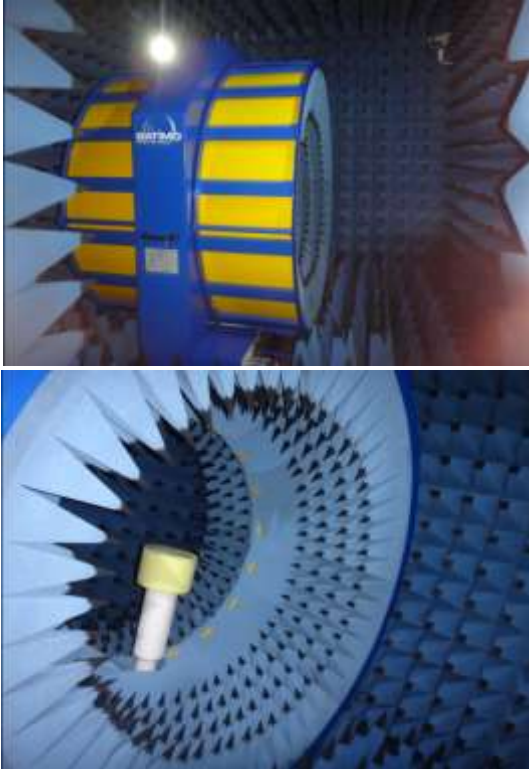


Test Report



Customer Name	Small cool	Project Name	K10
Commissioning frequency band	GSM4P/WCDMA1/2/4/5/8 LTE:1/2/3/4/5/7/8/12/17/25/ 26/28A/B/ 66/71	Structure mode	FPC
RF Engineer	Xie	Structural Engineer	Du Qiang
Antenna Type	PIFA	Date	2024/6/27

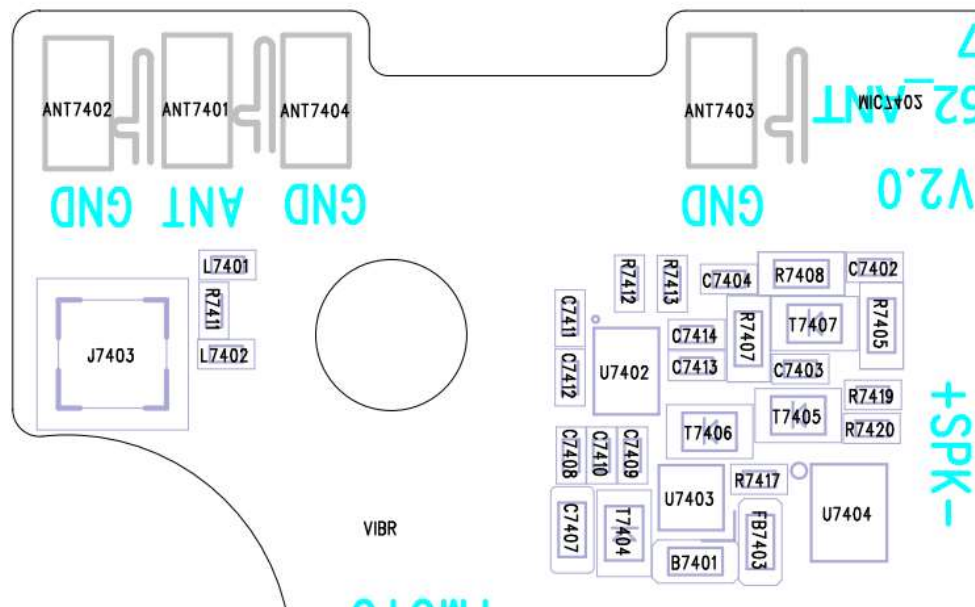


The original imported French SATIMO StarLab 3D laboratory can accurately and quickly test the TRP, TIS, efficiency, gain, Apple diagram, directional diagram and other parameter data of communication terminal products such as mobile phones, tablet computers and notebooks.

Antenna report version summary

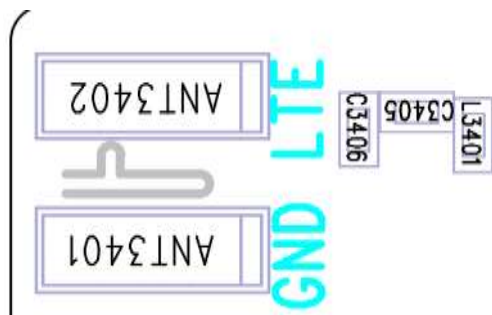
Version	Date	Content Overview
V1.0	2024/6/3	Debugging report
V2.0	2024/6/20	Trial production prototype

The main antenna matching circuit ----- changed



L7401	0.5PF	R7411	2.7NH	L7402	15NH
ANT7404	NC	R7413	NC	R7412	0 欧
C7411	0 欧	C7412	2.7NH	C7414	10NH
C7413	15NH				

The DIV antenna matching circuit ----- changed



C3406	NC	C3405	2.7PF
L3401	NC		

The 3-in-1 antenna matching circuit ----- changed



R6501/1.8NH

Free Space OTA

Band	Channel	TRP (dBm)	TIS (dBm)	Band	Channel	TRP (dBm)	TIS (dBm)
GSM900	L	24.5		DCS1800	L	25.0	
	M	25.2			M	25.5	
	H	26.0	-101.0		H	26.0	-102.5
GSM850	L	24.3		PCS1900	L	25.4	
	M	24.1			M	25.5	
	H	24.3	-102.0		H	25.2	-102.2
W850	L	16.2		W900	L	16.2	
	M	15.7			M	15.8	
	H	16.1	-104.2		H	15.5	-103.0
W1700	L	17.5		W1900	L	17.5	
	M	17.6			M	17.7	
	H	17.7	-100.2		H	18.1	-104.5
W2100	L	17.8		LTE-B1 (10MHZ)	L	17.2	
	M	17.7			M	17.0	
	H	17.2	-102.3		H	16.3	-93.2
LTE-B2 (10MHZ)	L	16.5		LTE-B3 (10MHZ)	L	16.1	
	M	17.0			M	16.8	
	H	16.8	-93.3		H	16.8	-93.3
LTE-B4 (10MHZ)	L	16.3		LTE-B5 (10MHZ)	L	16.2	
	M	16.7			M	16.5	
	H	16.7	-92.1		H	16.3	-92.5
LTE-B7 (10MHZ)	L	15.1		LTE-B8 (10MHZ)	L	16.0	
	M	15.2			M	15.8	
	H	15.0	-93.0		H	15.0	-90.0
LTE-B12 (10MHZ)	L	15.6		LTE-B17 (10MHZ)	L	15.8	
	M	16.2			M	16.2	
	H	16.0	-93.2		H	16.0	-92.8
LTE-B25 (10MHZ)	L	17.2		LTE-B26 (10MHZ)	L	15.7	
	M	17.5			M	16.0	
	H	17.7	-93.3		H	15.8	-92.8

Band	Channel	TRP (dBm)	TIS (dBm)	Band	Channel	TRP (dBm)	TIS (dBm)
LTE-B28A (10MHZ)	L	15.0		LTE-B28B (10MHZ)	L	15.2	
	M	16.1			M	16.2	
	H	15.7	-92.6		H	15.8	-92.5
LTE-B66 (10MHZ)	L	16.8		LTE-B71 (10MHZ)	L	14.0	
	M	17.1			M	14.3	
	H	17.5	-93.0		H	14.1	-88.7

WIFI OTA

Band	Channel	TRP (dBm)	TIS (dBm)	Band	Channel	TRP (dBm)	TIS (dBm)
2.4G(B-mode) 11M	1	7.2	-78.8	5G(A-mode) 54M	36	9.5	-71.2
	7	8.2	-79.0		64	9.4	-71.0
	13	8.1	-80.5		165	8.7	-70.2

GPS measurement

☒ Show in single page

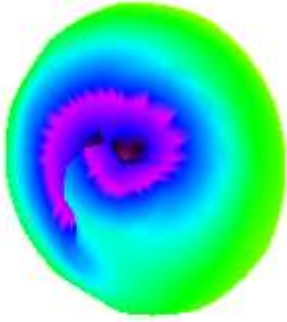
ID	CNR	ID	CNR	ID	CNR
G10	42.8	G12	36.0	G15	18.1
G18	27.5	G23	42.3	G24	37.0
G25	34.2	G28	35.2	G32	41.1
R65	0.0	R66	0.0	R70	0.0
R71	35.6	R72	35.3	R73	40.2
R74	34.1	R80	17.1	R81	38.5
R84	37.5	R85	29.8	R86	35.6
R87	37.3	B1	25.6	B2	26.1
B3	34.5	B4	0.0	B5	0.0
B6	32.3	B7	29.6	B8	38.5
B9	25.4	B10	28.0	B16	30.8
B23	32.4	B24	34.0	B25	40.3
B27	27.4	B28	37.7	B32	38.4
E26	32.0	E33	36.1	Q3	29.0
Q4	36.0	S41	28.0		

Antenna gain (Antenna Gain)

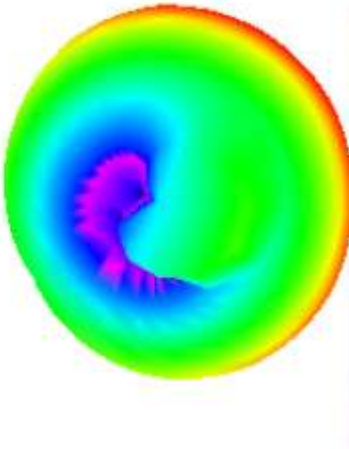
Standard	Band	Frequency (MHZ)	Gain (dbi)
LTE	FDD-B1	1920	0.1
LTE	FDD-B2	1880	-0.6
LTE	FDD-B3	1740	1
LTE	FDD-B4	1740	1
LTE	FDD-B5	834	-4.3
LTE	FDD-B7	2520	-1.9
LTE	FDD-B8	890	-4.9
LTE	FDD-B12	710	-7.8
LTE	TDD-B17	710	-7.8
LTE	TDD-B25	1880	-0.6
LTE	TDD-B26	834	-4.3
LTE	TDD-B28	710	-7.8
LTE	TDD-B66	1740	1
LTE	TDD-B71	670	-7.9
WCDMA	WCDMA-B1	1920	0.1
WCDMA	WCDMA-B2	1880	-0.6
WCDMA	WCDMA-B4	1740	1
WCDMA	WCDMA-B5	834	-4.3
WCDMA	WCDMA-B8	890	-4.9
GSM	GSM 850	834	-4.3
GSM	GSM 900	890	-4.9
GSM	DCS 1800	1740	1
GSM	PCS 1900	1880	-0.6
GPS		1575	-2.3
2.4G WiFi/BT		2480	1.8
5G WiFi		5250	0.6

Apple Chart

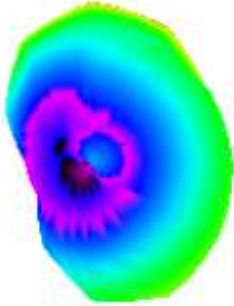
GSM900/W900/LTE-B8



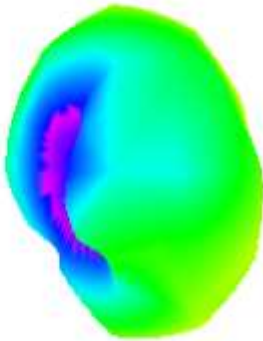
GSM850/W850/LTE-B5/26



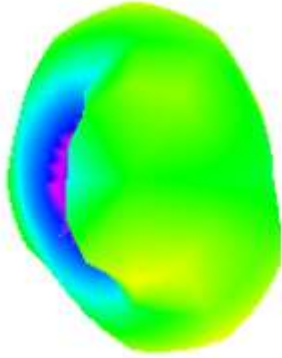
DCS1800/W1700/LTE-B3/4/66



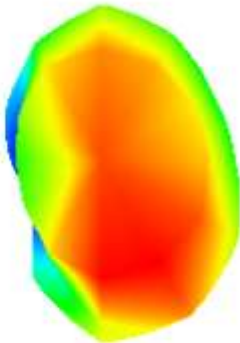
PCS1900/W1900/LTE:2/25



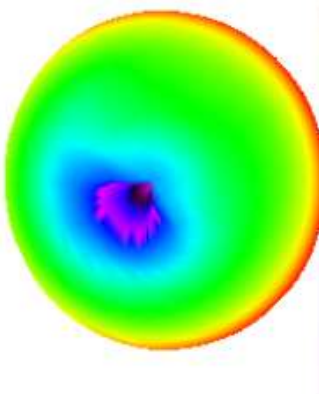
W2100/LTE-B1



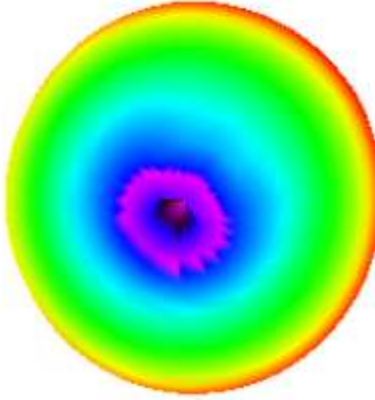
LTE-B7



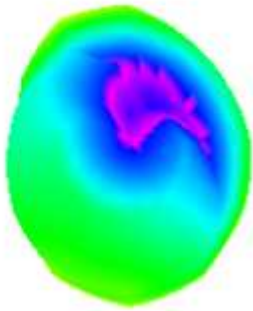
LTE-B12/17/28



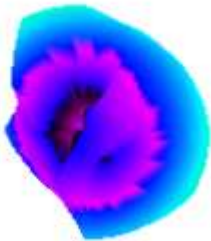
LTE-B71



GPS



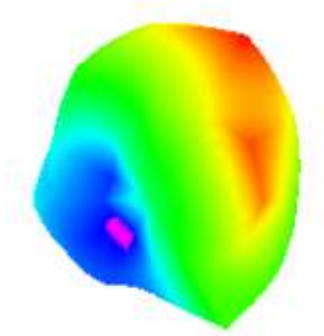
2.4G WIFI/BT





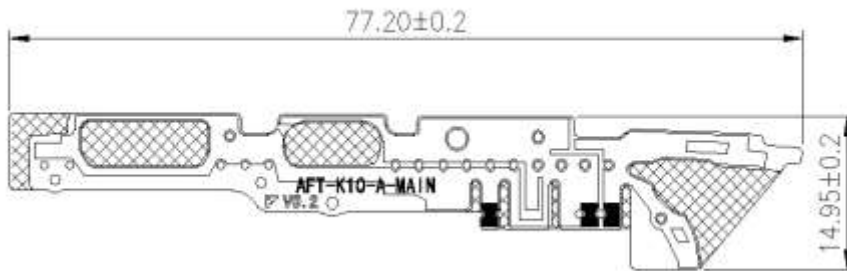
深圳市无限智联科技有限公司
Shenzhen wuxian zhilian technology co., ltd

5G WIFI

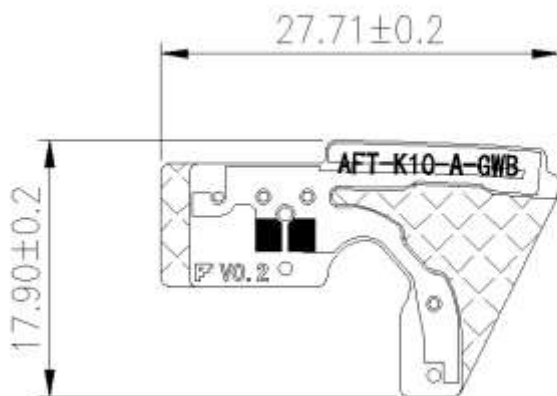


Antenna size:

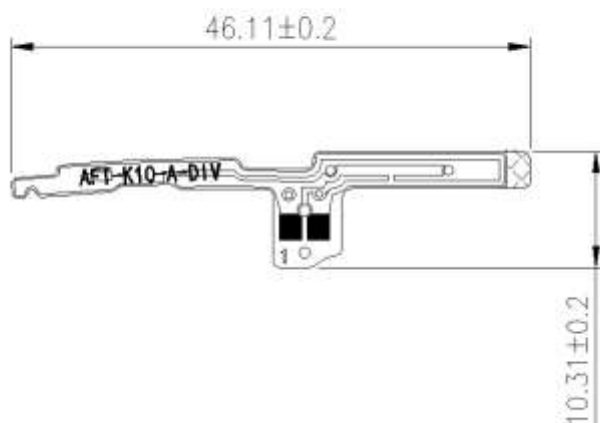
Main antenna



WIFI/BT/GPS antenna



DIV antenna



Environmental treatment:

