

FCC Test Report

Applicant's name : Shenzhenshi Xingbiaohang Technology Co., Ltd.
3rd Floor, Building C, New Era Gongrong industrial Park, No2 ShihuanRoad,
Address : Shilong Community, Shiyan Street, Baoan District, Shenzhen, Guangdong,
CN(China)
Manufacture's Name : Shenzhenshi Xingbiaohang Technology Co., Ltd.
3rd Floor, Building C, New Era Gongrong industrial Park, No2 ShihuanRoad,
Address : Shilong Community, Shiyan Street, Baoan District, Shenzhen, Guangdong,
CN(China)

Product description

Trader mark : N/A
Product Name: : Decoding Box
Model and/or type reference : CPB-001
Serial Model : CPB-002 (For other models, please refer to page two.)
Rating(s) : DC12V,300mA,3.6W
Standards : FCC 47CFR §2.1091
447498 D04 Interim General RF Exposure Guidance v01
FCC ID : 2BWEJ-CPB001

The EUT described above has been tested by us with the listed standards and found in compliance with the FCC requirements. It is possible to use FCC marking to demonstrate the compliance with this FCC requirements.

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Date of Test

Date (s) of performance of tests : 2026-04-22 ~ 2026-06-16
Date of Issue : 2026-06-16
Test Result : **Pass**

Prepared by: Jide Huang
Project Engineer
Reviewed by: Eason Zhou
Project Supervisor
Approved by: [Signature]
Technical Director

Other models:

CPB-003,CPB-005,CPB-006,CPB-007,CPB-008,CPB-009,CPB-010,CPB-011,CPB-012,CPB-013,CPB-014,
CPB-015,CPB-016,CPB-017,CPB-018,CPB-019,CPB-020,CPB-021,CPB-022,CPB-023,CPB-024,CPB-025,
CPB-026,CPB-027,CPB-028,CPB-029,CPB-030





REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	2026-06-16	Valid	Initial Release



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1. TEST SUMMARY

No.	Test Item	Basic Standard	Requirement	Result
1	Radiofrequency radiation exposure evaluation: mobile devices	Radiofrequency radiation exposure evaluation	47 CFR Part 2.1091	PASS

2. TEST FACILITY

Shenzhen VOP Testing Technology Co., Ltd.

Add:103, Building 5, Wanyan Industrial Park Qiaotou Community, Fuhai Street, Baoan District Shenzhen, Guangdong People's Republic of China

FCC :Designation Number:CN1438,Certificate Number: 7579.01

2.1. Deviation from Standard

None

2.2. Abnormalities from Standard Conditions

None

3. GENERAL INFORMATION

3.1. General Description of EUT

Manufacturer:	Shenzhen Xingbiaohang Technology Co., Ltd.
Manufacturer Address:	3rd Floor, Building C, New Era Gongrong industrial Park, No2 ShihuanRoad, Shilong Community, Shiyan Street, Baoan District, Shenzhen,Guangdong, CN(China)
EUT Name:	Decoding Box
Model No:	CPB-001
Serial Model:	CPB-002,CPB-003,CPB-005,CPB-006,CPB-007,CPB-008,CPB-009,CPB-010,CPB-011,CPB-012,CPB-013,CPB-014,CPB-015,CPB-016,CPB-017,CPB-018,CPB-019,CPB-020,CPB-021,CPB-022,CPB-023,CPB-024,CPB-025,CPB-026,CPB-027,CPB-028,CPB-029, CPB-030
Brand Name:	N/A
Difference Description:	All models are identical to each other except for model name and appearance.
Operation Frequency:	BR_EDR:2402MHz to 2480MHz BLE:2402MHz to 2480MHz 2.4G WLAN:802.11b/g/n(HT20): 2412MHz to 2462MHz; 802.11n(HT40): 2422MHz to 2452MHz 5G WLAN 802.11a/n(HT20)/ac(HT20): U-NII Band 1: 5180MHz to 5240MHz; 802.11n(HT40)/ac(HT40): U-NII Band 1: 5190MHz to 5230MHz; 802.11ac(HT80): U-NII Band 1: 5210MHz;
Antenna type:	External Antenna
Antenna Gain:	BR_EDR/BLE: 3.8 dBi 2.4G WLAN: 3.8 dBi 5G WLAN: 2.39 dBi
Bluetooth Version:	N/A
Hardware Version:	N/A
Software Version:	N/A
Power Supply:	DC12V,300mA,3.6W

Note:

- 1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report. Due to the incorrect antenna information, a series of problems such as the accuracy of the test results will be borne by the customer.

3.2. EUT Test Mode

TM1	TX mode
Note:All above mode have been measurement, only worst data was reported.	

3.3. Auxiliary Equipment Used During Test

No.	Equipment	Manufacturer	Model No.	Serial No.	Remark
1	N/A	N/A	N/A	N/A	N/A



4. TEST RESULTS

4.1. Radiofrequency radiation exposure evaluation: mobile devices

Test Requirement:	47 CFR Part 2.1091						
Test Limit:	For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if: (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A); (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by: $P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$ Where $x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$ and $ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$ d = the separation distance (cm); (C) Or using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value). <table border="1"> <thead> <tr> <th>RF Source frequency (MHz)</th><th>Threshold ERP(watts)</th></tr> </thead> <tbody> <tr> <td>0.3-1.34</td><td>1,920 R².</td></tr> <tr> <td>1.34-30</td><td>3,450 R²/f².</td></tr> </tbody> </table>	RF Source frequency (MHz)	Threshold ERP(watts)	0.3-1.34	1,920 R ² .	1.34-30	3,450 R ² /f ² .
RF Source frequency (MHz)	Threshold ERP(watts)						
0.3-1.34	1,920 R ² .						
1.34-30	3,450 R ² /f ² .						

	30-300	3.83 R ² .
	300-1,500	0.0128 R ² f.
	1,500-100,000	19.2R ² .

4.1.1. Conclusion:

RF Exposure at Separation distance (cm):20								
Mode	Frequency [MHZ]	Conducted Power [dBm]	Manufacturing tolerance		Antenna Gain [dBi]	Max of ERP and Conducted Power including Tune Up		MPE-based exemption threshold Pth [mW]
			Target Power [dBm]	Tolerance [dB]		[dBm]	[mw]	
BR/EDR	2480	9.64	9	1	3.8	11.65	14.62	3060
BLE	2480	8.36	8	1	3.8	10.65	11.61	3060
2.4G WLAM	2412	11.61	11	1	3.8	13.65	23.17	3060
5G WLAM	5180	14.99	15	1	2.39	16.24	42.07	3060
Note:The product does not support simultaneous transmitting								

Note: 1. The Maximum power is less than the limit, complies with the exemption requirements.

****End of the report****