



SPECIFICATION FOR APPROVAL

Customer Name	Edan	
Product Model NO. :		
Specification	iT50 2.4/5G WIFI	
MPN:	LBS-053C (RC version)	
Manufacturer	Shenzhen Bogesi Communication Technology Co., Ltd	
Approve Date	2026/1/14	
Supplier Sign and Seal		Customer Sign and Seal

Note: 1. After the electronic file or paper file that has been stamped by BGS and was provided to the customer,, the customer need to sign the paper or electronic file of the approval back to BGS before place the formal order to BGS. If there is no formal change or change notice, BGS acquiesce that the customer approve and accept this specification of product .

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深圳市博格斯通信技术有限公司

shenzhen bogesi communication technology co.,ltd

Application:

Applied on the Edan's iT50 project

Electrical specifications:			
Frequency band	2.4/5.8G	Antenna material	FPC+PET
Impedance	50Ω	Antenna connect type	Connector
VSWR	≤3.0	Polarization	Linear polarization
Gain	2400–2500MHz:2. 67dBi≤gain≤3. 72dBi	Working Temperature	-40℃ ~+85℃
	5100–5800MHz:1. 67dBi≤gain≤4. 65dBi	Storage Temperature	+19℃ ~+23℃
TRP&TIS:			
Test instruments	Test Method		Test result
BLUETEST.se RTS60 Chamber CMW5000	1.Assemble the antenna inside device 2. OTA RF test in anechoic chamber 3. Measuring TRP and TIS		see the test data
Test conditions and instruments			
Test instruments	Test Method		Test result
7×4×3 anechoic chamber + Aglient E5071B Network analyzer	1.Assemble the antenna inside device 2. Put the device on the fixture in the chamber, and connect with the network analyzer 3. Test the passive test data using the test software		see the test data

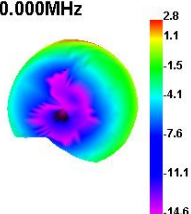
Test data

WiFi天线测试数据:			
		11g/6M	11g/54M
2.4G	Low	11.1	-68
	Mid	12.8	-66.3
	High	12.3	-67
		11a/6M	11a/54M
5G	Low	11.95	-70.49
	Mid	12.25	-70.56
	High	14.34	-67.24

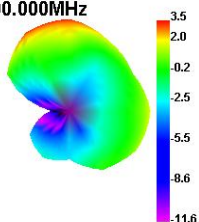
2400MHz-2500MHz		
Freq (MHz)	Effi (%)	Gain (dBi)
2400	51.42	2.84
2410	56.4	3.23
2420	50.8	2.89
2430	53.72	3.09
2440	50.29	2.67
2450	51.89	2.95
2460	50.85	2.76
2470	54.82	3.37
2480	54.63	3.37
2490	54.18	3.72
2500	55.35	3.67

5100MHz-5800MHz					
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
5100	62.88	4.41	5460	60.69	4.23
5120	67.54	4.3	5480	57.16	3.84
5140	61.67	4.19	5500	58.15	3.22
5160	55.94	4.17	5520	57.81	2.9
5180	51.54	3.66	5540	55.08	2.3
5200	50.24	3.54	5560	48.66	1.94
5220	52.72	3.59	5580	44.68	1.67
5240	54.11	4.08	5600	45.97	1.96
5260	64.36	4.42	5620	50.67	2.05
5280	64.04	4.64	5640	54.66	2.62
5300	68.5	4.67	5660	57.88	3.88
5320	63.38	4.29	5680	60.69	4.71
5340	58.86	4.1	5700	65.04	4.64
5360	60.54	4.52	5720	65.9	4.58
5380	57.6	4.37	5740	60.36	4.53
5400	56.84	4.2	5760	58	4.65
5420	55.3	4.07	5780	55.57	3.7
5440	52.73	4.18	5800	53.3	2.98

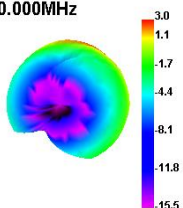
2400.000MHz



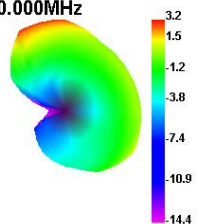
5200.000MHz



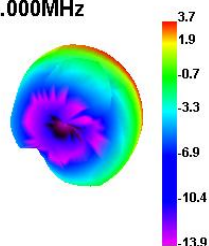
2450.000MHz



5500.000MHz



2500.000MHz



5800.000MHz

