



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

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SPECIFICATION FOR APPROVAL

Customer Name	Edan	
Product Model NO. :		
Specification	iT30 2.4/5G WIFI	
MPN:	LBS-050B (RA version)	
Manufacturer	Shenzhen Bogesi Communication Technology Co., Ltd	
Approve Date	2026/1/13	
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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Application:

Applied on the Edan's iT30 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: 4.68dBi ≤ gain ≤ 5.98dBi	Working Temperature	-40℃ ~ +85℃
	5100-5800MHz: 1.19dBi ≤ gain ≤ 3.37dBi	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

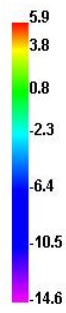
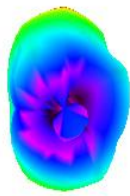
Test conditions and instruments

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

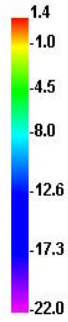
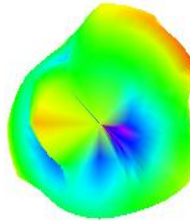
Test data

2400-2500MH			5100-5800MH		
Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	62.93	5.89	5400	56.62	2.41
2420	58.12	5.98	5420	55.07	2.21
2440	57.48	5.47	5440	53.25	1.85
2460	57.86	4.82	5460	54.01	1.86
2480	57.39	4.87	5480	55.78	2.32
2500	55.01	4.68	5500	50.86	2.11
			5520	51.22	1.85
5100	57.51	2.23	5540	49.65	1.54
5120	64.34	2.62	5560	48.62	1.69
5140	62.86	2.64	5580	43.93	1.38
5160	58.17	2.52	5600	43.61	1.19
5180	51.38	1.97	5620	46.94	1.44
5200	45.78	1.39	5640	53	2.12
5220	45.27	1.53	5660	60.15	2.95
5240	42.08	1.3	5680	64.6	3.37
5260	47.69	1.71	5700	64.35	3.04
5280	50.87	1.84	5720	65.82	3.17
5300	56.53	2.36	5740	61.7	3.25
5320	58.86	2.56	5760	58.64	3.18
5340	58.94	2.22	5780	52.92	2.63
5360	62.94	2.57	5800	48.59	2.36
5380	60.49	2.54			

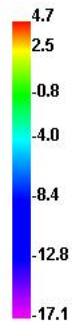
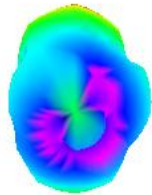
2400.000MHz



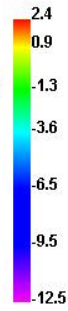
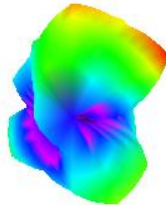
5200.000MHz



2500.000MHz



5800.000MHz



		11g/6M	11g/54M
2.4G	Low	12.8	-69
	Mid	13.9	-68
	High	13.9	-68
		11a/6M	11a/54M
5G	Low	12.9	
	Mid	12.9	-68.54
	High	13.2	-65.43

