Shenzhen New Link Technology Co.,Ltd

Sample specification

ANTENNA APPROVAL SHEET

Customer: Chen Zhan

Item: TBX-100

P / N	**5170070816F2 3900900008F0**	**examine**	**Peng Li**
Radio frequency engineer	**Kong xianghua**	Structural engineer	**Yang Hai**
address	Fifth Floor, Office Building, Fifth Industrial Zone, North District, High-tech Park, Nanshan District, Shenzhen		
telephone	13902948715	**website**	www.kpantenna.com
The company mailbox	sales@kpanenna.com	**contacts**	**Peng Li**

1.Overview

This report mainly describes the performance of the antenna. The antenna frequency range of the TBX-100 project is WIFI antenna frequency: 2.4-2.5GHz,5.15-5.85GHz, and the antenna is located outside the machine

2.detailed introduction

2.1building-out circuit （The match is not changed）

3.Debugging Settings

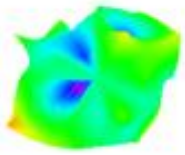
Emission power (TX Power) and reception sensitivity (RX Sensitivity) The mission power and reception sensitivity are 3D results measured using CMW500 in a microwave dark chamber (6m * 3m * 3m)

3.1 TRP、TIS

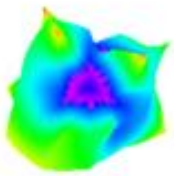
WIFI Antenna data

Frequency (MHz)	2400	2450	2480	5150	5550	5850
Gain (dBi)	-7.15	-7.42	-7.18	-5.36	-5.78	-5.23
Frequency (MHz)	2400	2450	2480	5150	5550	5850
Efficiency(%)	6.42	7.28	7.15	9.75	10.27	8.54

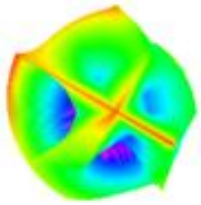
2400.000MHz



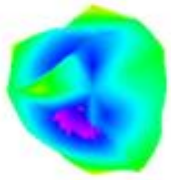
2450.000MHz



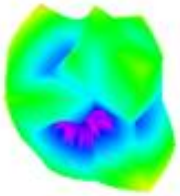
2480.000MHz



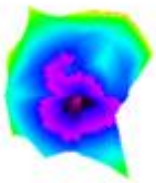
5150.000MHz



5550.000MHz



5850.000MHz

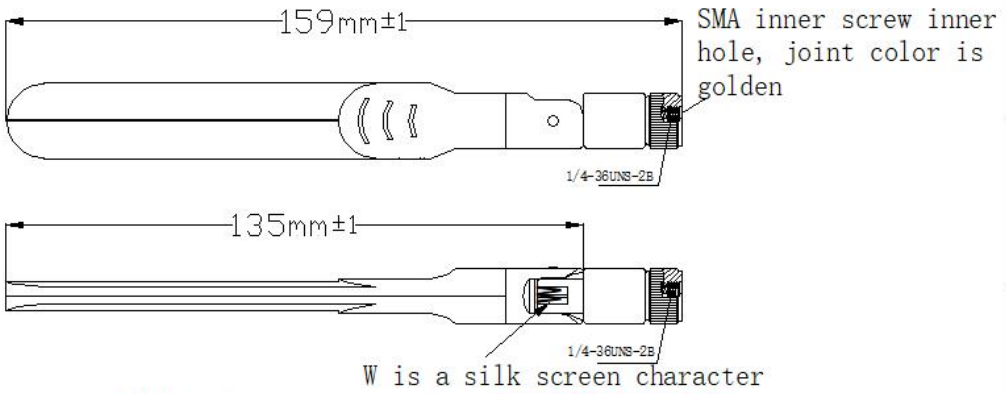


3.3.Environmental treatment

No change

4. assumption diagram

Drawing products are ROHS compliant



Technical requirement:

WIFI antenna part number;3900900008F0

一, Surface requirement:
1.The surface of the product should not be dirty, strained, bruised, lack of materials and other bad
2.Electroplating salt spray 48H can not have oxidation, discoloration and other bad
二, Mechanical property
1, The screw must pass through the regulation
三, Electrical performance of WIFI antenna
1, Impedance 50 ohms
2, WIFI antenna operating frequency:
2.4-2.5GHZ, 5.15-5.85GHZ

WIFI antenna

ID	Part name	P/N	material	Surface treatment	quantity	Customer part number	remark
1	VIPIantenna	XLK-TBX-100-WIFI	-	NONE	1PCS		

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Finished drawing

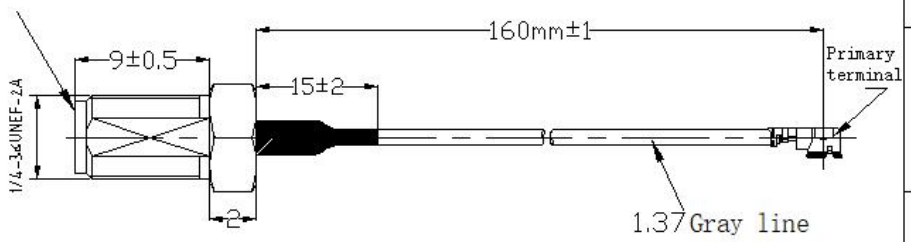
TITLE	WIFIantenna		
P/N			
CUST. P/N			
CUST. NO			

DRAW:	Zhang Haidong	DATE:	2024-04-24
CHECK:	Kong Honghua	DATE:	2024-04-24
APPV:	Yang Hai	DATE:	2024-04-25
APPV:	Li Peng	DATE:	2024-04-25

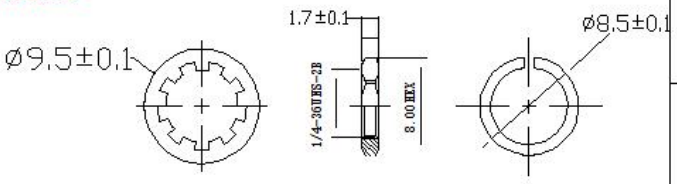
Drawing products are ROHS compliant

SMA outer screw inner needle, joint color is gold

WIFI antenna conversion cable



Part number of WIFI antenna adapter cable;5170070816F2



Technical requirement:
1.The surface of the product should not be dirty, strained, bruised, lack of materials and other bad
2.Electroplating salt spray 48H can not have oxidation, discoloration and other bad
二, Mechanical property
1, The screw must pass through the regulation
三, Electrical performance of WIFI antenna
1, Impedance 50 ohms
2, no short circuit between the PIN pin and the shell
3.2.4-2.5GHZ, 5.15-5.85GHZ
4.VSWR less than 1.5
四, product shipping requirements
1, inner tooth washer, nut, stop ring washer, separate each package 100Pcs

ID	Part name	P/N	material	Surface treatment	quantity	Customer part number	remark
1	[redacted]	XLK-SMA-TBX-100-160	-	NONE	1PCS		

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Finished drawing

TITLE	1.37mm/160mm/IPEX/gray
P/N	
CUST. P/N	
CUST. NO	

DRAW:	Zhang Haidong	DATE:	2024-04-24
CHECK:	Kong Honghua	DATE:	2024-04-24
APPV:	Yang Hai	DATE:	2024-04-25
APPV:	Li Peng	DATE:	2024-04-25

Project: TBX-100		Zhang hai ong	Chen Zhan-TBX-100 antenna specification book
Date: 2024.06.28			
Revision	V2.1	Lipeng	
Mould			

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5、Salt mist detection report

Handset Model	TBX-100			Tested Quantity	5PCS		
Standard	GB2423.17			Product material	PCB+ABS+SMA		
Tested Items	Required Standard	Actual value	Result	Tested Items	Required Standard	Actual value	Result
Tester Model	KD-60	KD-60	OK	Tested Period	24H	24H	OK
Salt Fog Test Type	NSS Neutral NSS	NSS Neutral NSS	OK	Salt Fog Box Temperature	35° C	35℃	OK
Salt PH	6.5-7.2	6.8	OK	amount of precipitation of Salt fog (H.80C)	1-2ml	1.8ml	OK
Fog spit type	Continued fog	Continued fog	OK	Material	FPC	FPC	OK
Volume of salt	5%/NaCL	5%/NaCL	OK	Compressed air pressure	1±0.1KG/CM2	1	OK
saturated temperature	47° C	47℃	OK	Sample location angel	90°	90°	OK
Observed Period	Observed phenomenon						
4H	NA						
12H	NA						
24H	NA						
Judged Standard: Judged by the method of GB5944-86, over Level 9 is qualified.							
Final Tested Result	Qualified √				Unqualified		
Tested by	Benyuan He	Supervised by	Aibing Wang		Approved by		
Remark: normal salt fog tested methods is NSS,AASS and CASS.							

delivery mode

Material category	Packing method	
PCB+ABS+SMA	1、PET plastic bag packaging	

Note: Please store this product in low temperature, low humidity (temperature 18-28℃, humidity 35% -75% RH) without corrosive gas, and it is recommended to use it within one week after opening the bag