



Test Report No.:
FCC2021-0013-EX

TEST REPORT

FCC ID		2AWMK-BTP-MK
Applicant	:	Guangzhou Pinzhong Electronic Technology CO., Ltd.
Product Name	:	BEITONG iOS GAME CONTROLLER EX
Mode No.	:	BTP-iG6

CVC Testing Technology Co., Ltd.

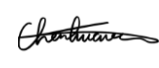
Applicant		Name: Guangzhou Pinzhong Electronic Technology CO., Ltd.	
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Manufacturer		Name: Guangzhou Pinzhong Electronic Technology CO., Ltd.	
		Address: Room 611-612, Greenland Center of Financial City, No. 662, Huangpu Avenue Middle Road, Tianhe District, Guangzhou City, Guangdong Province, China	
Equipment Under Test		Product Name : BEITONG iOS GAME CONTROLLER EX Model No. : BTP-iG6  Trade mark : Serial no. : 430-624-010 Sampling : 1-1	
Date of Receipt.	2021.06.08	Date of Testing	2021.06.08~2021.07.26
Test Specification		Test Result	
FCC Part 2 (Section 2.1093) KDB 447498 D01 IEEE C95.1		PASS	
Evaluation of Test Result		The equipment under test was found to comply with the requirements of the standards applied. Seal of CVC Issue Date: 2021.07.26	
Tested by: Xu Zhenfei 		Reviewed by: Liu Yonghai 	
		Approved by: Chen Huawen 	
Other Aspects: NONE.			
Abbreviations:OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			
This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC .			

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1. General Product Information

1.1 General information

Product Name	BEITONG iOS GAME CONTROLLER EX	
Model No.	BTP-iG6	
Power Supply	Adapter	DC 5V
	Battery	DC 3.7V
Antenna Type	PCB antenna	
Antenna Gain	Antenna 1: 1.5 dBi (provided by client)	
Beamforming gain	Unsupported	
Frequency Range	2402~2480MHz	
Operate Temp.Range	-20°C to +60°C	
Note: 1. The information of the EUT is declared by the manufacturer. 2. The laboratory is not responsible for the product technical specification provided by the client.		

2. Human Exposure Assessment

2.1 RF EXPOSURE DEFINE

The corresponding SAR Exclusion Threshold condition, listed below:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$
 - $f(\text{GHz})$ is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.
- 2) At 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
 - a) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · (f(MHz)/150)] mW, at 100MHz to 1500 MHz
 - b) [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz
- 3) At frequencies below 100 MHz, the following may be considered for SAR test exclusion.
 - a) The threshold at the corresponding test separation distance at 100 MHz in step 2) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ for test separation distances > 50 mm and < 200 mm.
 - b) The threshold determined by the equation in a) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$ for test separation distances ≤ 50 mm.
 - c) SAR measurement procedures are not established below 100 MHz. When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any test results to be acceptable.

2.2 CLASSIFICATION

The antenna of this product, under normal use condition, is at less than 20cm away from the body of the user. So, this device is classified as Portable Device.

3. RF Output Power

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT(DH5)	2402-2480MHz	-1.50	+/-2	-3.50	0.50
BT(2DH5)	2402-2480MHz	-5.00	+/-2	-7.00	-3.00
BT(3DH5)	2402-2480MHz	-4.50	+/-2	-6.50	-2.50

The conducted power turn-up tolerance reference manufacturer specification.

Test Mode	Antenna	Center Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-3.41	<=30	PASS
		2441	-0.1	<=30	PASS
		2480	0.13	<=30	PASS
2DH5	Ant1	2402	-6.45	<=20.97	PASS
		2441	-3.26	<=20.97	PASS
		2480	-3.16	<=20.97	PASS
3DH5	Ant1	2402	-6.46	<=20.97	PASS
		2441	-3.02	<=20.97	PASS
		2480	-2.74	<=20.97	PASS

Note: The relevant measured result has the offset with cable loss already.

4. Test Results

Frequency (MHz)	Maximum source-based time averaged conducted output power (dBm)	Minimum separation distance (mm)	Result of Eq. 1	Limit for 1-g SAR	Limit for 10-g extremity SAR	Verdict
2402-2480	0.50	5	0.353	3.0	7.5	Exempt from SAR

Therefore this device complies with FCC's RF radiation exposure limits for general population without SAR evaluation.