

Shenzhen New Link Technology Co.,Ltd

ANTENNA APPROVAL SHEET

Customer: See the

Project : YUZU

Part number	XLK-YUZU-WiFi 2.4G&5G-1	Audit	Zhang haidong
RF Engineer	Yang Hai	Structural Engineer	Zhang haidong
address	The fifth floor of the office building of the Fifth Industrial Zone, North District, High-tech Park, Nanshan District, Shenzhen		
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Company email address	sales@kpanenna.com	Contact	Li Peng

This acknowledgment is the debugging of the gold machine data, only for the gold machine is responsible, it is recommended that your company keep a gold machine in our company, and our company will have the same amount as the gold machine materials and software The production machine guarantees the antenna performance.

project: : YUZU		write: Zhang hai dong	file name: See the-YUZU antenna specification book
date: 2026.01.09			
version	V1	to examine: liufang	
Mold products			
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Testing procedure

Name	Parameter	Method	Standard no.
Mobile communication antenna	VSWR	Generic specification for antennas used in the mobile communications	GB/T 9410-2008
	Antenna gain		
	Radiation pattern		
Antenna performance	Radiation efficiency	IEEE Standard Test Procedures for Antennas	ANSI/IEEE Std 149-1979

Equipment List

Equipment	Model	Last Cal.	Due Date
Communication Test Set	CMW500/8960	6/3/2025	6/2/2026
Chamber	6m*3m*3m	8/26/2025	8/25/2026

Test software

R&S AMS32,N6141A

1.Overview

This report mainly describes the performance of the antenna for the machine. See-YUZU project camera, the use frequency range is, 2.4G/5.8GWIFI the machine antenna is PIFA form, located inside the machine

2. Detailed introduction

2.1 Matching circuit (matching unchanged)

3.Debug the settings

The transmit power and receive sensitivity are 3D results measured using the CMW500/8960 in a microwave anechoic chamber (6m*3m*3m).

3.1 TRP、TIS

Wifi 2G TRP		
1	7	13
2412	2442	2472
12.54	14.41	14.65
Wifi 2G TIS		
1	7	13
2412	2442	2472
-80.53	-78.1	-80.51

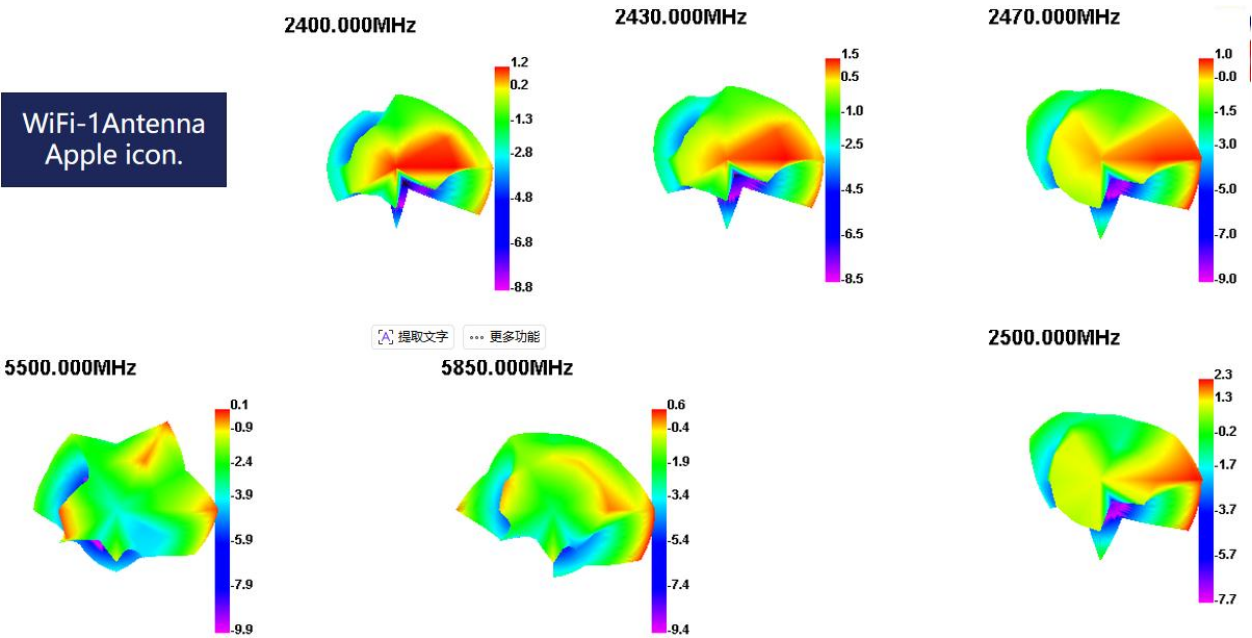
Wifi 5G TRP		
36	149	165
5180	5745	5825
12.31	13.36	13.94
Wifi 5G TIS		
36	149	165
5180	5745	5825
-71.91	-71.67	-69.36

3.2Antenna passive data

Passive Test For WIFI2.4		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	27.86	1.19
2410	31.3	1.63
2420	31.37	1.64
2430	30.59	1.47
2440	36.75	2.11
2450	38.41	2
2460	36.46	1.51
2470	32.73	0.96
2480	34.32	1.29
2490	33.56	1.19
2500	43.77	2.3

Passive Test For WIFI5.8		
Freq (MHz)	Effi (%)	Gain (dBi)
5150	50.79	2.19
5200	50.83	2.16
5250	36.81	1.76
5300	29.62	0.56
5350	32.8	0.85
5400	26.7	0.14
5450	27.57	0.23
5500	30.03	0.07
5550	24.51	-0.86
5600	22.66	-1.37
5650	21.77	-1.29
5700	33.57	0.57
5750	29.04	-0.43
5800	27.95	-0.44
5850	32.71	0.58

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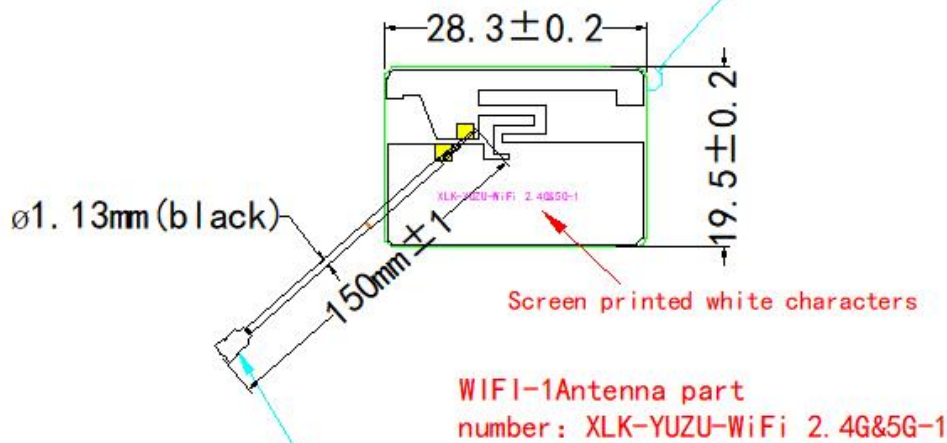


5.antenna position

6.Structural diagram

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Break marks on release paper



A single-head model from one generation.
Solder the terminal end downward.

■Technical Requirements:

1. Material: FPC (black oil, half-electrolytic copper substrate), T < 0.15 mm; reverse adhesive type: 3M9471 (adhesive properties require thermal shock testing).
2. Dimensions marked with an asterisk (*) are subject to special control measures. If no tolerance is specified, it will be governed by the free tolerance within the drawing frame. Dimensions not specified will be verified based on the film inspection (electrical performance must be tested and confirmed as satisfactory).
3. The feed points must undergo anti-oxidation treatment, and should not exhibit any undesirable phenomena such as easy breakage and detachment after anti-oxidation, poor conductivity, or breaks in the circuitry.
4. The surface ink on the FPC must be uniform, free of contaminants, scratches, black spots, wrinkles, and other defects such as poor gold plating.
5. The product complies with the RoHS standard.

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	entry name:	Date	2025-11-25
	YUZU	Design	Zsb
	Product name:	examine	MD
	WIFI1	RF	
	material:	approval	
		unit:mm	:FIT

7.Structural diagram

Product model	YUZU			Number of tests	5PCS		
Test Standards	GB2423.17			Product materials	FPC		
Test items	Requirement Standards	Actual values	decision	Test items	Requirement Standards	Actual values	decision
Test Instrument Specifications	KD-60	KD-60	OK	Test time	24H	24H	OK
Types of salt spray tests	NSS neutral	NSS neutral	OK	Salt spray box temperature	35°C	35°C	OK
SALINE PH	6.5-7.2	6.8	OK	(H.80C) Salt spray sedimentation	1-2ml	1.8ml	OK

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Spray method	Spray continuously	Spray continuousl y	OK	Material of the goods	FPC	FPC	OK
Brine ingredients	5%/NaCL	5%/NaCL	OK	Compressed air section pressure	1 ± 0.1KG/CM2	1	OK
Saturation temperature	47℃	47℃	OK	Specimen placement angle	90°	90°	OK
Test observation time	Observe the phenomenon						
4H	No anomalies						
12H	No anomalies						
24H	No anomalies						
Judging criteria: According to the national standard 5944-86 rating method, grade 9 or above is qualified							
Final Judgment	Eligible √				Unqualified		
Tester	He Yuanyuan	Audit		Wang Aibing	Approval		
Note: The commonly used salt spray test methods are: NSS medium salt spray test, AASS acetate spray test, CASS copper acetic acid accelerated test.							

OQC inspection and test report

report		Customer part number		Detection items	Sampling plan		AQL	AC	RE	decision
Customer model	YUZU			appearance	CR	0.15	0.15	0	1	
quantity	Shipment quantity				MAJ	0.4	0.4	2	3	qualified
	Number of samples				MIN	0.65	0.65	3	4	
1. Open		NIL	10.Pits/crushes		NIL	19.The release liner is not cut			NIL	
2. short circuit		NIL	11.Plating coarse and dirty, gold watermark		NIL	20.Oxidation of the gold surface			NIL	

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3. The line is warped	NIL	12.Gold pinholes, notches	NIL	21.Offset / exposed copper	NIL
4. Damaged lines	NIL	13.Glue line bubbles	NIL	22.Not broken	NIL
5. Rub/scratch	NIL	14.Ink color	NIL	23.Drop gold/throw gold	NIL
6. Exposed copper/nickel	NIL	15.Unclear characters	NIL	24.Bending/deformation	NIL
7. Lose oil	NIL	16.Garbage/foreign objects	NIL	25.Form factor notch	NIL
8. Oxidation/discoloration	NIL	17.Overflowing/flowing glue	NIL	26.Glue stacking/lack of glue	NIL
9. The surface is dirty	NIL	18.pucker	NIL	27.Poor reinforcement	NIL
Decision:	☒ qualified ☐ unqualified ☐ special picking				

Note: Please store this product in a low temperature, low humidity (temperature 18-28°C, humidity 35%-75%RH) non-corrosive gas environment, it is recommended to use it within one week after opening.

Reliability testing		
The name of the project	requirements	Measurements
Thermal shock experiments	288°C*10S'*3order	288°C*10S'*3 times without delamination and blistering
Anti-peel experiment	≥1.0 kg f/c m²	1.112 kg f/c m²
Ink pull test	The 3M600 tape is pulled up vertically	No ink dropping
List of production and testing equipment		
Production equipment	Testing equipment 1	Testing equipment 2
Etching profile machine	Two-dimensional camera	micrometer

Inspectors:

Audit:

Material Composition Declaration Form

1	substrate	One-to-one materials	Cailenghetti	SHAEC24028809006	2024/12/20	Pages 1-8
2	Adhesive backing	3M9471LE	3M	SHAEC24032493501	2025/12/12	Pages 1-8
3	printing ink	Black BLACKINK	Youli	ETR25501383	2025/03/20	Pages 1-73
4	Electricity gold	detect		A2250164855101001E	2025/03/21	Pages 1-7
1	substrate	One-to-one materials	Cailenghetti	SHAEC24028809006	2024/12/20	Pages 1-8

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Shipping method

The item category	Packing	Illustration of an example
FPC	1、 PET plastic bag packaging	

Note: Please store this product in a low temperature, low humidity (temperature 18-28 °C, humidity 35%-75%RH) non-corrosive gas environment, it is recommended to use it within a week after opening the package, please try not to let the product 3M glue have fingerprints during use, so as not to affect the adhesion.

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