

## RF Exposure Evaluation Report

**Product** : Electronic Smart Key  
**Trade mark** : N/A  
**Model/Type reference** : G3-3791200A-D1  
**Test Model No.:** : G3-3791200A-D1  
**Serial Number** : N/A  
**Report Number** : EED32O80786302  
**FCC ID** : 2A5DHG3-3791200A-D1  
**Date of Issue** : Jul. 08, 2022  
**Test Standards** : 47 CFR Part 1.1307  
47 CFR Part 2.1093  
KDB447498D01 General  
RF Exposure Guidance v06  
**Test result** : PASS

Prepared for:

**FinDreams Technology Company Limited**  
NO.3001~3009, Hengping Road, Pingshan New District, Shenzhen,  
Guangdong, P.R.China

Prepared by:

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## 1 Version

Version No.	Date	Description
00	Jul. 08, 2022	Original

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### 3 General Information

#### 3.1 Client Information

Applicant:	FinDreams Technology Company Limited
Address of Applicant:	NO.3001~3009, Hengping Road, Pingshan New District, Shenzhen, Guangdong, P.R.China
Manufacturer:	FinDreams Technology Company Limited
Address of Manufacturer:	NO.3001~3009, Hengping Road, Pingshan New District, Shenzhen, Guangdong, P.R.China
Factory:	Electric Appliance Factory
Address of Factory:	No.1, West Qinling Avenue, Science and Technology Industrial Park, Caotang Town, High-tech Zone, Xi'an

#### 3.2 General Description of EUT

Product Name:	Electronic Smart Key	
Model No.:	G3-3791200A-D1	
Trade Mark:	N/A	
Product Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location	
Frequency Range:	433.92MHz	
Modulation Type:	ASK	
Number of Channels:	1	
Antenna Type:	PCB antenna	
Antenna Gain:	-18dBi	
Power Supply:	Battery:	DC 3.0V
Test voltage:	DC 3.0V	
Sample Received Date:	Jun. 09, 2022	
Sample tested Date:	Jun. 09, 2022 to Jun. 26, 2022	
Remark:	<p>1.N/A:The product is powered by DC3.0V Battery.</p> <p>2.Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.</p>	

### 3.3 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

### 3.4 Deviation from Standards

None.

### 3.5 Abnormalities from Standard Conditions

None.

### 3.6 Other Information Requested by the Customer

None.

## 4 SAR Evaluation

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06  
Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### Limits

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:

$$\left[ \frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

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

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion



## 4.1.2 EUT RF Exposure

$$e_{\text{irp}} = p_t \times g_t = (E \times d)^2 / 30$$

where:

$p_t$  = transmitter output power in watts,

$g_t$  = numeric gain of the transmitting antenna (unitless),

$E$  = electric field strength in V/m,  $10^{((\text{dB}\mu\text{V}/\text{m})/20)/10^6}$ ,

$d$  = measurement distance in meters (m)---3m,

$$\text{So } p_t = (E \times d)^2 / 30 / g_t$$

The worst case (refer to report EED32O80786301) is below:

Antenna polarization: Horizontal		
Frequency (MHz)	Level (dBuV/m)	Polarization
433.92	75.03	Peak
433.92	66.30	Average

Antenna polarization: Vertical		
Frequency (MHz)	Level (dBuV/m)	Polarization
433.92	67.48	Peak
433.92	58.75	Average

For 433.92MHz wireless:

Field strength = 75.03dB $\mu$ V/m @3m

Ant. gain -18dBi; so Ant numeric gain=0.016

So  $p_t = \{ [10^{(75.03 / 20)} / 10^6 \times 3]^2 / 30 / 0.016 \} \times 1000\text{mW} = 0.597\text{mW}$

So  $(0.597\text{mW} / 5\text{mm}) \times \sqrt{0.43392\text{GHz}} = 0.0787$ ,

0.0787 < 3.0 for 1-g SAR

So the SAR report is not required.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

\*\*\* End of Report \*\*\*