



RF EXPOSURE REPORT

Report No.: 20240517G09580X-W3

Product Name: Automotive AI Thermal Master

Model No.: NV300

FCC ID: 2BHGX-NV300

Applicant: Thermal Master Technology Co., Ltd.

Address: Building C, Room 606, Bajiaowan International Science and
Technology Innovation Center, No. 3 Nanchang Street, Guxian
Street, Yantai Area, China (Shandong) Pilot Free Trade Zone

Dates of Testing: 05/31/2024 - 07/19/2024

Issued by: CCIC Southern Testing Co., Ltd.

Lab Location: Electronic Testing Building, No.43, Shahe Road, Xili Street,
Nanshan District, Shenzhen, Guangdong, China.

Tel: 86 755 26627338 **E-Mail:** manager@ccic-set.com

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Test Report

Product.....: Automotive AI Thermal Master

Applicant.....: Thermal Master Technology Co., Ltd.

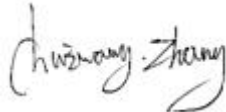
Applicant Address.....: Building C, Room 606, Bajiaowan International Science and Technology Innovation Center, No. 3 Nanchang Street, Guxian Street, Yantai Area, China (Shandong) Pilot Free Trade Zone

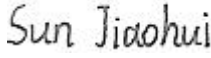
Manufacturer.....: Thermal Master Technology Co., Ltd.

Manufacturer Address.....: Building C, Room 606, Bajiaowan International Science and Technology Innovation Center, No. 3 Nanchang Street, Guxian Street, Yantai Area, China (Shandong) Pilot Free Trade Zone

Test Standards.....: 47 CFR Part 2.1091

Test Result.....: Pass

Tested by:  2024.07.19
Chuiwang Zhang, Test Engineer

Reviewed by.....:  2024.07.19
Sun Jiaohui, Senior Engineer

Approved by.....:  2024.07.19
Chris You, Manager

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Change History		
Issue	Date	Reason for change
1.0	2024.07.19	First edition



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Automotive AI Thermal Master
Device Type	Fixed devices
Frequency Range	WLAN 2.4GHz 802.11b/g/n (HT20/HT40)
Modulation Type	DSSS (802.11b), OFDM (802.11g/n)
Antenna Type	FPC Antenna
Antenna Gain	2.5dBi

Note 1: The information of antenna gain and cable loss is provided by the manufacturer and our lab is not responsible for the accuracy of the antenna gain and cable loss information.

1.2. EUT Description

EUT has been tested according to the following standards.

No.	Identity	Document Title
1	47 CFR Part 1	Practice and Procedure
2	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
3	KDB 447498 D01 General RF Exposure Guidance v06	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
4	OET Bulletin 65 Edition 97-01	Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields

1.3. Laboratory Facilities

FCC-Registration No.: CN1283

CCIC Southern Testing Co., Ltd EMC Laboratory has been registered 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: CN1283, valid time is until Jun. 30th, 2025.

ISED Registration: 11185A

CCIC Southern Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 11185A on Aug. 04, 2016, valid time is until Jun. 30th, 2025.

CAB number: CN0064

A2LA Code: 5721.01

CCIC-SET is a third party testing organization accredited by A2LA according to ISO/IEC 17025. The accreditation certificate number is 5721.01.

1.4. Laboratory Location

Company Name:	CCIC Southern Testing Co., Ltd.
Address:	Electronic Testing Building, No.43, Shahe Road, Xili Street, Nanshan District, Shenzhen, Guangdong, China



2.3. Evaluation Results

Worst-Case mode Conducted Output Power Results for WLAN

Operation Mode	Frequency (MHz)	Maximum Output power (dBm)	Max Tune up power (dBm)	Max Tune up power (mW)
WIFI 802.11b	2412	16.11	16 ± 1	50.12

Calculation results: Worst-Case mode

Operation Mode	Antenna Gain (dBi)	Antenna Gain (numeric)	Distance (cm)	Result (mW/cm ²)	Power Density (mW/cm ²)	Ratio
WIFI 802.11b	2.50	1.78	20	0.018	1.00	0.018

2.4. Conclusion

According to the KDB 447498 D01 General RF Exposure Guidance v06 section 7.2 determine the device is exclusion from SAR test.

**** END OF REPORT ****