

Antenna Design for P1012三合一天线 V1.0

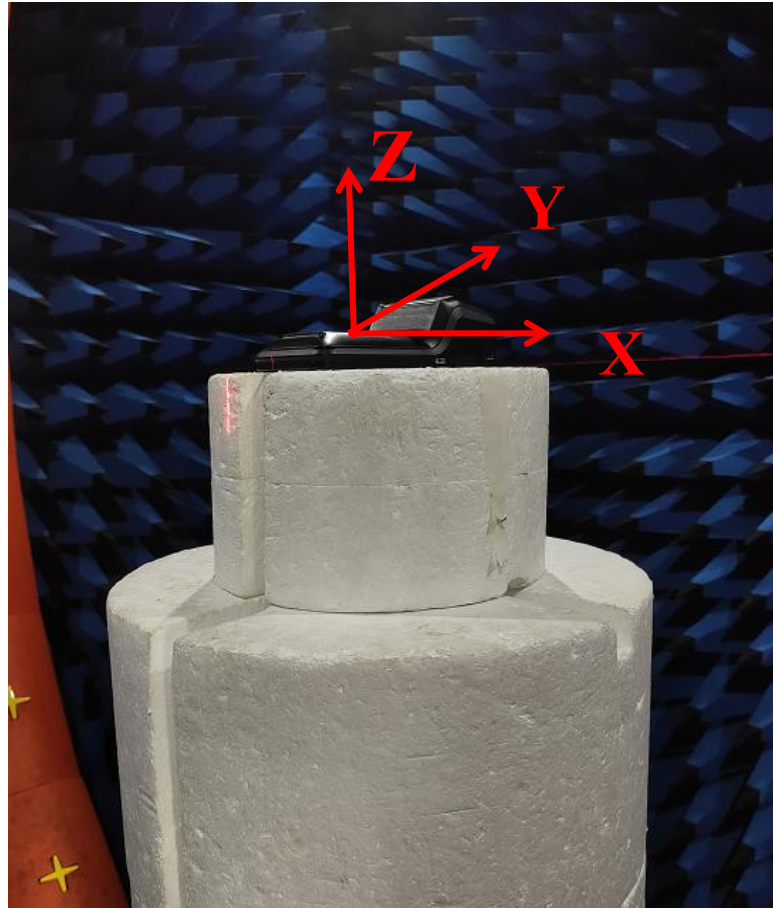
Document Number	DZZ-20220829
1st Released Date	29/08/2022
Author	Bo Bian
Review By	Huiping Feng

Specification

Rough description	三合一 ant
Item	Initial Specification
Impedance	50Ω
Frequency range	1575.42MHz&2400~2500MHz&5100~5900MHz
Antenna Type	pifa
Peak Gain	1575.42MHz 2dBi; 2400~2500MHz 3dbi 5100~5900MHz 3dbi
Radiation	Omni
Polarization	Linear
Connector Type	NONE
Cable Length	NONE

1. Test enviroment

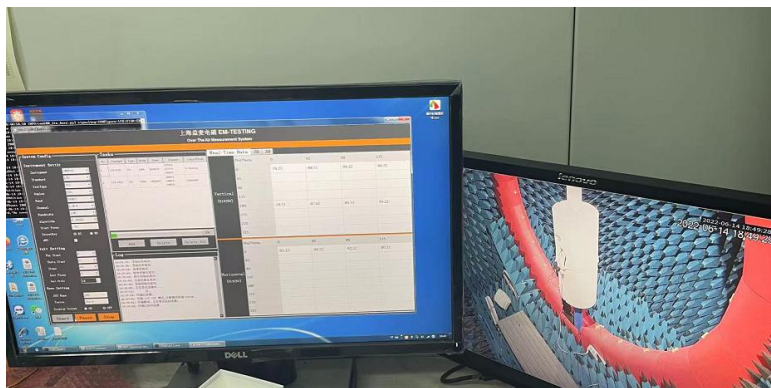
Satimo 24探头



CMW500



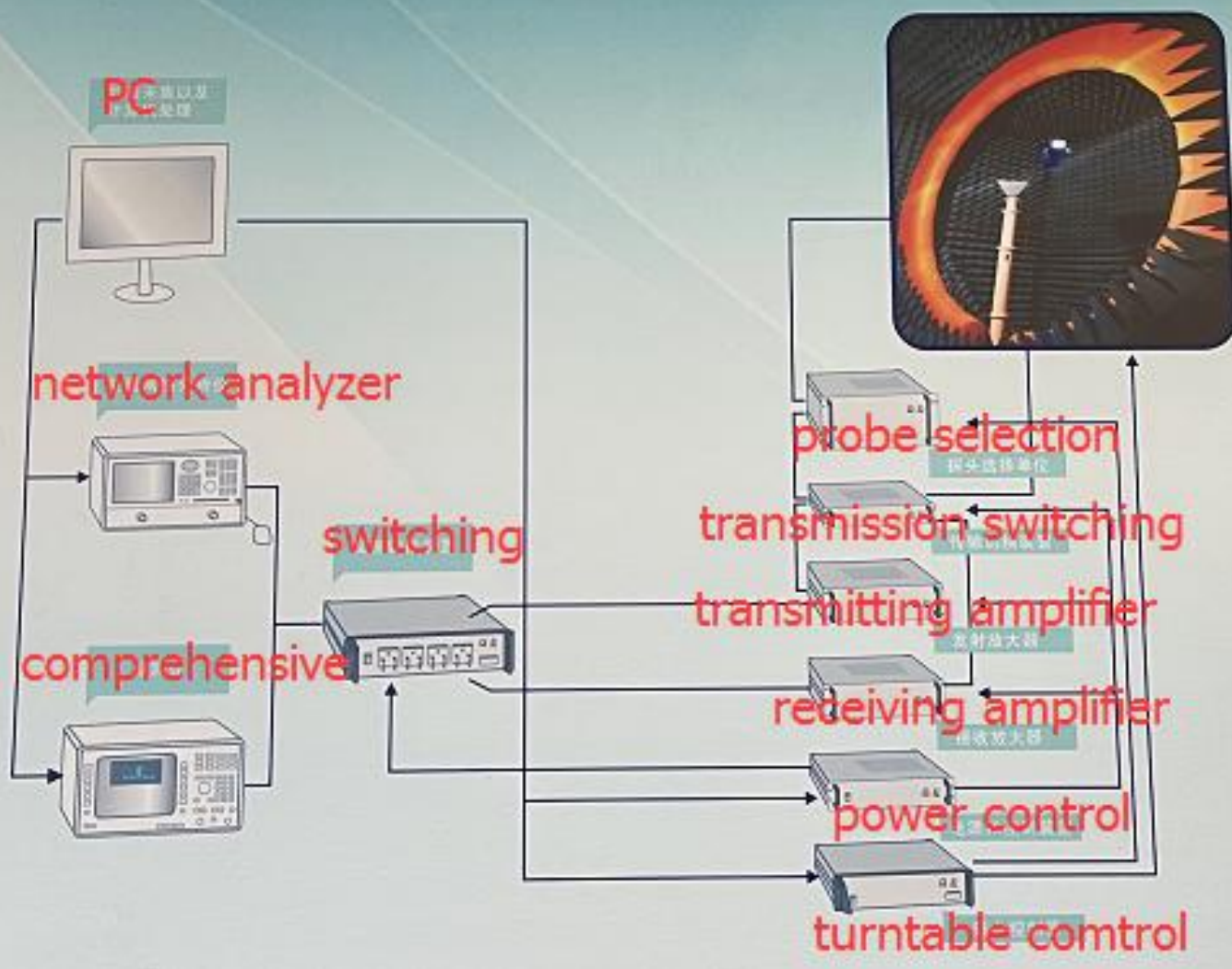
PC



益麦电磁



24探头球面近场天线测量系统



OTA A配置

wifi	channels	TRP (dBm)	TIS (dBm)
2.4G 11b	1	15.32	-78.45
	7	15.64	-79.36
	13	15.12	-80.41
5G 11a	36	14.45	-78.23
	165	15.24	-78.64

YGPS

SATEL LITES CNR SATEL LITES LOC INFORM ATION NMEA LOG GPS TEST

G:GPS R:GLN B:BD E:GAL Q:QZS L:L1S I:IRNSS S:SBAS

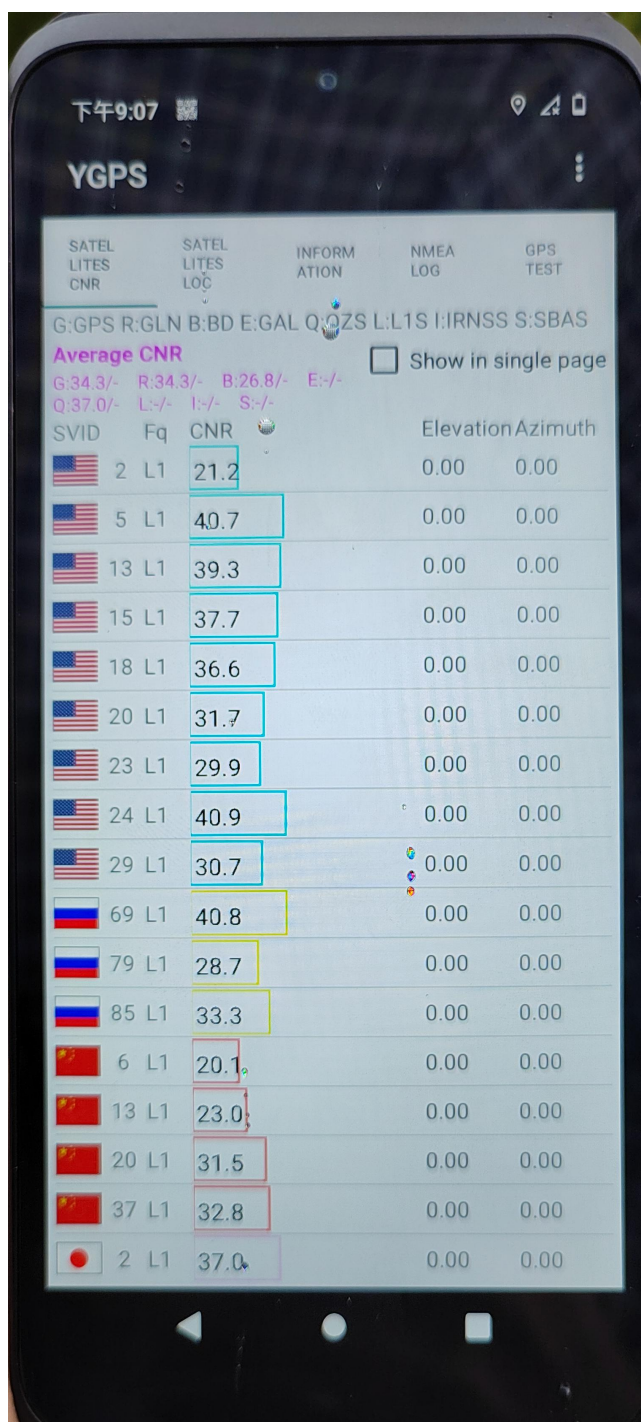
Average CNR Show in single page

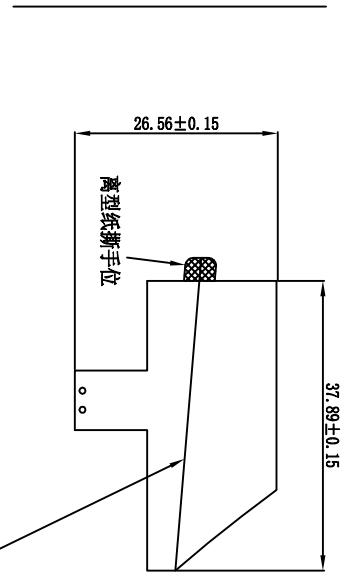
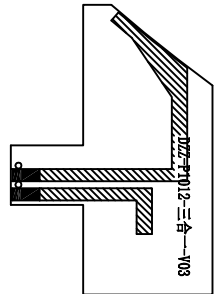
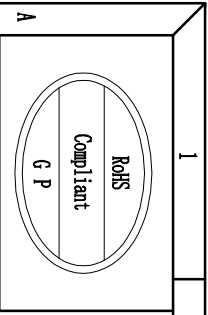
G:30.2/- R:33.7/- B:25.0/- E:-/-
Q:29.0/- L:-/- I:-/- S:-/-

SVID	Fq	CNR	Elevation	Azimuth
11 L1		31.8	29.00	137.00
15 L1		32.5	64.00	263.00
20 L1		27.4	35.00	80.00
24 L1		28.9	0.00	0.00
65 L1		34.3	50.00	0.00
66 L1		40.9	35.00	274.00
72 L1		29.3	16.00	44.00
74 L1		21.4	11.00	54.00
75 L1		28.9	14.00	106.00
81 L1		0.0	29.00	327.00
87 L1		42.8	40.00	176.00
88 L1		38.4	72.00	259.00
1 L1		24.2	47.00	140.00
2 L1		0.0	37.00	238.00
9 L1		25.6	33.00	202.00
20 L1		0.0	22.00	271.00
23 L1		13.5	23.00	120.00

OTA B配置

wifi	channels	TRP (dBm)	TIS (dBm)
2.4G 11b	1	15.92	-78.93
	7	15.46	-78.94
	13	15.15	-80.71
5G 11a	36	15.67	-77.84
	165	15.64	-77.77





- 备注:
1. FPC材料: 0.5oz电解铜, 0.5MLI PI 材质
 2. 镀点处理: 镀金
 3. 表面处理: 黑色油墨.
 4. 背胶: 3ML94711E 包装方式: 单片
 5. 丝印字体: 白色
 6. 未标公差尺寸, 模具冲出尺寸公差为±0.1, 铜箔线条尺寸公差为±0.05, 标重点的孔公差为±0.05.
 7. 涂▨为铜箔线路, 涂▩为穿孔. 涂▪的为镀点区域. 涂□的为基材区域
 8. 安规要求: ROHS六项
 9. 品质要求按照得自在《IQC进料检验规范》执行

Rev	1	Description	Date	Remark
A		New drawing		

Project	SHEN ZHEN Be Comfortable CO., LTD
Part Name	三合一
Part No.	F01-7046-ROA
Material	FPC
DWG No.	

Project	P1012	Date	2022.8.19
Part Name	三合一	Designed by	
Part No.	F01-7046-ROA	Checked by	MD 田进
Material	FPC	RF	边博
Location	40~	Approved by	
Third Angle	0.02	Unit	mm
0.02	0.03	Scale	1:1
0.03	0.02	Rev	A
0.04	0.04		
±0.5°	±0.5°		
±0.20	±0.20		
Angle	Angle		

产品包装规范

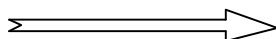
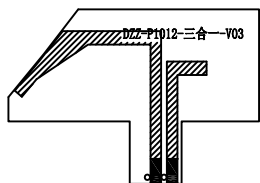
日期: 2022. 8. 19

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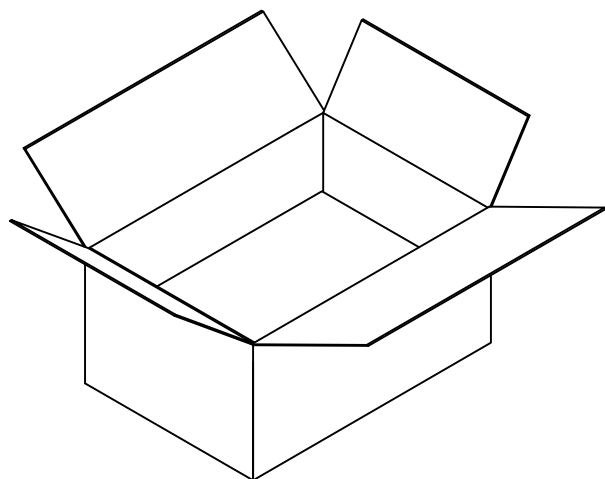
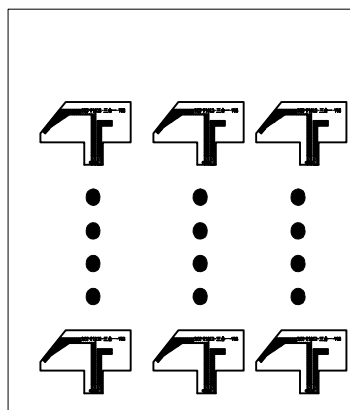
成品类型: 三合一天线

版本: A

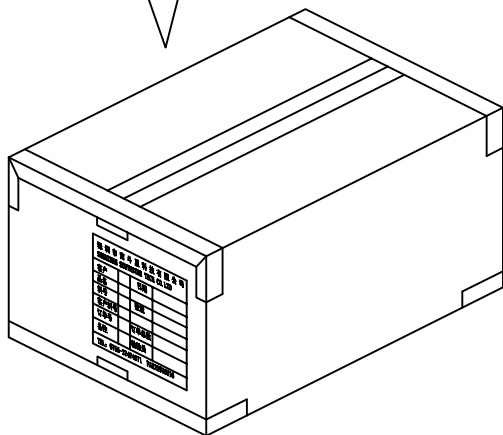
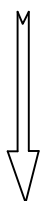
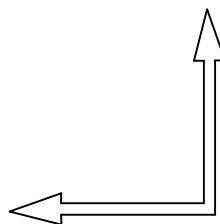
一: 成品天线



二: 用为微粘膜整版包装, 一袋装300pcs.



三: 装一箱, 一箱装12000PCS (以实际包装为准)



四: 封箱, 外箱贴我司生产标签和 ROHS 标签.

批准: _____

确认: _____

拟制: 田进