

TX900-PB-2323 is a 915MHz RFID panel directional antenna. Size of the antenna is 231mm*231mm*21mm. With a SMA Male connector(SMA inner thread and inner needle), it can be applied to such devices with frequency of 915MHz as wireless module, network devices.

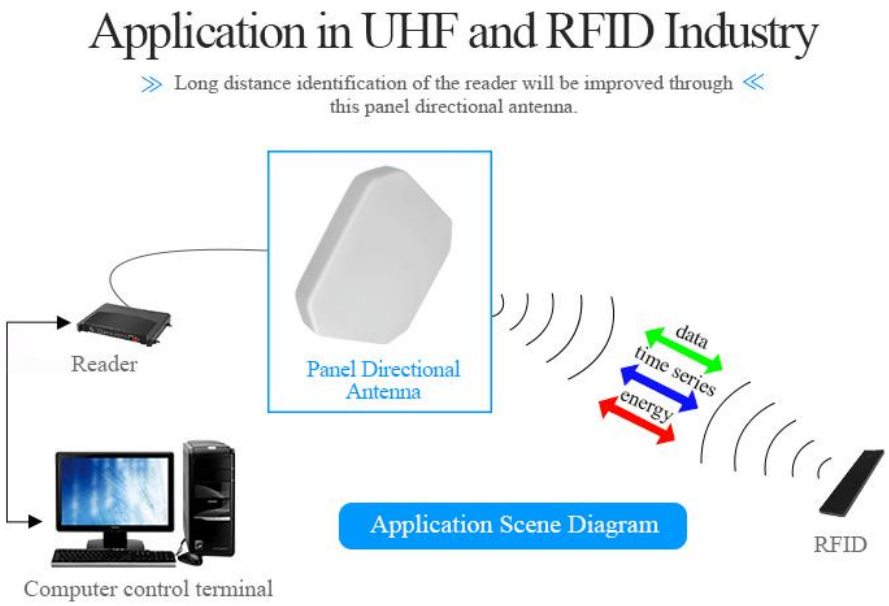
# II. Specification and Parameters

| Physical Parameters | |
|---|---|
| Frequency | 915MHz |
| Bandwidth | 850MHz-960MHz |
| Gain | 10dBi |
| SWR | ≤1.3 |
| Polarization | Circular |
| Radiation Direction | Directional |
| Input Impedance | 50Ω |
| Power Capacity | 50W |
| HPBW | Hor:65 Ver:65 |
| Axial Ratio | ≤2 |
| Front-Back Ratio | ≥15 |
| Lightning Protection | DC Ground |
| **Other Parameters** | |
| Size | 231mm*231mm*21mm |
| Total Weight | 400g |
| Material | F4B |
| Feeder Length | 1m |
| Mounting Hole Size | 4*φ4-198*198mm |
| Connector | SMA Male |
| Working Temperature | -40℃～+85℃ |
| Storage Temperature | -40℃～+85℃ |

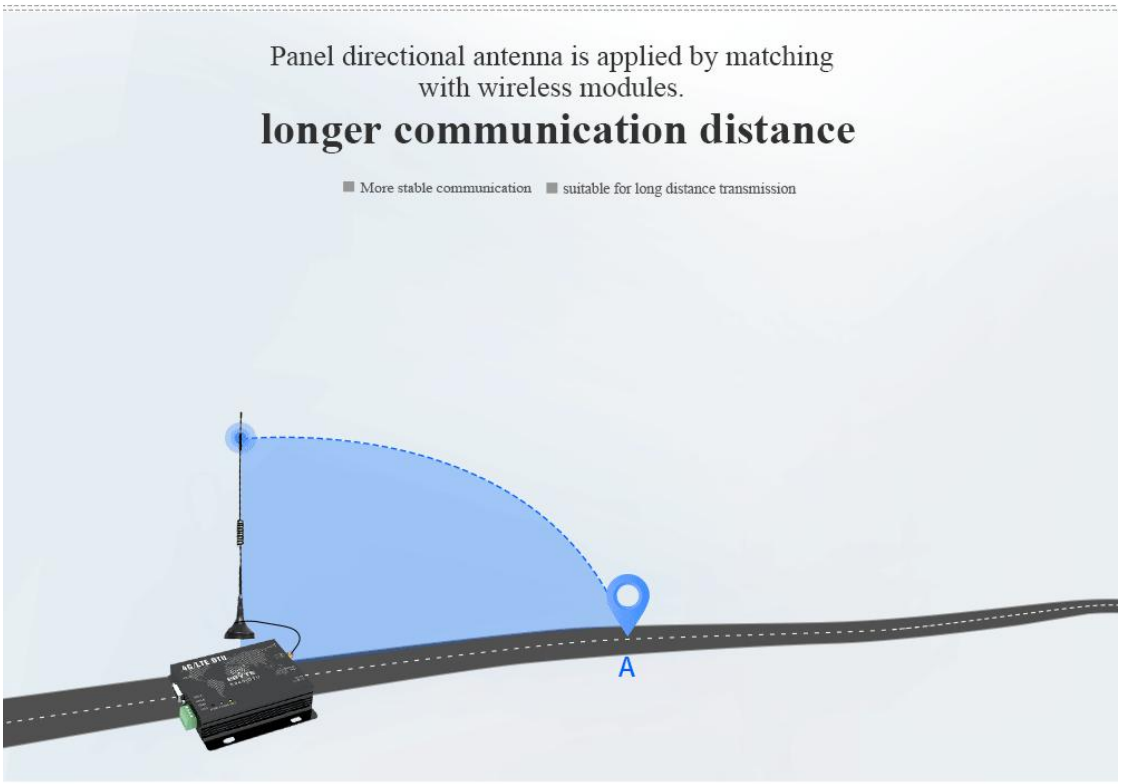


# III.Characteristics

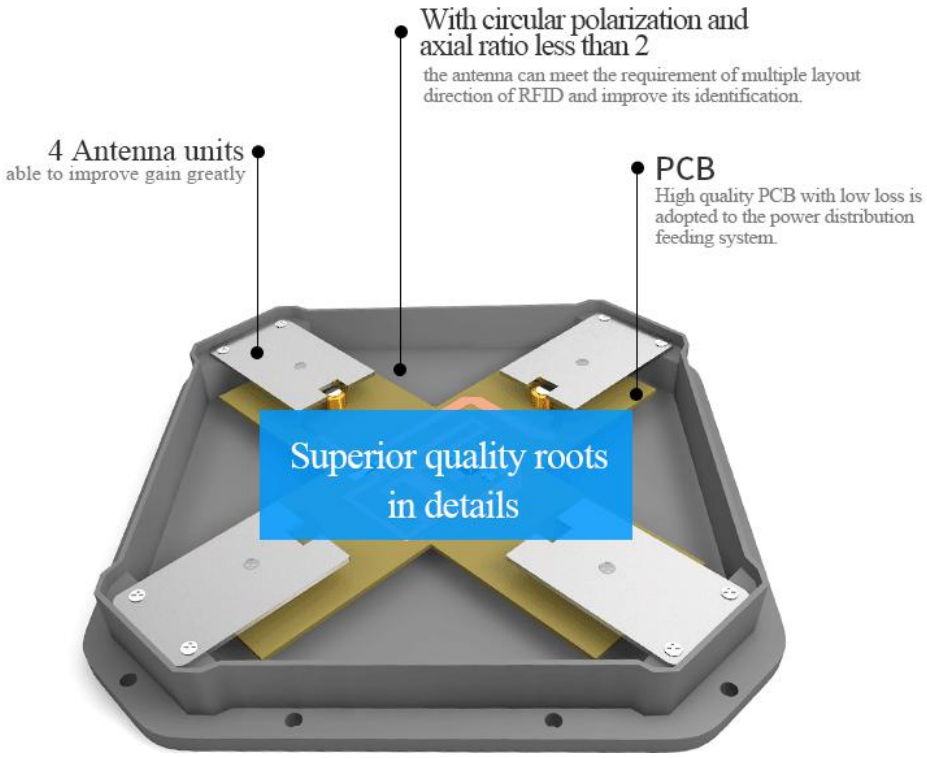
1. Improve the distance recognition of RFID reader



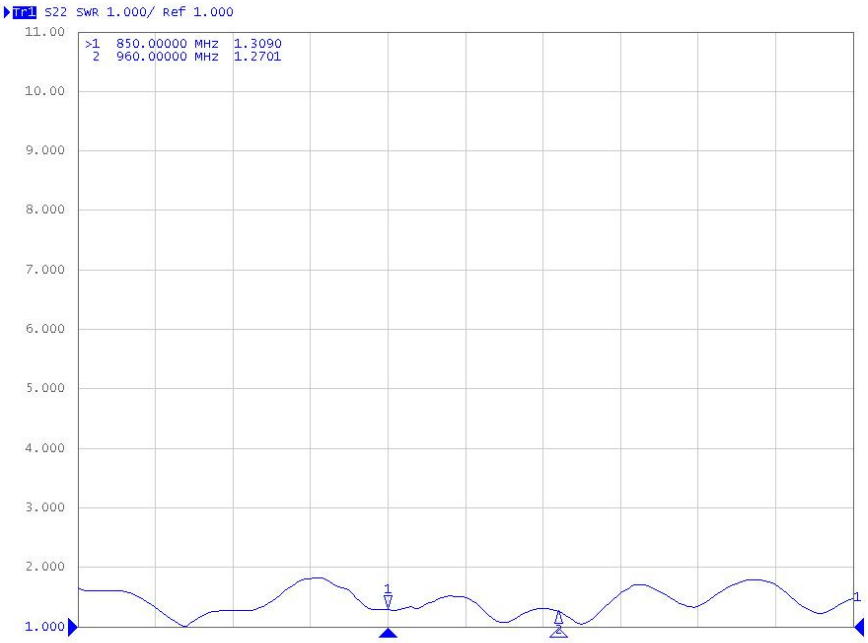
2. Longer communication distance and more stable signal

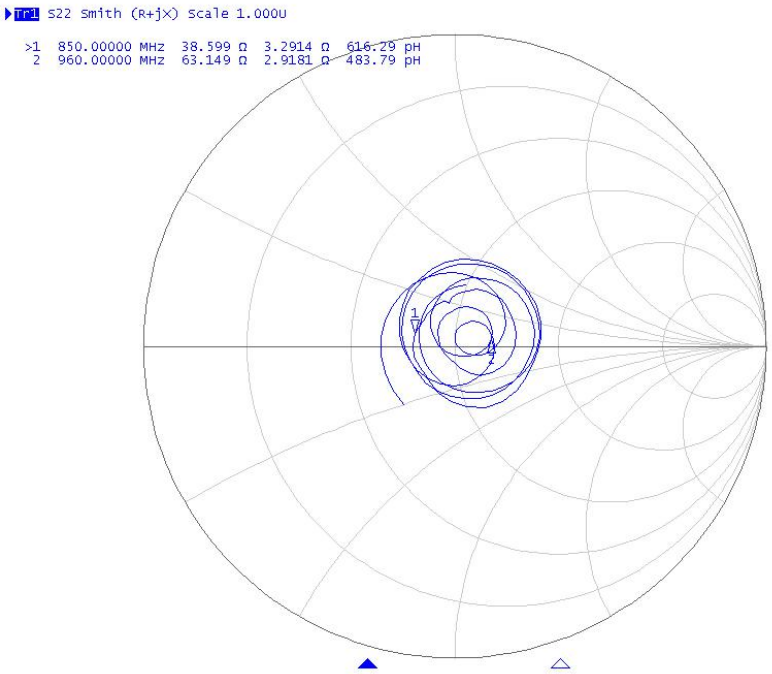



3. Four groups of antenna units greatly improve the gain



# IV. Testing



# V. FAQ

- Antenna frequency shall be matched with that of the wireless devices, or the communication will be affected;
- Diffraction performance will be better with lower communication frequency and longer wave;
- Communication distance will be shorter if there is any straight-line barrier;
- Please be noted of the antenna radiation direction. Incorrect direction by installation will result in short communication distance;
- As radio wave may be absorbed by the ground, result will be affected if tested close to ground. It is suggested to test at a higher place;
- As radio wave can be highly absorbed by the ocean water, result will be affected if tested close to the sea;
- Signal will be seriously weakened if the antenna is put close to metal or inside metal shell;
- Lower impedance matching of antenna and communication devices will result in bad communication.

# About us

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Thank you for using Ebyte products! Please contact us with any questions or suggestions: info@cdebyte.com

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