Shenzhen Ouhuang Communication Technology Co., LTD

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Product Specification

Client4： Yuexintong

MaterialCode：004.09.000.0186

Name： H603-WIFI-B

Specifications: FPC_L*W34.50mm*15.60mm；L60mm-φ1.13mm-IPEX，black

Date: 2024-07-30

Customer confirmation/date

Address: 1001, Pingtai Chang Science and Technology Park, Yongnan Industrial Zone, Shangcun Community, Gongming Street, Guangming District, Shenzhen

Tel: 15012570822

Catalogue

1.Specifications Overview

The specification describes the WIFI and antenna status of Yue Xintong H603-WIFI-B, which is in the frequency band of 2.4G/5GHz and is manufactured by Shenzhen Ouhuang Communication Technology Co., LTD.

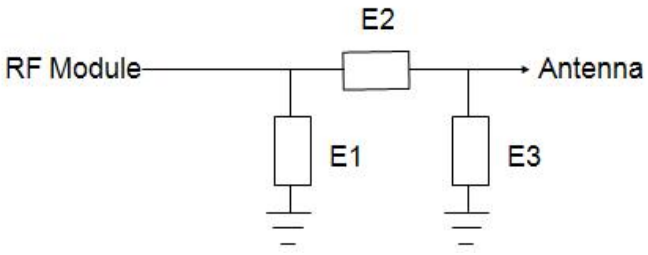
2.Surface

3. Electrical Performance

3.1 Radio Frequency Band

Transmit/receive band (GHz)	WIFI	
	2.4G~2.5G	5.1G~5.9G

3.2 Match Circuit (no Changes)



Element	Value
E1(0402)	Original match
E2(0402)	Original match
E3(0402)	Original match

3.3 Impedance Requirements

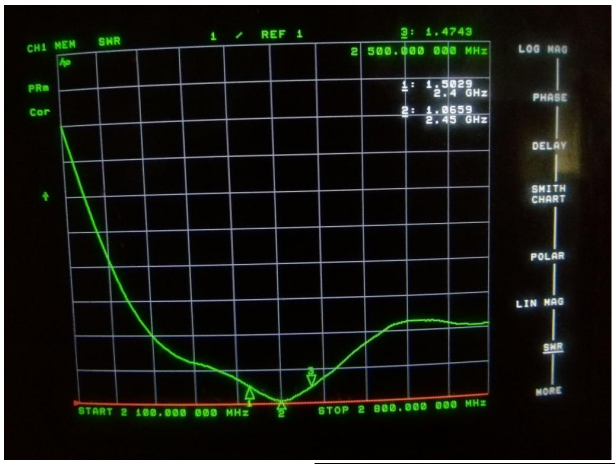
50 ohm

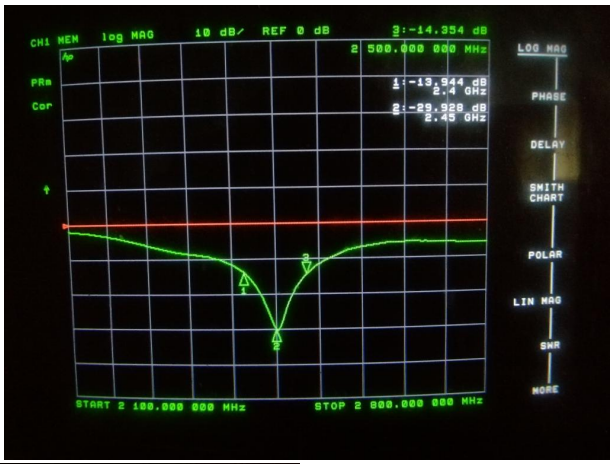
3.4 Antenna Test Data:

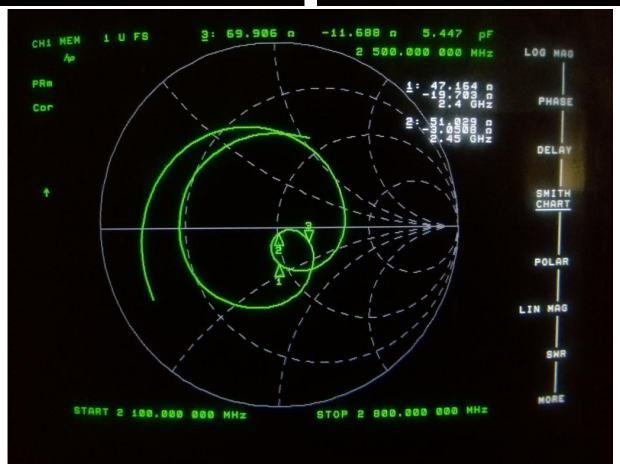
WIFI-B 2.4G electrical performance test data:

Electrical Properties	
Frequency	2.4GHz-2.5GHz
Impedance	50 ohm Nominal
V.S.W.R	1: 1.06 Max
Return Loss	-29.92dB Max
Radiation	Omni-directional
Polarization	Linear, Vertical

VSWR&Return Loss&Smith Chart:

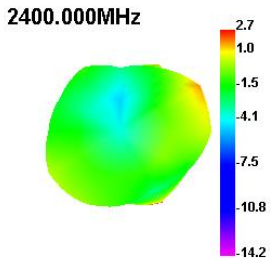


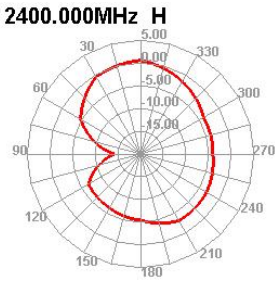


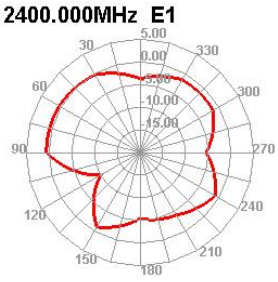


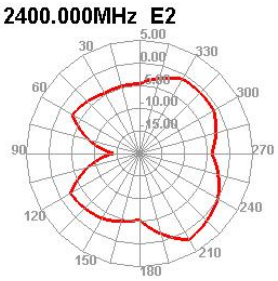
Efficiency, gain and direction:

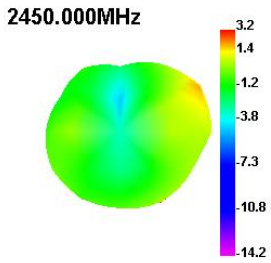
Passive Test For WIFI 2.4G								
Freq	Effi	Effi	Gain	Gain	UHIS	DHIS	Max	Min
(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(dB)	(dB)
2400	61.56	-1.45	2.71	0.56	34.37	37.18	2.71	-14.22
2450	65.93	-0.92	3.16	1.01	39.35	41.57	3.16	-14.24
2500	62.08	-1.24	2.25	0.1	37.7	37.38	2.25	-12.57

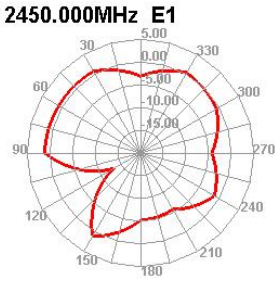


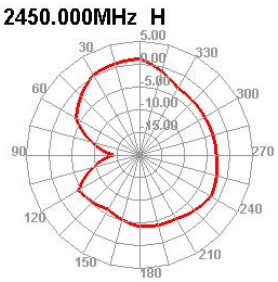


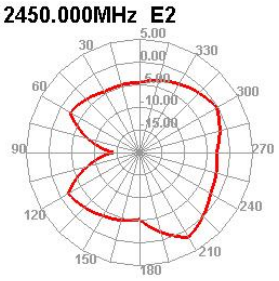


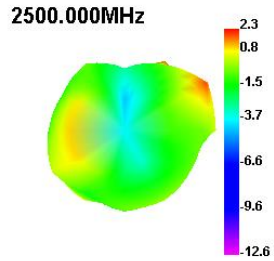


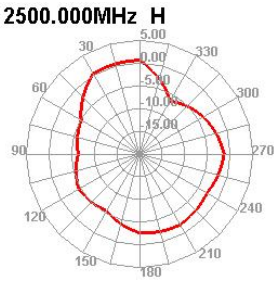


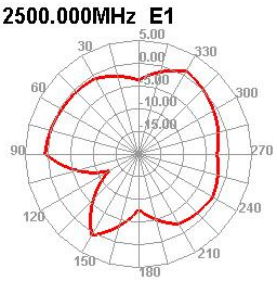


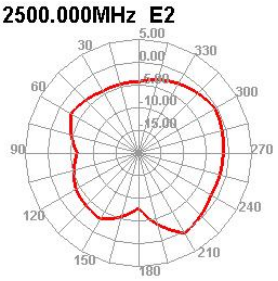








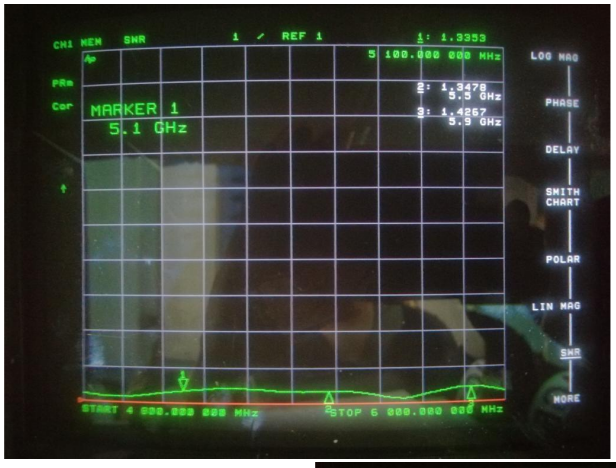


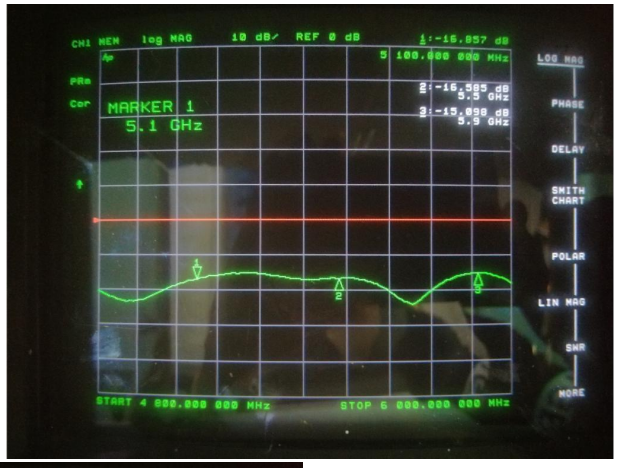


WIFI-B 5G electrical performance test report

Electrical Properties	
Frequency	5.1GHz-5.9GHz
Impedance	50 ohm Nominal
V.S.W.R	1：1.33 Max
Return Loss	-16.85dB Max
Radiation	Omni-directional
Polarization	Linear, Vertical

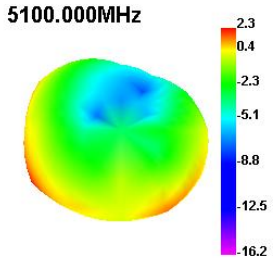
VSWR&Return Loss&Smith Chart

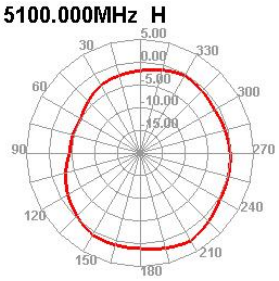


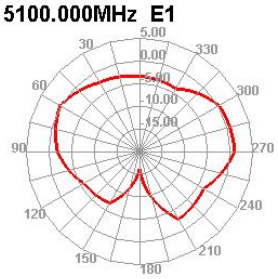


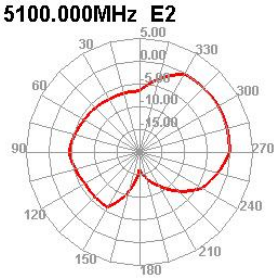
Efficiency, gain and directionality:

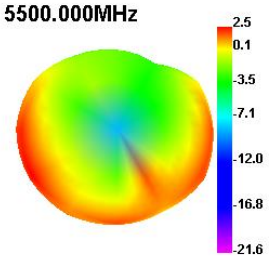
Passive Test For WIFI 5G								
Freq	Effi	Effi	Gain	Gain	UHIS	DHIS	Max	Min
(MHz)	(%)	(dB)	(dBi)	(dBd)	(%)	(%)	(dB)	(dB)
5100	58.2	-2.35	2.29	0.14	36.01	22.20	2.29	-16.23
5500	61.26	-1.47	2.51	0.36	49.64	21.61	2.51	-21.61
5800	61.35	-2.12	3.49	1.34	46.61	14.73	3.49	-17.04

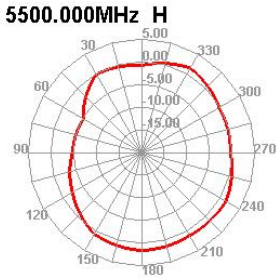


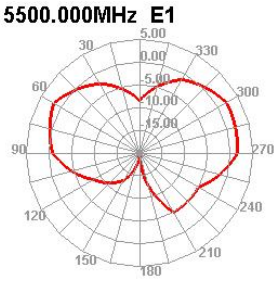


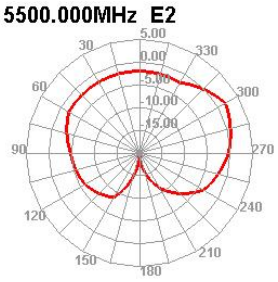


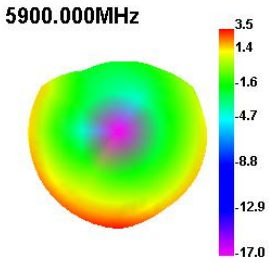


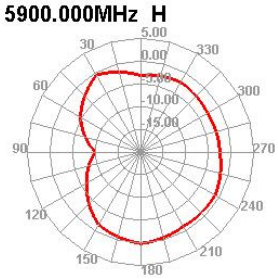


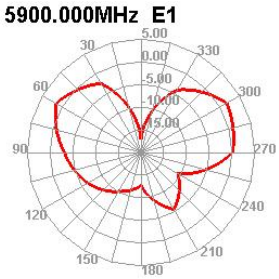


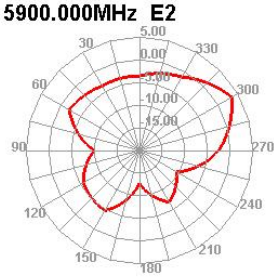




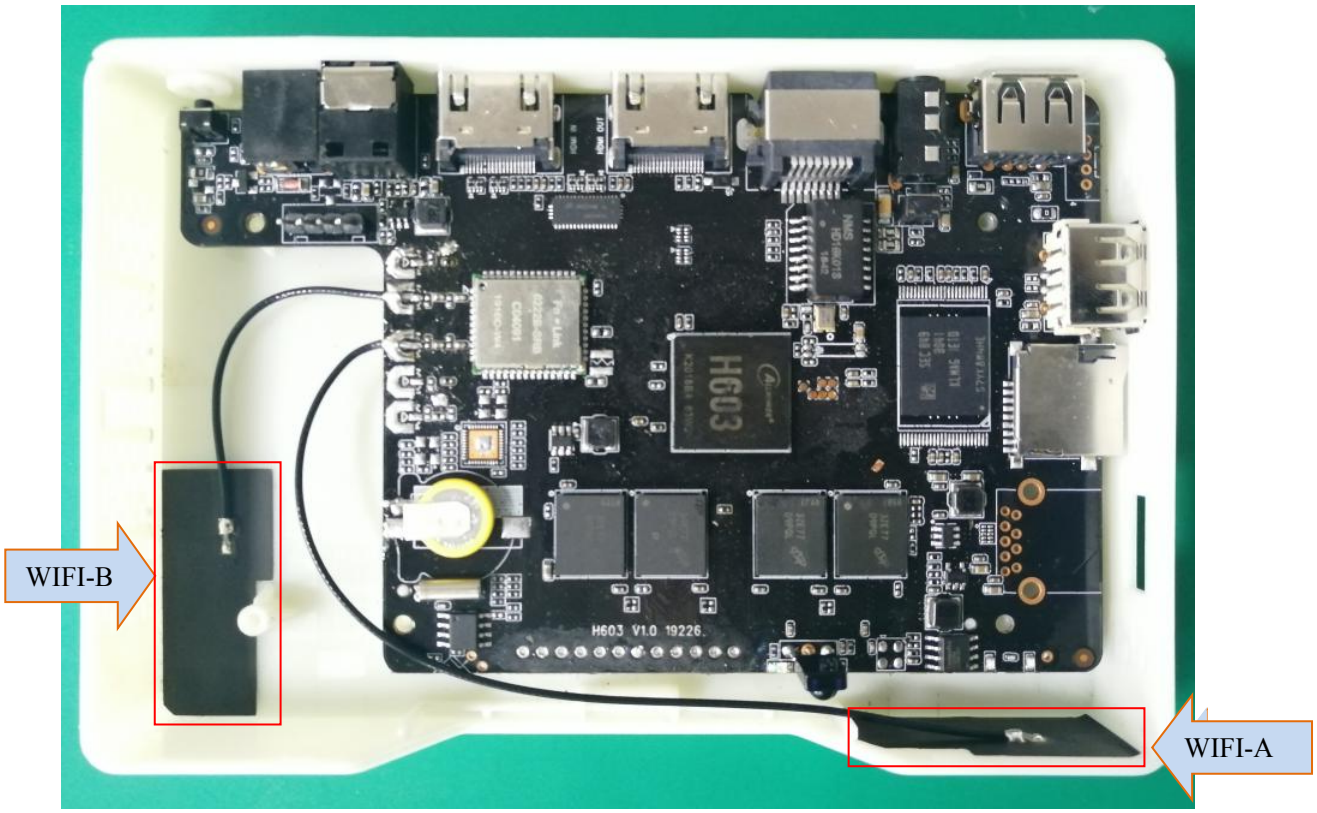


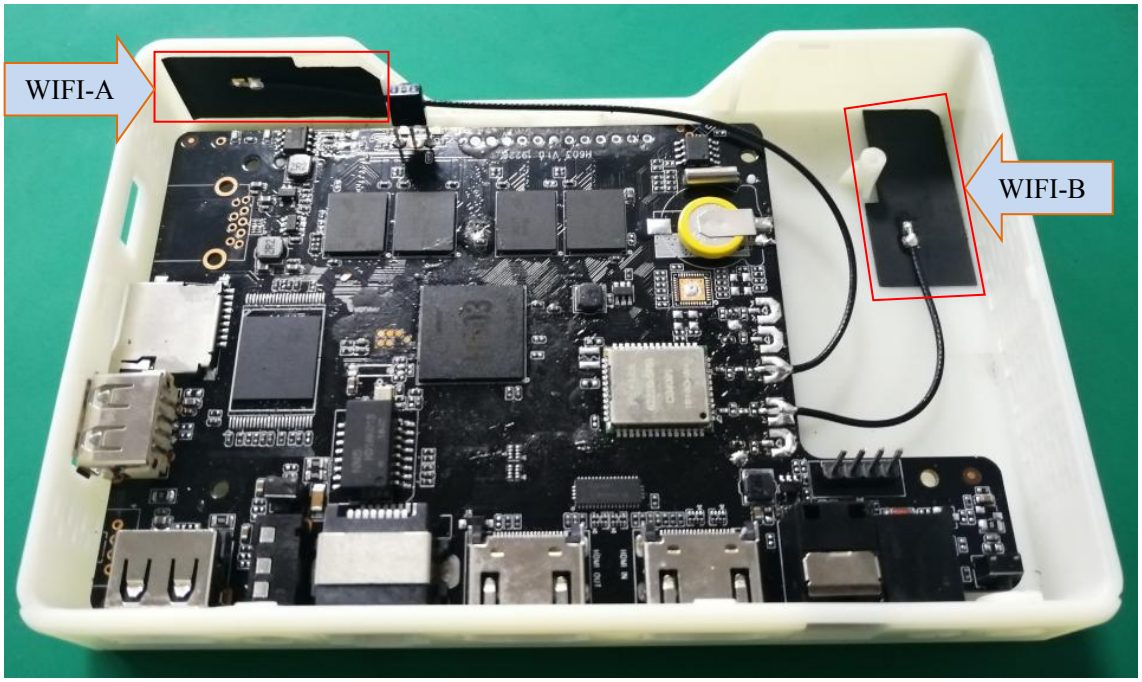






4.Antenna Position





5.Antenna Structure

5.1 Antenna Material

Antenna Material: FPC + 3M Back Adhesive, Φ 1.13RF Coaxial Cable With IPEX, Black

5.2 Structural Drawings