FCC TEST REPORT

FCC ID: 2AZ2VZEN72

Product	:	DIMMER SWITCH 800
Model Name	:	ZEN72 800LR
Brand	:	ZOOZ
Report No.	:	PTC23053109502E-FC02

Prepared for

Lorenz High Definition LLC

230 Rt 206,STE 401,Flanders, NJ 07836,United States

Prepared by

Precise Testing & Certification Co., Ltd.

Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.

TEST RESULT CERTIFICATION

Applicant's name	:	Lorenz High Definition LLC
Address	:	230 Rt 206 STE 401, Flanders, NJ 07836, United States
Manufacture's name	:	Lorenz High Definition LLC
Address	:	230 Rt 206 STE 401, Flanders, NJ 07836, United States
Product name	:	DIMMER SWITCH 800
Model name	:	ZEN72 800LR
Test procedure	:	FCC CFR47 Part 1.1307(b)(1)
Test Date	:	Apr. 18, 2023 to Jun. 05, 2023
Date of Issue	:	Jun. 05, 2023
Test Result	:	PASS

This device described above has been tested by PTC, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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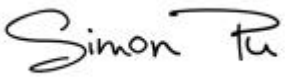
Test Engineer:



Simon Pu / Engineer

Technical Manager:

Ronnie Liu / Manager

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2 Test Summary

Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS
Remark:		
N/A: Not Applicable		

3 General Information

3.1 General Description of E.U.T.

Product Name	:	DIMMER SWITCH 800
Model Name	:	ZEN72 800LR
Additional model	:	N/A
Operation Frequency	:	908.40MHz 908.42MHz 916.00MHz 912 MHz 920 MHz
Type of Modulation	:	FSK
Antenna installation	:	Internal permanent antenna
Antenna Gain	:	-3.9 dBi
Power supply	:	AC 125V/60Hz 500W
Hardware Version	:	1.0
Software Version	:	1.0

4 RF Exposure

Test Requirement : FCC Part 1.1307(b)(1)

Evaluation Method : KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	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

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

4.3 MPE Calculation Method

E (V/m) = $\frac{\sqrt{30 \times P \times G}}{d}$ Power Density: Pd (W/m²) = $\frac{E^2}{377}$

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

Pd = $\frac{30 \times P \times G}{377 \times d^2}$ θφ

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Manufacturing tolerance

Freq. (MHz)	Field strength(max)(dBuV/m)	EIRP (max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]
908.40	90.15	-5.05	-5.00±1	-4.00
908.42	79.78	-15.42	-15.00±1	-14.00
912.00	90.19	-5.01	-5.00±1	-4.00
916.00	89.99	-5.21	-5.00±1	-4.00
920.00	89.71	-5.49	-5.00±1	-4.00

Note: EIRP=E-104.8+20logD,
Where
E is the electric field strength in dBμV/m
EIRP is the equivalent isotropically radiated power in dBm
d is the specified measurement distance in m
where D=3, EIRP=E-95.2.

4.5 Test Result

Mode	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
Max Power	0.41	-4.0	0.398107	0.000032	0.601333	Pass

********THE END REPORT********