

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2512002101HS
Applicant: CoreStar Co., Ltd
Address of Applicant: No. 16-3, Shunping 1st St., Xitun Dist., Taichung City 40754, Taiwan, China
Manufacturer: CoreStar Co., Ltd
Address of Manufacturer: No. 16-3, Shunping 1st St., Xitun Dist., Taichung City 40754, Taiwan, China
Factory: Techitory Co., Ltd
Address of Factory: No. 267-1, Sec. 1, Shenlin Rd., Daya Dist, Taichung City, Taiwan, China
Product Name: WLAN +BLE USB Module
Model No.: BL-M8800DU6
Trade Mark: Corestar
Standard(s) : KDB 447498 D01 V06
 47 CFR Part 1.1310
Date of Receipt: 2025-12-30
Date of Evaluation: 2026-04-21
Date of Issue: 2026-05-12

Evaluation Result:	Pass*
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* In the configuration evaluated, the EUT complied with the standards specified above.



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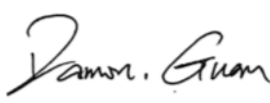
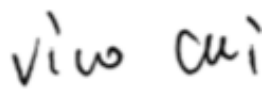
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Revision Record			
Version	Report No.	Date	Remark
01	GZCR251200210105	2026-05-12	Original

Authorized for issue by:			
			
		Damon Guan/Project Engineer	
Approved By			
		Vico Cui/Reviewer	



2 Evaluation Summary

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498 D01 General RF Exposure Guidance v06	KDB447498 D01 General RF Exposure Guidance v06	47 CFR Part 1.1310	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

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4 General Information

4.1 Details of E.U.T.

Power supply: DC 3.3V
 Cable(s): None.
 RF character: Please refer to the report GZCR251200210101 for 2.4GHz Wi-Fi issued by SGS.
 Please refer to the report GZCR251200210102 for 5GHz Wi-Fi issued by SGS.
 Please refer to the report GZCR251200210103 for BT class issued by SGS.
 Please refer to the report GZCR251200210104 for BT BLE issued by SGS.

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
 Guangdong, China 510663

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No tests were sub-contracted.



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4.3 Facility

The facility is recognized, certified, or accredited by the following organizations:

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Technical Requirements Specification

5.1 General Description of Applied Standards

KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.2 RF Exposure Evaluation

5.2.1 Limit & Test Method

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500			f/300	6
1500–100,000			5	6
(B) Limits for General Population/Uncontrolled Exposure				
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

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * P_i * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

P_i = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.



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5.2.2 Conclusion

Normal use condition for Distance
between antenna and body: ≥ 20 declared by applicant

For Bluetooth BLE

Antenna Gain: 3.11 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S)	Test Result
					(mW/cm ²)	
2402	2.046444637	2.28	1.69	0.00069	1.000	Complies
2440	2.046444637	3.22	2.10	0.00085	1.000	Complies
2480	2.046444637	3.65	2.32	0.00094	1.000	Complies

For Bluetooth Classic

Antenna Gain: 3.11 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S)	Test Result
					(mW/cm ²)	
2402	2.046444637	3.30	2.14	0.00087	1.000	Complies
2441	2.046444637	4.29	2.69	0.00109	1.000	Complies
2480	2.046444637	4.70	2.95	0.00120	1.000	Complies

For 2.4 GHz Wi-Fi

Antenna Gain: 3.11 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S)	Test Result
					(mW/cm ²)	
11B						
2412	2.046444637	17.98	62.81	0.02557	1.000	Complies
2442	2.046444637	18.20	66.07	0.02690	1.000	Complies
2462	2.046444637	17.66	58.34	0.02375	1.000	Complies
11G						
2412	2.046444637	19.12	81.66	0.03324	1.000	Complies
2442	2.046444637	20.32	107.65	0.04382	1.000	Complies
2462	2.046444637	19.92	98.17	0.03997	1.000	Complies
11N20						
2412	2.046444637	19.03	79.98	0.03256	1.000	Complies
2442	2.046444637	20.20	104.71	0.04263	1.000	Complies
2462	2.046444637	19.82	95.94	0.03906	1.000	Complies
11N40						
2422	2.046444637	18.23	66.53	0.02708	1.000	Complies
2442	2.046444637	19.49	88.92	0.03620	1.000	Complies
2452	2.046444637	19.47	88.51	0.03603	1.000	Complies



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For 5 GHz Wi-Fi

Antenna Gain: 1.49 dBi

Frequency (MHz)	Antenna Gain (Numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S)	Test Result
					(mW/cm ²)	
11A						
5180	1.409288798	10.06	10.14	0.00284	1.000	Complies
5200	1.409288798	9.93	9.84	0.00276	1.000	Complies
5240	1.409288798	10.69	11.72	0.00329	1.000	Complies
11N20						
5180	1.409288798	9.98	9.95	0.00279	1.000	Complies
5200	1.409288798	10.18	10.42	0.00292	1.000	Complies
5240	1.409288798	11.09	12.85	0.00360	1.000	Complies
11N40						
5190	1.409288798	9.72	9.38	0.00263	1.000	Complies
5230	1.409288798	10.63	11.56	0.00324	1.000	Complies
11AC20						
5180	1.409288798	10.41	10.99	0.00308	1.000	Complies
5200	1.409288798	10.64	11.59	0.00325	1.000	Complies
5240	1.409288798	11.46	14.00	0.00392	1.000	Complies
11AC40						
5190	1.409288798	9.82	9.59	0.00269	1.000	Complies
5230	1.409288798	10.79	11.99	0.00336	1.000	Complies
11AC80						
5210	1.409288798	9.56	9.04	0.00253	1.000	Complies

The Bluetooth and Wi-Fi can be transmitted together, the result is
 $0.00094/1+0.00120/1+0.04382/1+0.00392/1=0.04988<1$, and further test is not required.

Note: Refer to report GZCR251200210101 to GZCR251200210104 for EUT test Max Conducted Peak Output Power value.



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6 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2512002101HS

- End of the Report -



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