

FCC RF EXPOSURE REPORT

CERTIFICATION TEST REPORT

For

Notion Chime Bridge

MODEL NUMBER: N102CU

REPORT NUMBER: 4790489019-1-RF-3

ISSUE DATE: December 27, 2023

FCC ID: 2AB2Q-N102CU

Prepared for

LEEDARSON LIGHTING CO., LTD.

Xingda Road, Xingtai Industrial Zone, Changtai County, Zhangzhou, Fujian, China

Prepared by

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Revision History

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V0	December 27, 2023	Initial Issue	



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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: LEEDARSON LIGHTING CO., LTD.
Address: Xingda Road, Xingtai Industrial Zone, Changtai County,
Zhangzhou, Fujian, China

Manufacturer Information

Company Name: LEEDARSON LIGHTING CO., LTD.
Address: Xingda Road, Xingtai Industrial Zone, Changtai County,
Zhangzhou, Fujian, China

EUT Information

EUT Name: Notion Chime Bridge
Model: N102CU
Sample Received Date: September 26, 2023
Sample Status: Normal
Sample ID: 6588357
Date of Tested: September 26, 2023 to December 27, 2023, 2023

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47CFR§2.1091	PASS

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 and KDB447498D01v06.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	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. 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 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. VCCI (Registration No.: G-20192, C-20153, T-20155 and R-20202) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20192 and R-20202 Shielding Room B, the VCCI registration No. is C-20153 and T-20155
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Note: 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.



4. DESCRIPTION OF EUT

EUT Name:		Notion Chime Bridge
Model:		N102CU
Product Description (2.4G WLAN)	Frequency Range:	2412 MHz to 2462 MHz
	Type of Modulation:	IEEE 802.11b: DSSS(CCK, DQPSK, DBPSK) IEEE 802.11g/n: OFDM(64-QAM, 16-QAM, QPSK, BPSK)
	Radio Technology:	IEEE802.11b/g, IEEE802.11n HT20/n HT40
Product Description (900M)	Transmit Frequency Range	904 MHz ~ 926 MHz
	Modulation	OQPSK
	Bit Rate	100 kbps
Normal Test Voltage:		AC 120 V, 60 Hz

5. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

**RF EXPOSURE LIMIT**

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (Minutes)
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

CALCULATION METHOD

$$S = PG / 4\pi R^2$$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

**CALCULATED RESULTS**

Worst Case					
Mode	Max Tune Up Power	Antenna Gain	Power Density	Power Density Limit	Test Result
	dBm	dBi	mW/cm ²	mW/cm ²	--
WIFI 2.4G	17	2.04	0.01595	1.0	Complies

Worst Case					
Mode	Max Tune Up Power	Antenna Gain	Power Density	Power Density Limit	Test Result
	dBm	dBi	mW/cm ²	mW/cm ²	--
900M	17	-1.49	0.00708	0.6	Complies

Worst Mode				
Maximum 900M Power Density/ Limit(mW/cm ²)	Maximum 2.4G WLAN Power Density/ Limit(mW/cm ²)	Σ (Power Density /Limit(mW/cm ²)) of 900M + 2.4G WLAN	Limit (mW/cm ²)	Test Result
0.0118	0.01595	0.02775	1.0	Complies
900M MPE /0.6+2.4G WLAN /1.0<1.0				

Note:

1. The Power comes from report operation description.
2. The minimum separation distance of the device is greater than 20 cm, and 20cm separation distance was set for calculation.
3. Calculate by WORST-CASE mode.

Therefor the maximum calculations of above situations are less than the “1” limit.

END OF REPORT