

Antenna specification

1、Antenna introduction

The TX antenna is directly used on the PCB.

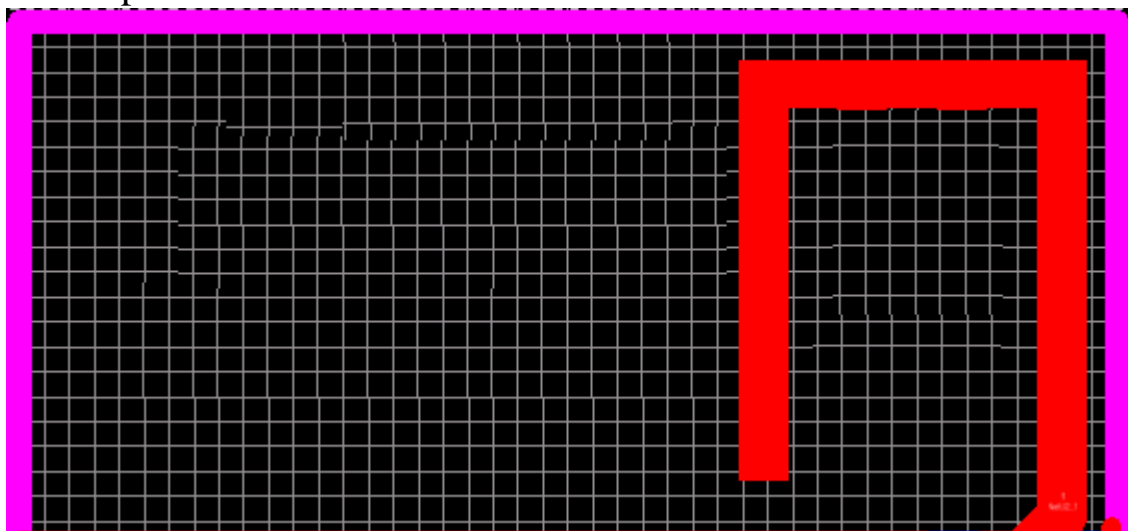
Manufacturer: Shenzhen xlw technolog9y

Address: A436, Huafeng Internet Creative Park, No.107 Gong He Industrial Road, Xixiang, Bao'An, Shenzhen, 518102, China

	Antenna module on the system board
Frequenc Range	433.92
Ant. Port Input Pwr. (dBm)	0 (Typ. BT class 2 output power)
Tot. Rad. Pwr. (dBm)	-1.2 (Input pwr – loss pwr)
Peak EIRP(dBm)	-2
Directivity (dBi)	1 (all direction antenna)
Efficiency (dB)	4.2 %
Gain (dBi)	0.7 (Peak Gain XZ-plane)
Maximum Power (dBm)	-1 (XY-plane)
Minimum Power (dBm)	-4(XY-plane)
Avg. Power (dBm)	-3(XY-plane)
Input Impendence(ohm)	50
Polarization Type	V ertical & Horizontal
V .S .W .R	< 1.4

All the technical data and information contained herein are subject to change without prior notice

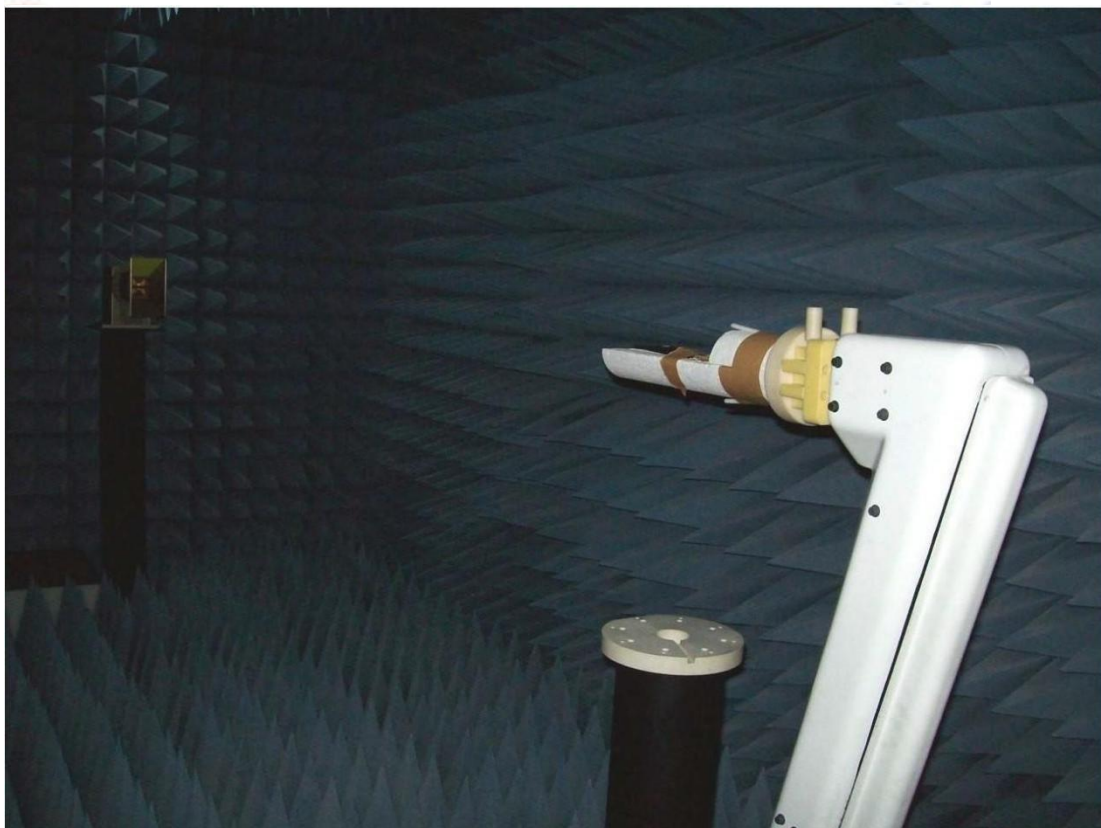
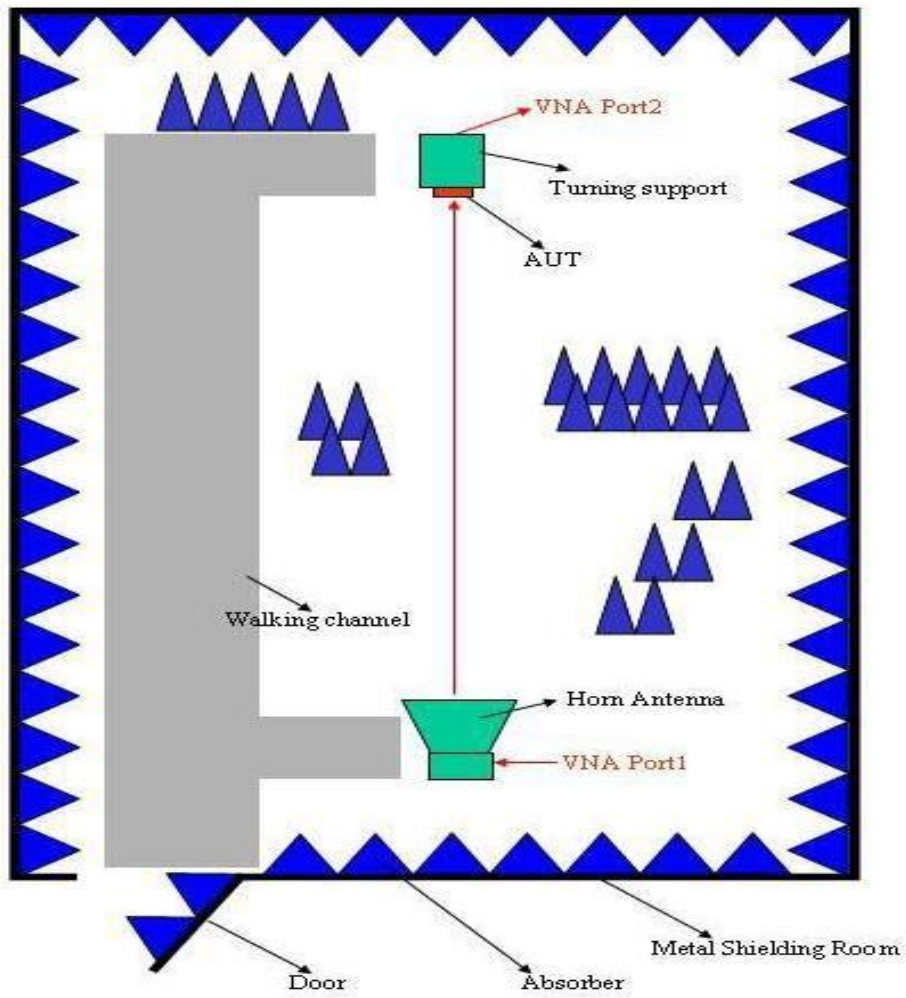
2、Antenna shape



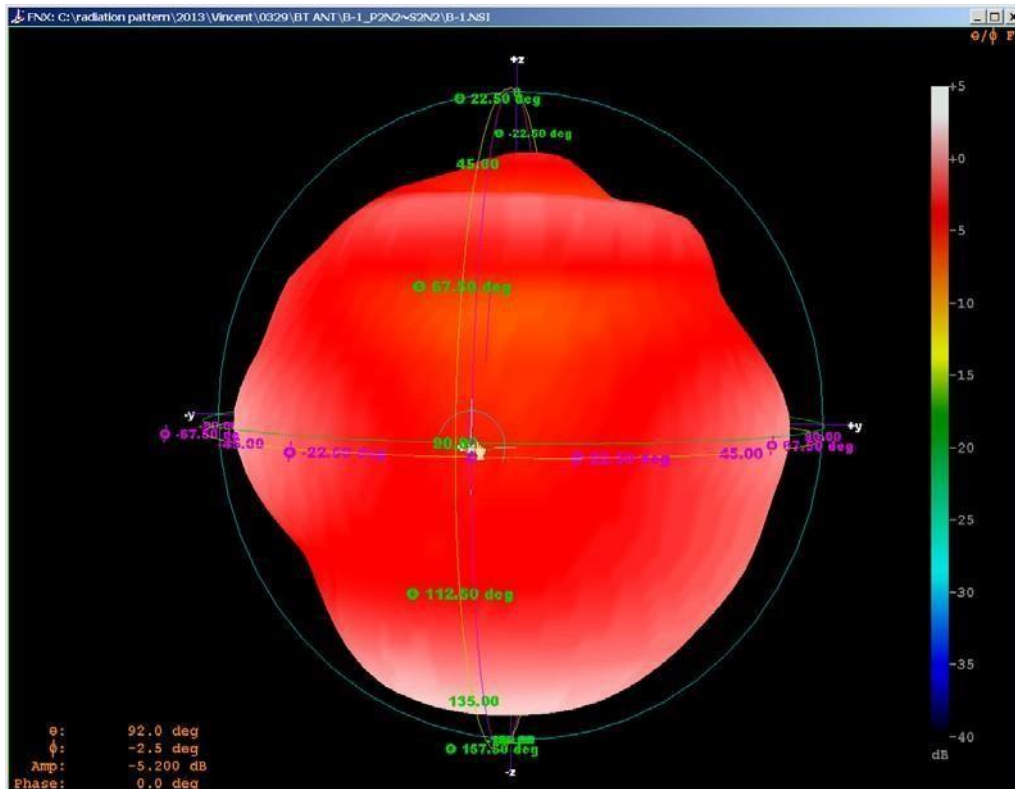
3、Antenna Gain

Unit in dBi @433.92MHz	XY-plane		XZ-plane		YZ-plane		Efficiency
	Peak	Avg.	Peak	Avg.	Peak	Avg.	
Module Board	-1.35	-0.48	0.7	-3.83	-1.11	-2.99	4.2 %

The Environment of Antenna Radiation Pattern



3D radiation pattern diagram



XY-plane	XZ-plane	YZ-plane
Far-field Power Distribution(H+V) on X-Y Plane	Far-field Power Distribution(H+V) on X-Z Plane	Far-field Power Distribution(H+V) on Y-Z Plane
Plot Peak Gain(H+V)= -1.38dBi; Plot Avg Gain(H+V)= -0.48dBi@433.92MHz	Plot Peak Gain(H+V)= 0.7dBi; Plot Avg Gain(H+V)= -3.83dBi@433.92MHz	Plot Peak Gain(H+V)= -1.11dBi; Plot Avg Gain(H+V)= -2.99dBi@433.92MHz

