TX900-PB-1313(NK) Product Data Sheet

915MHz RFID Panel Directional Antenna

N Female Connector

成都亿佰特电子科技有限公司

Chengdu Ebyte Electronic Technology Co.,Ltd.

I. Product Introduction

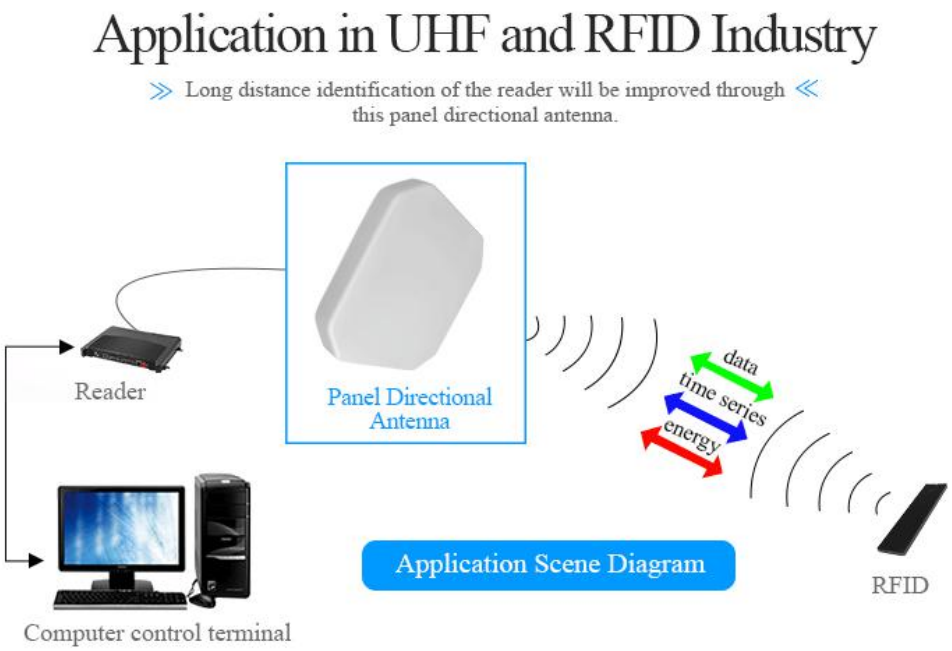
TX900-PB-1313(NK) is a 915MHz RFID panel directional antenna. Size of the antenna is 132mm*132mm*18mm. With a N female connector, it can be applied to such devices with frequency of 915MHz as wireless module and network devices.

II. Specification and Parameters

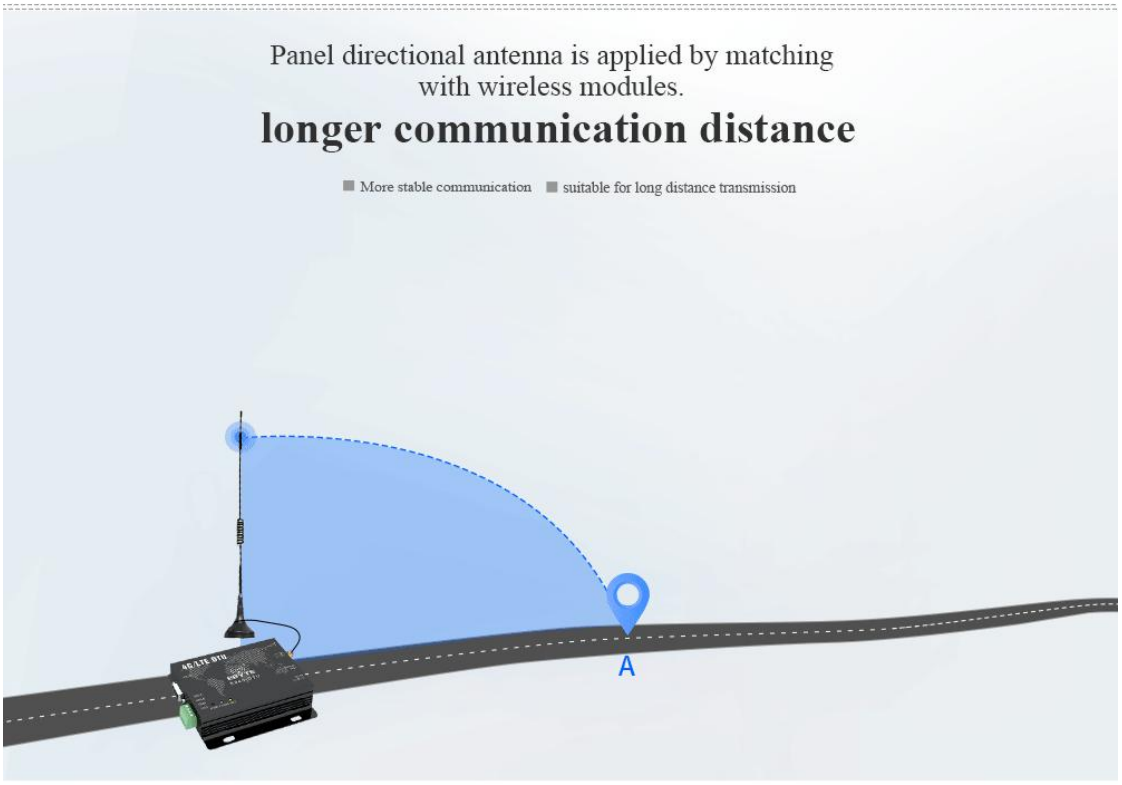
Physical Parameters	
Frequency	915MHz
Bandwidth	850MHz-960MHz
Gain	8dBi
SWR	≤1.3
Polarization	Circular
Radiation Direction	Directional
Input Impedance	50Ω
Power Capacity	50W
HPBW	Hor:100 Ver:100
Axial Ratio	≤2
Front-Back Ratio	≥8
Lightning Protection	DC Ground
Other Parameters	
Size	132mm*132mm*18mm
Total Weight	350g
Radome Material	PC
Material	Aluminum
IP Grade	IP65
Connector	N Female
Working Temperature	-40℃～+85℃
Storage Temperature	-40℃～+85℃

III.Characteristics

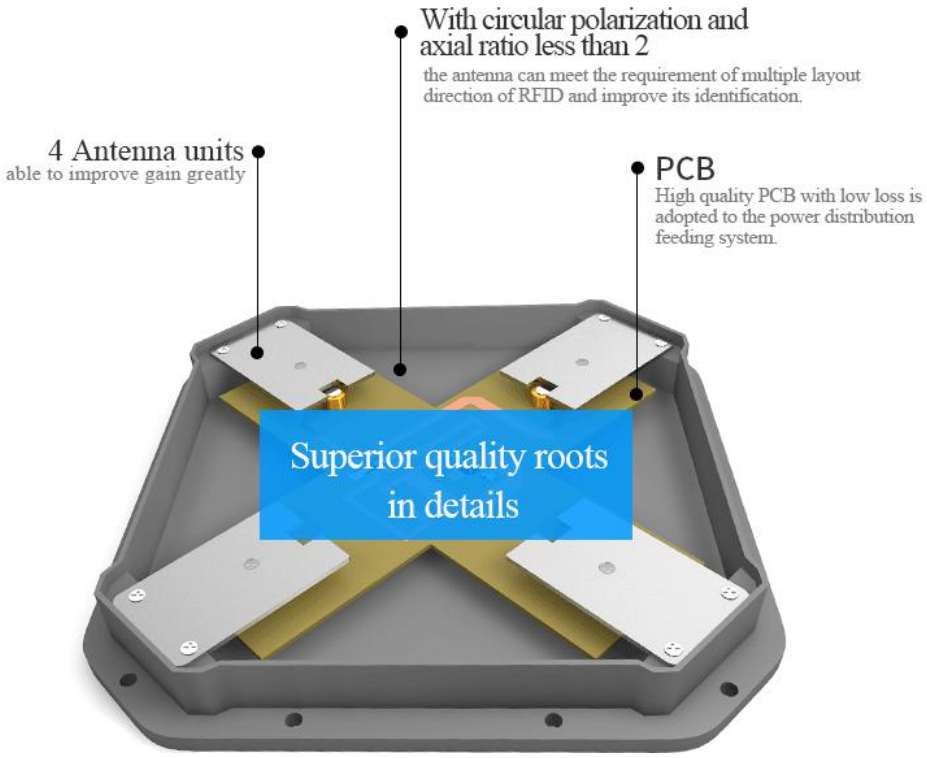
1. Improve the distance recognition of RFID reader



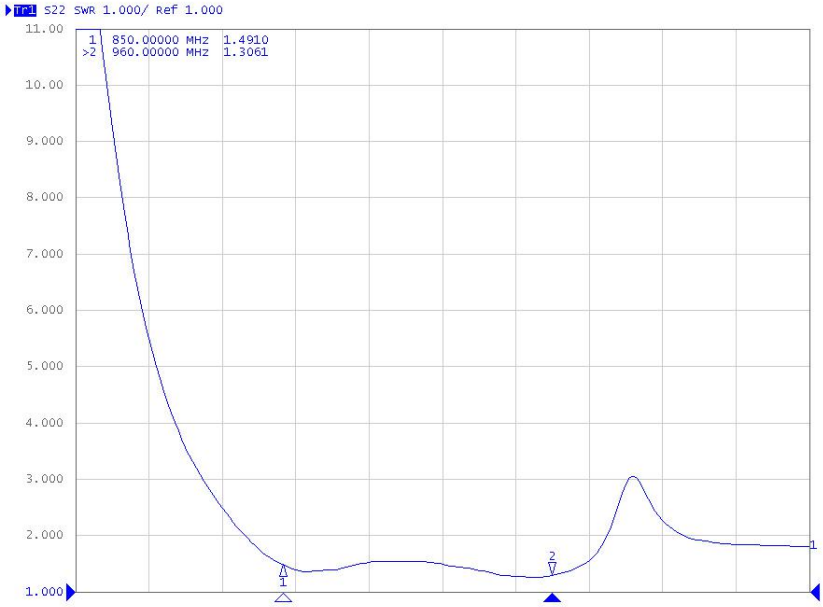
2. Longer communication distance and more stable signal

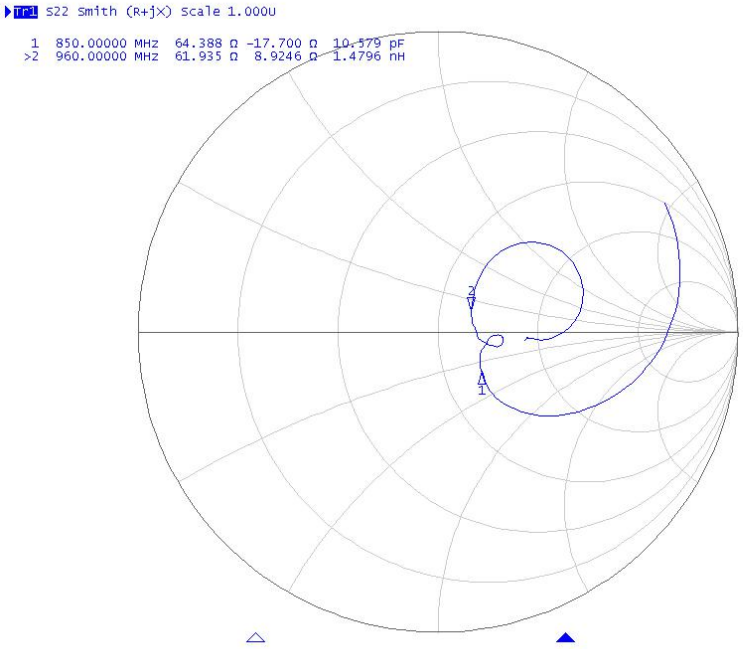


3. Four groups of antenna units greatly improve the gain



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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