

RF EXPOSURE REPORT

FOR

Applicant	:	Lorenz High Definition LLC		
Address	:	230 Rt 206 STE 401, Flanders, New Jersey, United States		
Equipment under Test	:	DC Motor Controller		
Model No.	÷	ZEN53 LR		
Trade Mark	:	zooZ™		
FCC ID	:	2AZ2V-080822-ZEN53		
Manufacturer	•	Shenzhen ZVIDAR Technologies CO,.Ltd.		
Address	:	Room 468, Building F1, TCL Technologies Park, 1001, Zhongshanyuan Road, Shuguang Community, Xili Street Office, Nanshan District, Shenzhen City		

Issued By: Dongguan Dongdian Testing Service Co., Ltd.

Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park,

Dongguan City, Guangdong Province, China, 523808

Tel.: +86-0769-38826678, E-mail: ddt@dgddt.com, http://www.dgddt.com



Dongguan Dongdian Testing Service Co., Ltd

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Test Report Declare

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Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Dongguan Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Dongguan Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No.:	DDT-RE23060512-1E03			
Date of Receipt:	Jun. 05, 2023	Date of Test:	Jun. 07, 2023 ~ Jul. 24, 202	3

Prepared By:

Huang

Jacky Huang/Engineer



Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Dongguan Dongdian Testing Service Co., Ltd.

Dongguan Dongdian Testing Service Co., Ltd

Report No.:DDT-RE23060512-1E03

Revision History

Rev.	Revisions		Issue Date	Revised By
	Initial issue	9	Jul. 25, 2023	8
	07	pp]		7



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1. General Information

1.1. Description of equipment

(B)		(R) (R)
EUT Name	:	DC Motor Controller
Model Number	:	ZEN53 LR
EUT function description	:	Please reference user manual of this device
Power Supply	:	DC 6-32V
Operation Frequency	0	908.40 - 920.00 MHz
Modulation		2FSK, 2GFSK, OQPSK
Antenna Gain	:	-2.80 dBi
Sample Number	:	S23060512-01 for radiated, S23060512-02 for conducted

1.2. Assess laboratory

Dongguan Dongdian Testing Service Co., Ltd. Add.: No. 17, Zongbu Road 2, Songshan Lake Sci&Tech, Industry Park, Dongguan City, Guangdong Province, China, 523808. Tel.: +86-0769-38826678, http://www.dgddt.com, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01 FCC Designation Number: CN1182, Test Firm Registration Number: 540522 Innovation, Science and Economic Development Canada Site Registration Number: 10288A Conformity Assessment Body identifier: CN0048 VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure evaluation for FCC

According to 447498 D01 General RF Exposure Guidance v06

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

 $f(\mbox{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

Manufacturing Tolerance

Channel (MHz)	908.40	908.42	912	916	920
Target (dBm)	-8.53*	-8.47*	3.55	-8.39*	3.49
Tolerance ±(dB)	1.5	1.5	1.5	1.5	1.5

Note: * The results of dBm are calculate according to ANSI C63.10-2020 section 12.7.3 d) and e) and the results of dB μ V/m are quoted from report: DDT-RE23060512-1E01.

Estimation Result

Worse case is as below: [912.00 MHz, 5.05 dBm, (3.20 mW) output power] $(3.20/5) \cdot [\sqrt{0.912(GHz)}] = 0.61 < 3.0$ for 1-g SAR Then SAR evaluation is not required.

END OF REPORT