



RF EVALUATION TEST REPORT

Applicant.....: :Shenzhen DXC Technology Co., LTD

Minzhi St, Longhua Dist, Shenzhen City, Guangdong, China

Manufacturer.....: Shenzhen DXC Technology Co., LTD

Address.....: :301-D6, Wisdom Valley Innovation PLZ, 542 Minzhi Ave, Xinniu Community,

Minzhi St, Longhua Dist, Shenzhen City, Guangdong, China

Factory.....: :HUI ZHOU SHUANG HAO ELECTRONICS TECHNOLOGY CO.,LTD

Address......: 3F, Bldg A3, Yidong Industrial Park, Yuanhui Road, Chenjiang Town, Huicheng

district, Huizhou city, Guangdong Province, China

Product Name.....REMOTE BULB

Brand Name.....



Model No.:B01A, B01B, B01C, B01D, B01E, B01F (For model difference refer to section 2)

FCC ID.....: :2BC7D-B01A

Measurement Standard......: 47 CFR PART 2, Section 2.1091

Receipt Date of Samples.... : October 13, 2023

Date of Report...... November 03, 2023

This report shows that above equipment is technically compliant with the requirements of the standards above.

All test results in this report apply only to the tested sample(s). Without prior written approval of Dongquan Nore

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Prepared by

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Revision History

Report Number	Description	Issued Date	
NTC2310088F01	Initial Issue	2023-11-03	





1. General Description of EUT

Product Information					
Product name:	REMOTE BULB				
Main Model Name:	B01A				
Additional Model Name:	B01B, B01C, B01D, B01E, B01F				
Model Difference:	These models have the same circuit schematic, construction, PCB Layout and critical				
	components. The differences are model number, parameters of current sense				
	resistor (R8, R9) and voltage adjusting resistor (R5), LED type, and power due to				
	trading purpose.				
S/N:	2310-4813				
Brand Name:	DELIGHT 会星照明				
Hardware version:	Not stated				
Software version:	Not stated				
Rating:	AC 100-245V, 50/60Hz				
	12W for model B01A, B01D;				
	9W for model B01B, B01E;				
	7W for model B01C, B01F				
Typical arrangement:	Table-top				
I/O Port:	Refer to user manual				
Accessories Information					
Adapter:	N/A				
Cable:	N/A				
Other:	N/A				





Additional Information	
Note:	According to these model differences, all tests were performed on model B01A.
Remark:	All the information above are provided by the manufacturer. More detailed feature of
	the EUT please refers to the user manual.

Technical Specification (2.4G Function)			
Frequency Range:	2426MHz		
Modulation Type:	GFSK		
Number of Channel:	1		
Antenna Type:	Wire Antenna		
Antenna Gain:	2.51 dBi (Declared by manufacturer)		





2. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)			
Accreditations and	:	The Laboratory has been assessed and proved to be in compliance with			
Authorizations		CNAS/CL01			
		Listed by CNAS, August 13, 2018			
		The Certificate Registration Number is L5795.			
		The Certificate is valid until August 13, 2024			
		The Laboratory has been assessed and proved to be in compliance with ISO17025			
		Listed by A2LA, November 01, 2017			
		The Certificate Registration Number is 4429.01			
		Listed by FCC, November 06, 2017			
		Test Firm Registration Number: 907417			
		Listed by Industry Canada, June 08, 2017			
		The Certificate Registration Number. Is 46405-9743A			
Test Site Location	:	Building D, Gaosheng Science and Technology Park, Hongtu Road, Nancheng			
		District, Dongguan City, Guangdong Province, China			

3. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 1, 1.1307 47 CFR Part 2, 2.1091 KDB 447498 D04 v01



4. Maximum Permissible Exposure Limit

According to 47 CFR Part 1, 1.1307, for single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if: 47 CFR Part 1, 1.1307

- (A) The available maximum time- averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time- averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \; (\text{mW}) = \begin{cases} ERP_{20\;cm} (d/20\;\text{cm})^x & d \leq 20\;\text{cm} \\ \\ ERP_{20\;cm} & 20\;\text{cm} < d \leq 40\;\text{cm} \end{cases}$$

Where.

$$x = -\log_{10}\left(\frac{60}{ERP_{20\ cm}\sqrt{f}}\right)$$
 and f is in GHz;

And,

$$ERP_{20\;cm}\;({\rm mW}) = \begin{cases} 2040f & 0.3\;{\rm GHz} \le f < 1.5\;{\rm GHz} \\ \\ 3060 & 1.5\;{\rm GHz} \le f \le 6\;{\rm GHz} \end{cases}$$

d = the minimum separation distance (cm) in any direction from any part of the device antenna(s) or radiating structure(s) to the body of the device user.

For multiple RF sources: Multiple RF sources are exempt if:



- (A) The available maximum time- averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters be-tween any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).
- (B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Where,

a = number of fixed, mobile, or portable RF sources claiming exemption using para-graph (b)(3)(i)(B) of this section for P_{th}, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using para-graph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or port-able RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

P_i= the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

 $P_{th,i}$ = the exemption threshold power (Pth) ac-cording to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERP;= the ERP of fixed, mobile, or portable RF source j.

 $ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of this section.



 $Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limit_k= either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from $\S1.1310$ of this chapter.

5. RF Exposure Evaluation Results

Single RF Source							
Mode Frequency Max. EIRP (dBm)		Max. ERP (dBm)	Max. ERP (mW)	Separation Distance (cm)	Part 1.1307 Option (B) P _{th} (mW)		
GFSK	2426	-2.9276	-5.0776	0.31	20	3060	

EIRP = E +20log d - 104.8

where d is the measurement distance = 3m, E=92.33dBuv/m

Conclusion:

According to 47 CFR $\S1.1307$ (b)(3)(i)(B), the RF exposure analysis concludes that the product is compliant with the FCC RF exposure requirements in portable exposure condition.