

APPROVAL SHEET

Customer Name	Shanghai Notion information technology co., LTD
Notion material Name	PB0132 Antenna
Notion material Number	
Supplier Name	Kunshan Yunzhihong electronic technology co. LTD
Supplier material Name	
Supplier material Number	
Conform to The ROHS Standard	accord with
Delivery Date	

Supplier contact address telephone fax:

linkman, contacts : XiaoWei contact number: 13419798432

contact address: 3F, Building4,399 JU JIN Road, Zhangpu Town, Kun Shan City, Jiang Su Province

	Engineer	Producer	Character	Check	Approval
Supplier	Weijian Lai	Junwei Hao	Qing Huang	Feng Wen	Xinpu Pan
	ID	Hardware	Purchase	Character	
Notion					

Contents

1	summarize	3
1.1	STATE OF THE ANTENNA	3
2	Antenna test environment.....	4
3	Antenna test results.....	5
3.1	TEST REPORT	5
4	PERFORMANCE PARAMETER	8

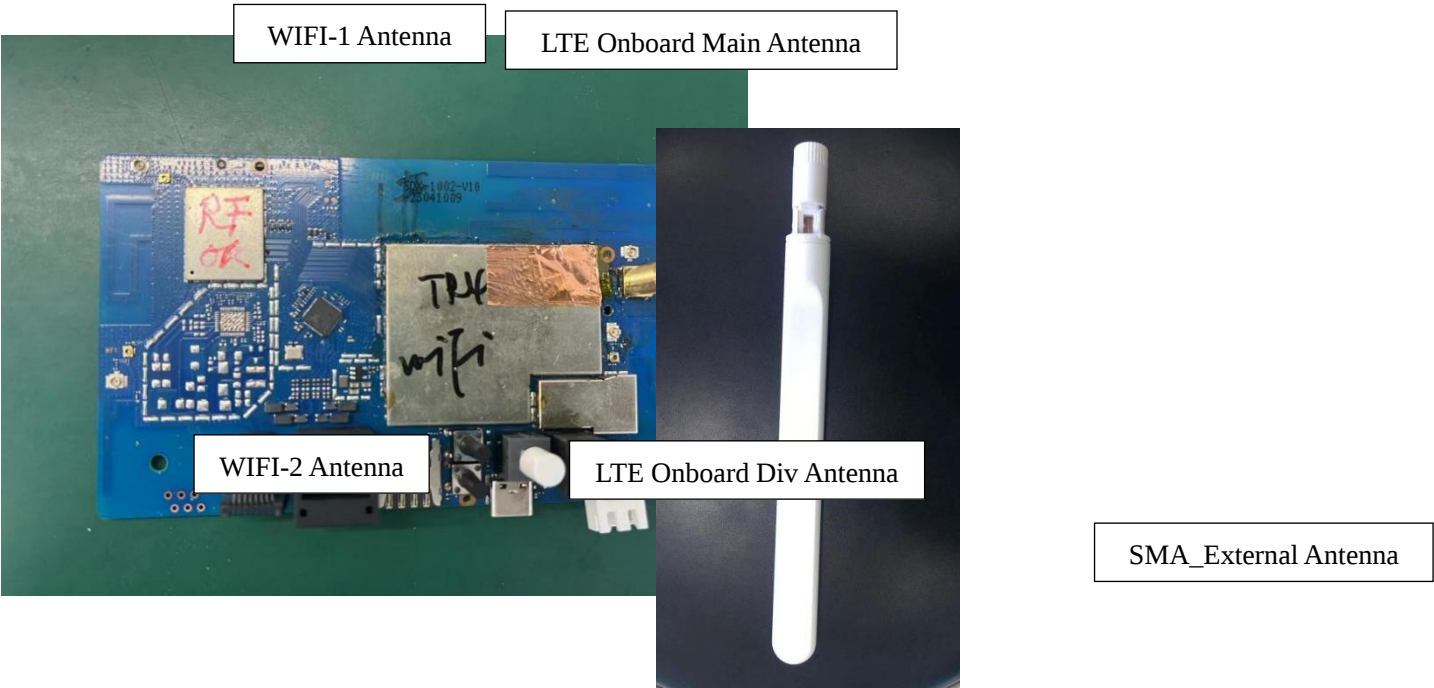
1.summarize

This document is the PB0132 Antenna approval sheet



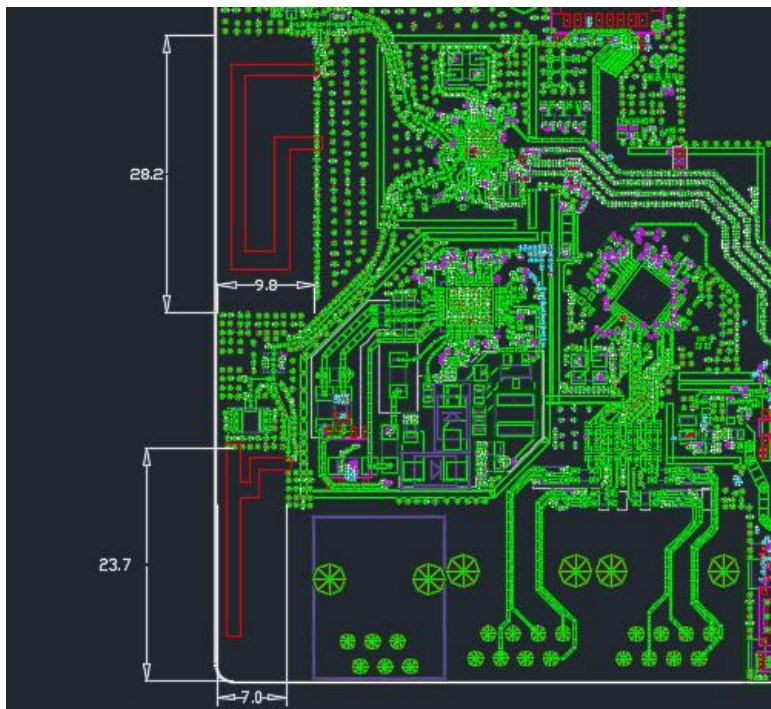
Picture1 Machine photo

1.1 Antenna status (The onboard antenna and SMA external antenna do not work simultaneously)



Picture2Antenna Picture

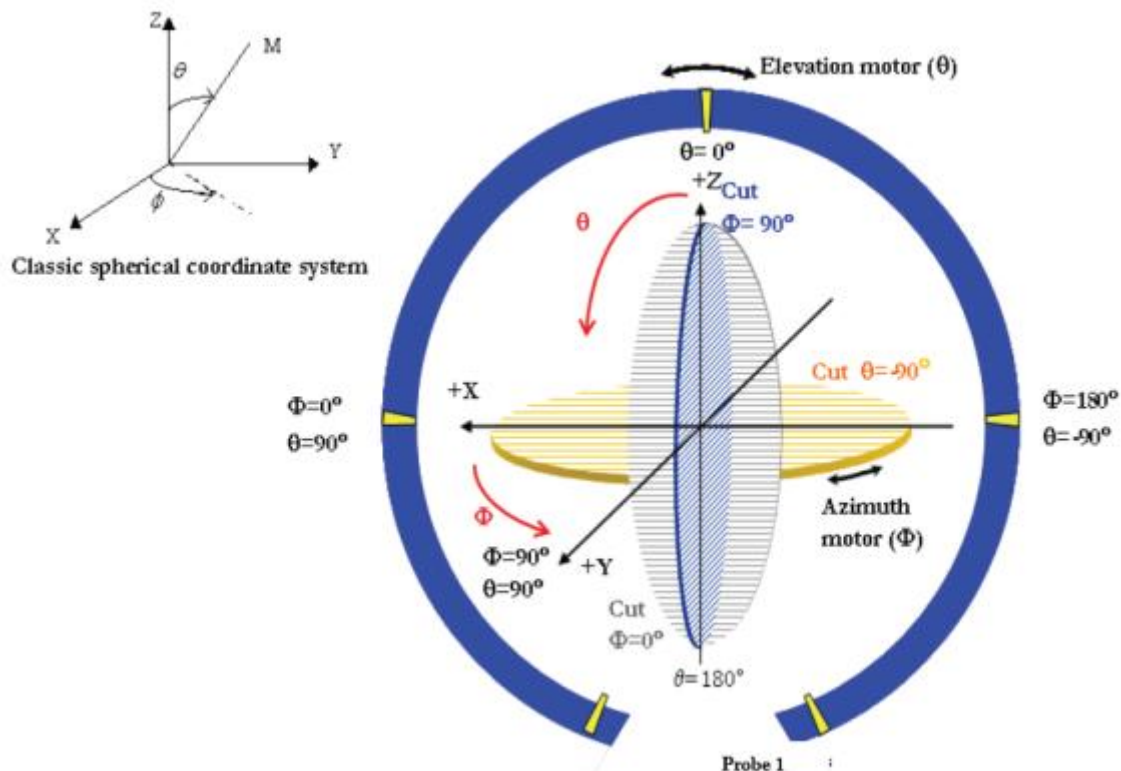
1.2 The WIFI Antenna Size



2. Antenna test environment

The antenna input characteristics were tested using Agilent E5071C vector network analyzer.

The antenna radiation characteristics were tested using the Satimo SG24 3D near-field anechoic chamber. The test coordinate system is shown in figure 3,

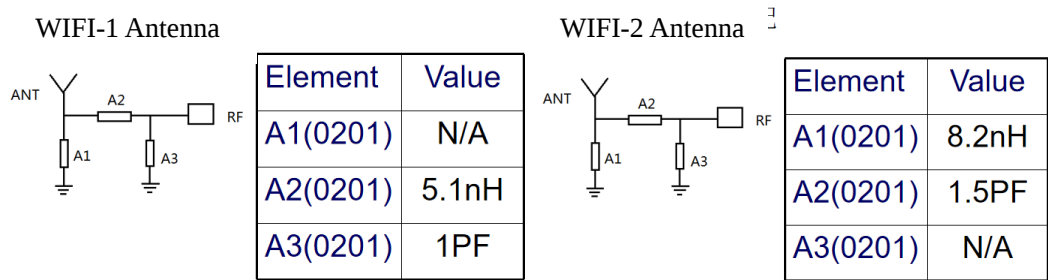


Picture 3 3Dwave Chamber(back view)

3 Test Results

3.1Test Reports

Antenna Matching



WIFI-1 Passive Efficiency & Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	65.63	-1.83	1.83
2410	63.39	-1.98	1.63
2420	62.51	-2.04	1.68
2430	64.84	-1.88	1.82
2440	63.93	-1.94	1.91
2450	68.31	-1.66	2.18
2460	65.94	-1.81	2.05
2470	62.2	-2.06	1.67
2480	69.1	-1.6	1.95
2490	68.1	-1.67	1.61
2500	72.5	-1.4	1.5

WIFI-2 Passive Efficiency & Gain

Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)
2400	36.55	-4.37	1.26
2410	37.71	-4.24	1.19
2420	38.68	-4.13	1.59
2430	39.57	-4.03	2.29
2440	36.33	-4.4	1.78
2450	35.14	-4.54	1.6
2460	38.15	-4.18	2.03
2470	37.27	-4.29	1.57
2480	36.58	-4.37	1.03
2490	38.17	-4.18	0.8
2500	36.23	-4.41	0.71

WIFI Antenna Active Test Data

Test Result	Wifi 2G TRP
	1
Frequency (MHz)	2412
TRP(dBm)	15.77

Wifi 2G TIS
1
2412
-76.95

Test Result	Wifi 2G TRP
	6
Frequency (MHz)	2437
TRP(dBm)	15.72

Wifi 2G TIS
6
2437
-79.27

Test Result	Wifi 2G TRP
	11
Frequency (MHz)	2462
TRP(dBm)	15.98

Wifi 2G TIS
11
2462
-78.52

4 Performance parameter

Electrical parameters	
Customer model	CPE Antenna
Frequency range	700-2700 MHz/2.4-2.5GHz
Characteristic impedance	50 ohm
Polarization mode	Linear polarization
Directional	Omnidirectional
Antenna form	Horizontal/Vertical