



FCC RF EXPOSURE REPORT

For

WIFI+BT Module

MODEL NUMBER: CDXT11MF6012, CDXT12MF6012

REPORT NUMBER: 4791682149.1-1-RF-6

FCC ID: 2AC23-CDXT11

ISSUE DATE: August 7, 2025

Prepared for

**Hui Zhou Gaoshengda Technology Co.,LTD
No.6 Qiaoguang Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City,
Guangdong Province, Huizhou, Guangdong, 516227 China**

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

Tel: +86 769 22038881

Fax: +86 769 33244054

Website: www.ul.com

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	August 7, 2025	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD
Address: No.6 Qiaoguang Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, Guangdong Province, Huizhou, Guangdong, 516227 China

Manufacturer Information

Company Name: Hui Zhou Gaoshengda Technology Co.,LTD
Address: No.6 Qiaoguang Road, Chenjiang Street, Zhongkai High-tech Zone, Huizhou City, Guangdong Province, Huizhou, Guangdong, 516227 China

EUT Information

EUT Name: WIFI+BT Module
Model: CDXT11MF6012
Series Model: CDXT12MF6012
Model difference: Please refer to section 4.1
Brand: GSD
Sample Received Date: November 13, 2024
Sample Status: Normal
Sample ID: 8158265
Date of Tested: November 14, 2024 to February 25, 2025

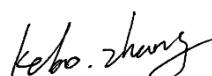
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
447498 D04 Interim General RF Exposure Guidance v01	PASS

Prepared By:



Daniel Zhang
Project Engineer

Checked By:



Kebo Zhang
Senior Project Engineer

Approved By:



Stephen Guo
Operations Manager

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 1 Subpart I, section 1.1307 and KDB 447498 D04 Interim General RF Exposure Guidance v01.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p>
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Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.

4. DESCRIPTION OF EUT

EUT Name		WIFI+BT Module
Model		CDXT11MF6012
Series Model		CDXT12MF6012
Model difference		The CDXT12MF6012 model has the same layout and RF performance as the original CDXT11MF6012, except that the DSP module (Digital signal processing) has been removed from the CDXT12MF6012 model. All these changes do not degrade the unwanted emissions of the certified product. We have pre-test two models and select the worst model CDXT11MF6012 to test and perform in the report.
Product Description (BLE)	Frequency Range:	2402 MHz to 2480 MHz
	Type of Modulation:	GFSK
	Data Rate:	1Mbps/2Mbps
Product Description (BT)	Frequency Range:	2402 MHz to 2480 MHz
	Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
	Type of Modulation:	GFSK, $\Pi/4$ DQPSK, 8DPSK
Product Description (2.4G WLAN)	Frequency Range:	2412 MHz to 2472 MHz
	Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA(1024-QAM, 64-QAM, 16-QAM, QPSK, BPSK)
	Radio Technology:	IEEE 802.11b/g/n HT20/n HT40/ax HE20/ax HE40
Product Description (5G RLAN)	Frequency Range:	5180 MHz to 5320 MHz, 5500 MHz to 5700 MHz, 5745 MHz to 5825 MHz,
	Type of Modulation:	IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM(256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDMA(1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
	Radio Technology:	IEEE802.11a, IEEE802.11n HT20/HT40, IEEE802.11ac VHT20/VHT40/VHT80, IEEE802.11ax HE20/HE40/HE80
Normal Test Voltage:		DC 5 V

5. REQUIREMENT

LIMIT AND CALCULATION METHOD

According to 447498 D04 Interim General RF Exposure Guidance v01,

2.1.4 MPE-Based Exemption

An alternative to the SAR-based exemption is provided in § 1.1307(b)(3)(i)(C), for a much wider frequency range, from 300 kHz to 100 GHz, applicable for separation distances greater or equal to $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. The MPE-based test exemption condition is in terms of ERP, defined as the product of the maximum antenna gain and the delivered maximum time-averaged power.¹⁰ For this case, a RF source is an RF exempt device if its ERP (watts) is no more than a frequency-dependent value, as detailed tabular form in Appendix B. These limits have been derived based on the basic specifications on Maximum Permissible Exposure (MPE) considered for the FCC rules in § 1.1310(e)(1).

MPE-based Exemption

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}}(d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20\text{cm}}$ is per Formula (B.1).

CALCULATED RESULTS

For Single RF Source

Operating Mode	Max. Tune up Power	Max. Antenna Gain	EIRP	ERP	ERP	Distance	Limit Threshold
	(dBm)	(dBi)	(dBm)	(dBm)	(mW)	(cm)	(mW)
BLE	8.50	2	10.50	8.35	6.84	20	3060
BT	12	2	14	11.85	15.31	20	3060
WIFI2.4G	22.50	5	27.50	25.35	342.77	20	3060
WIFI5G	24.10	6	30.10	27.95	623.73	20	3060

Worst case Simultaneous Operations

Operating Mode	ERP	Limit Threshold	Ratio	Sum of Ratios	Limit of Ratios
	(mW)	(mW)			
WIFI 5G	623.73	3060	0.20383	0.20883	1
BT	15.31	3060	0.00500		

Note:

1. The calculated distance is 20 cm.
2. The power comes from operation description.
3. Only WIFI 2.4G & BT/BLE, WIFI 5G & BT/BLE can transmit simultaneously. (declared by client)

END OF REPORT