



深圳市博格斯通信技术有限公司
shenzhen bogesi communication technology co., ltd

Product Specification

Customer: NEXGO


Customer code: 07.01.0363

Specification: UN20 WIFI ANT

Manufacturer code: XGD-170C (RB version)

Manufacturer: Shenzhen Bogesi Communication Technology Co., Ltd

Recognition date: 23-Mar-2023

Supplier Sign and Seal	Customer Sign and Seal
<p>高良年</p> 	



Scope of application:

Suitable for NEXGO WiFi antenna solution.

Electrical Specifications:

Frequency Band	2.4/5G	The antenna material	FPC
Nominal Impedance	50 Ω	Operating temperature	Touch
VSWR	≤3.0	Long-term storage temperature	-40°C~+85°C
Peak Gain	2400-2500MHz:1.81dBi	Polarization mode	+19°C~+23°C
	5150-5850MHz:3.98dBi	Polarization	Linear Polarization

Test Conditions And Methods:

Test Instruments	Test Method	Test Result
16-probe test system CMW5000 comprehensive tester	<ol style="list-style-type: none"> Assemble the antenna to be tested on the prototype Turn on the prototype on the test fixture in the darkroom and establish a connection with the comprehensive tester Test the TRP and TIS of the antenna with test software 	Refer to the Test Report

Test Data:

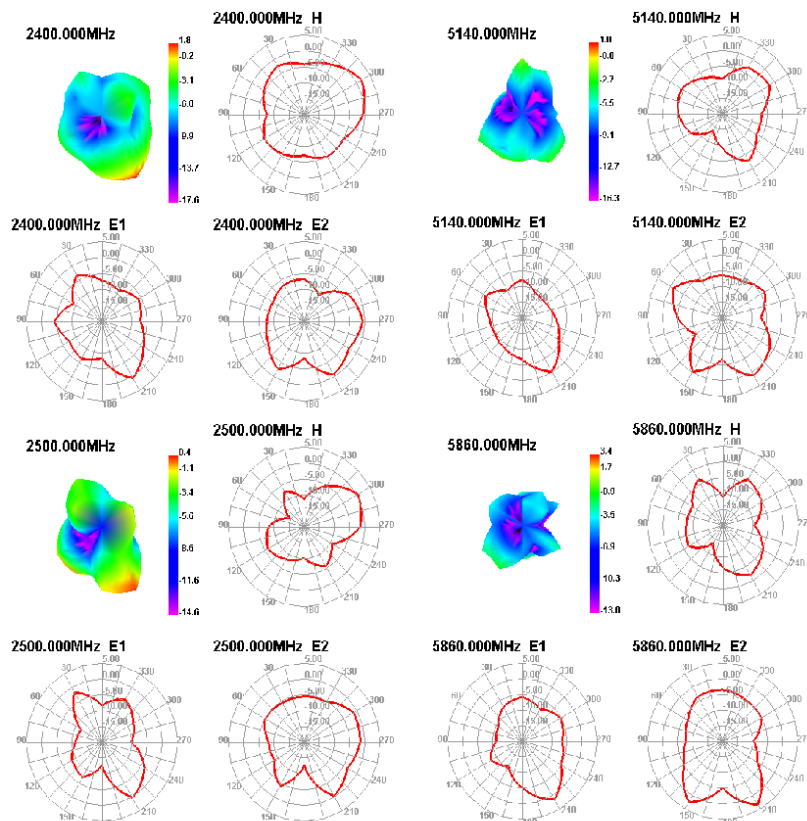
Band	Channel	TRP	TIS
		11g/6M	11g/54M
WIFI 2.4G	Low	10.31	-62.92
	Mid	10.35	-62.93
	High	10.06	-60.28
		11n/6.5M	11n/65M
WIFI 5G	Low	11.26	-63.78
	Mid	11.65	-64.77
	High	12.03	-67.16



Antenna Efficiency:

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	47.45	1.78	5400	53.47	3.26
2410	47.42	1.81	5420	53.86	3.29
2420	43.6	1.41	5440	52.4	3.25
2430	45.61	1.35	5460	51.12	3.28
2440	40.8	1.12	5480	51.23	3.31
2450	43.77	1.2	5500	52.66	3.57
2460	40.9	1.02	5520	52.92	3.59
2470	43.22	1	5540	56.33	3.86
2480	40.82	0.68	5560	55.61	3.92
2490	42.84	0.75	5580	55.08	3.98
2500	39.96	0.38	5600	53	3.59
5140	32.86	1.77	5620	51.99	3.55
5160	38.31	2.73	5640	47.56	3.88
5180	43.71	3.31	5660	45.23	3.67
5200	50.35	3.28	5680	45.3	3.66
5220	54.35	3.79	5700	42.56	3.4
5240	60.05	3.35	5720	43.21	3.52
5260	56.51	3.06	5740	43.02	3.61
5280	59.92	3.42	5760	45.26	3.87
5300	59.2	3.44	5780	47.86	3.94
5320	53.54	3.04	5800	52.56	3.84
5340	55.02	3.26	5820	48.19	3.65
5360	55.81	3.28	5840	45.59	3.43
5380	55	3.44	5860	42.51	3.43

Antenna Directional Diagram:

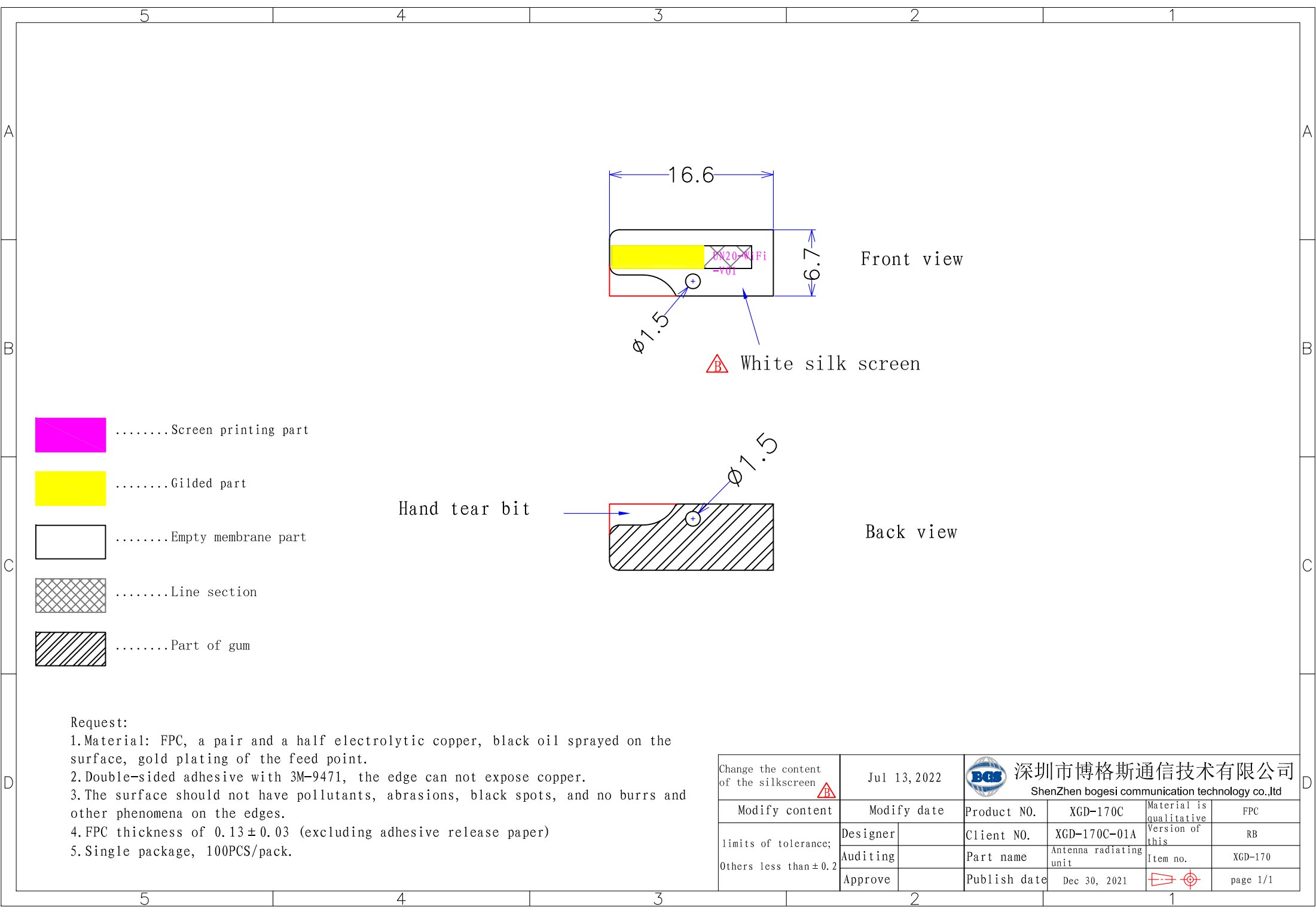









深圳市博格斯通信技术有限公司
shenzhen bogesi communication technology co.,ltd

Sample Pictures:





- Screen printing part
- Gilded part
- Empty membrane part
- Line section
- Part of gum

Request:

1. Material: FPC, a pair and a half electrolytic copper, black oil sprayed on the surface, gold plating of the feed point.
2. Double-sided adhesive with 3M-9471, the edge can not expose copper.
3. The surface should not have pollutants, abrasions, black spots, and no burrs and other phenomena on the edges.
4. FPC thickness of 0.13 ± 0.03 (excluding adhesive release paper)
5. Single package, 100PCS/pack.

Change the content of the silkscreen 	Jul 13, 2022	 深圳市博格斯通信技术有限公司 ShenZhen bogesi communication technology co.,ltd			
Modify content	Modify date	Product NO.	XGD-170C	Material is qualitative	FPC
limits of tolerance; Others less than ± 0.2	Designer	Client NO.	XGD-170C-01A	Version of this	RB
	Auditing	Part name	Antenna radiating unit	Item no.	XGD-170
	Approve	Publish date	Dec 30, 2021		page 1/1



Antenna packaging instructions

一、Outer packing (carton packing)

Front view:



side view:



二、Inner packaging (Each 100PCS is packed in a small package, and then the package size is determined according to the product size)





深圳市博格斯通信技术有限公司
shenzhen bogesi communication technology co.,ltd

Declaration form of product material composition

The product name		UN20 WiFi ANT	Product model		XGD-170C			Declaration date		23-Mar-2023	
The name of the company		Shenzhen Bogesi Communication Technology Co.,Ltd		The contact		Zhou Xuebing		The phone		0755-86083452	
The serial number	Part name	Name of homogeneous material	The amount of RoHS limiting substance contained in homogeneous material (ppm)						Test report no.	Inspection date	
			Cd	Pb	Hg	Cr+6	PBB	PBDE			
1	Antenna radiation unit	Electrolytic flexible copper clad plate	ND	ND	ND	ND	ND	ND	SHAEC23001049106	2023/2/15	
2		Printing ink	ND	ND	ND	ND	ND	ND	ETR22705905	2022/8/5	
3		3M glue	ND	ND	ND	ND	ND	ND	SHAEC2217569205	2022/12/30	
4		Gold painting	ND	ND	ND	ND	ND	ND	A2220283397101001C	2022/7/9	

Make people:Liang Jinghua

The reviewer: Liang Deliu

Description:

The material analysis expansion table is similar to the machine BOM of our company, which explains the composition of each material provided by the supplier, and then carries out RoHS control for each component (or the supplier shall conduct RoHS compliance management for his supplier and provide inspection certificates of each three parties).

A complete material analysis expansion table, which includes:

1. Material expansion table: component decomposition of parts
2. Third party verification report of each componen