

DewertOKIN Technology Group Co., Ltd.

MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

FP2602

REPORT NUMBER:

240500405SHA-003

ISSUE DATE:

June 20, 2024

DOCUMENT CONTROL NUMBER:

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Applicant: DewertOKIN Technology Group Co., Ltd.
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Zhejiang Province, China

Manufacturer: DewertOKIN Technology Group Co., Ltd.
No.1507, Taoyuan Road, Gaozhao Street, Xiuzhou District, Jiaxing City,
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FCC ID: 2AVJ8-FP2602

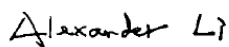
SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

KDB447498 D01 General RF Exposure Guidance v06
FCC Part2.1091, FCC Part2.1093 FCC Part1.1307(b)

PREPARED BY:

REVIEWED BY:



Project Engineer
Alexander Li



Reviewer
Wakeyou Wang

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Revision History

Report No.	Version	Description	Issued Date
240500405SHA-003	Rev. 01	Initial issue of report	June 20, 2024

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Sleep Control Box
Type/Model:	FP2602
Description of EUT:	The appliances covered by this report is sleep control box with Bluetooth function.
Brand name:	/
Rating:	DC 29V
Category of EUT:	Class B
EUT type:	<input type="checkbox"/> Table top <input checked="" type="checkbox"/> Floor standing
Software Version:	/
Hardware Version:	/
Sample identification number:	A240327-17-001
Sample received date:	April 2, 2024
Date of test:	April 2, 2024– May 24, 2024

1.2 Technical Specification

Frequency Range:	2400MHz ~ 2483.5MHz
Support Standards:	Bluetooth LE
Type of Modulation:	GFSK
Channel Number:	40
Data Rate:	1Mbps
Channel Separation:	2 MHz
Antenna Information:	PCB antenna, 1.225dBi Peak gain

TEST REPORT

1.3 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L0139
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

TEST REPORT

2 MPE Assessment

Test result: Pass

2.1 MPE Assessment Limit

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=Frequency in MHz; *Plane-wave equivalent power density

Mobile device exposure for simultaneous transmission operations: **the sum of the MPE ratios for all simultaneously transmitting antennas incorporated in a host device is ≤ 1.0**

TEST REPORT

2.2 Assessment Results

Power density (S) is calculated according to the formula:

$$S = P / (4\pi R^2)$$

Where S = power density in mW/cm²

P = Radiated transmit power in mW

G = numeric gain of transmit antenna

R = distance (cm)

As we can see from the test report 240500405SHA-001:

Radiated Method:

Mode	Frequency band	Field Strength	EIRP	EIRP	R	S	Limits
	(MHz)	(dBuV/m)	(dBm)	(mW)	(cm)	(mW/cm ²)	(mW/cm ²)
BLE	2402-2480MHz	92.6	-2.6	0.55	20	0.00011	1

Note: EIRP= E-95.2

where:

E=electric field strength in dBuV/m.

EIRP= equivalent isotropic radiated power in dBm.

Result: Compliance, the device meets MPE requirement for Devices Used by the General Public (Uncontrolled Environment) at distance ≥ 20 cm.

TEST REPORT

Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of 20 cm or more should be maintained between the antenna of this device and persons during device operation. To ensure compliance, operations at closer than this distance is not recommended.

***** END *****