



SPECIFICATION FOR APPROVAL

Customer Name Edan

Customer P/N.

Product Description V5(V6) WIFI 2.4G/5G ANT

BGS P/N LBS-021A (RA version)

Manufacturer Shenzhen bogesi communication technology co.,ltd

Approve Date 2026/9/15

BGS 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 acqu iesce that the customer approvel and accept this specification of product .

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1. Antenna Specification

1.1: Electrical Specification	
Freq.Range (MHz)	2400-2500; 5150-5850
Impedance (Ω)	50
VSWR	≤ 3
Directional	Omni directional
Polarization	Linear
Gain (dBi)	V5: 2400-2500MHz:1.86dBi $\leq$ gain $\leq$ 2.95dBi
	V5: 5100-5825MHz:2.12dBi $\leq$ gain $\leq$ 4dBi
	V6: 2400-2500MHz:2.25dBi $\leq$ gain $\leq$ 3.93dBi
	V6: 5100-5825MHz:2.53dBi $\leq$ gain $\leq$ 3.58dBi
1.2: Mechanical Specification	
Material	FPC+FR4
RF Cable Type	RF1.13
Connector Type	second-generation terminal
1.3: Environmental Specification	
Operation temp	-40 $^{\circ}$ C $\sim$ +85 $^{\circ}$ C
Storage temp	-40 $^{\circ}$ C $\sim$ +85 $^{\circ}$ C



3.Test Report

3.1: Active test data

V5	Band	Channel	TRP	TIS	Band	Channel	TRP	TIS
			11g/6M	11g/54M			11g/6M	11g/54M
	2.4G	Low	8.38	-66.5	5.8G	Low	8.76	-66.6
		Mid	13.7	-57.2		Mid	8.56	-67.3
		High	9.5	-65.7		High	7.11	-65

V6	Band	Channel	TRP	TIS	Band	Channel	TRP	TIS
			11g/6M	11g/54M			11g/6M	11g/54M
	2.4G	Low	9.35	-57.2	5.8G	Low	8.78	-67.7
		Mid	13	-65.7		Mid	8	-55.8
		High	8.3	-66.5		High	9.61	-65.8

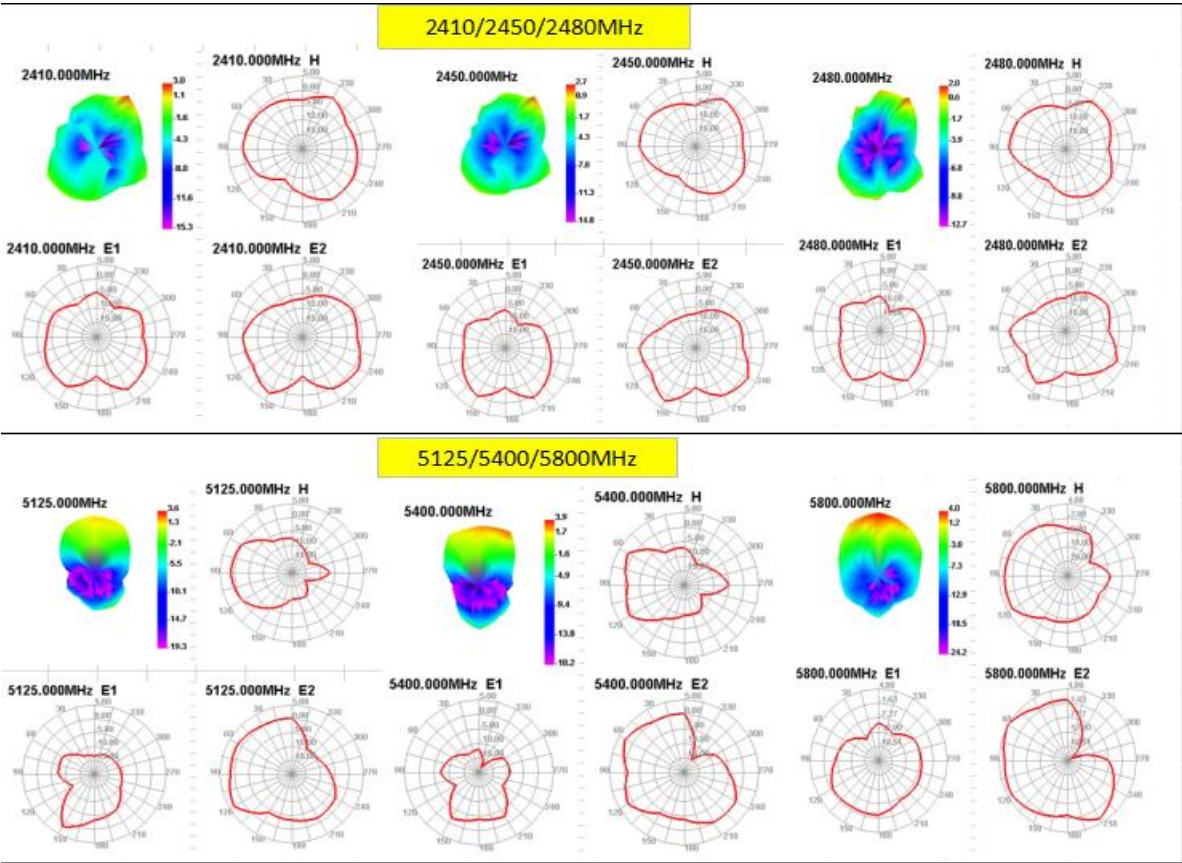
3.2: Antenna efficiency and gain

V5	2400-2500MHZ			5100-5825MHZ					
	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
	2400	55.14	2.59	5100	48.15	3.67	5475	53.58	3.27
	2410	53.27	2.95	5125	48.59	3.64	5500	48.25	3.5
	2420	55.34	2.54	5150	49.34	3.43	5525	48.24	3.25
	2430	59.29	2.33	5175	47.28	3.14	5550	49.13	3.69
	2440	56.41	2.14	5200	46.23	2.78	5575	50.68	3.66
	2450	57.95	2.69	5225	46.36	2.69	5600	51.22	3.68
	2460	54.24	2.34	5250	41.06	2.12	5625	51.8	3.55
	2470	51.69	2.07	5275	45.97	2.54	5650	50.87	3.68
	2480	50.98	2.11	5300	42.2	2.34	5675	50.13	3.93
	2490	50.87	1.86	5325	46.52	2.91	5700	49.58	3.82
	2500	50.28	1.9	5350	44.06	2.99	5725	50.58	3.25
				5375	48.98	2.68	5750	47.68	3.68
				5400	44.12	3.15	5775	47.49	3.25
				5425	46.23	3.14	5800	48.87	4
				5450	48.85	3.28	5825	49.89	2.69

V6	2400-2500MHZ			5100-5825MHZ					
	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
	2400	52.26	3.81	5100	52.96	2.82	5475	47.69	3.21
	2410	50.41	2.98	5125	54.23	2.74	5500	48.12	2.97
	2420	51.26	2.89	5150	52.26	2.7	5525	39.06	2.54
	2430	54.3	2.84	5175	54.21	2.89	5550	42.91	2.68
	2440	51.98	3.05	5200	53.69	2.73	5575	44.98	2.69
	2450	51.36	3.93	5225	51.26	2.99	5600	48.07	2.59
	2460	50.69	2.65	5250	49.69	2.97	5625	49.68	2.64
	2470	50.13	2.25	5275	49.26	3.41	5650	45.54	2.98
	2480	52.65	2.87	5300	49.99	3	5675	46.98	3.02
	2490	52.14	2.36	5325	50.26	3.13	5700	48.29	2.95
	2500	50.36	3.09	5350	50.14	3.1	5725	49.68	2.69
				5375	52.18	3.18	5750	49.54	2.74
				5400	46.9	3.58	5775	48.69	2.84
				5425	45.36	3.09	5800	48.69	2.53
				5450	48.3	3.15	5825	49.67	2.64

3.3: Directional diagram

V5



V6

