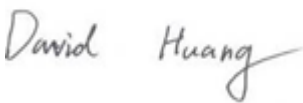


RF EXPOSURE REPORT



Report No.: 17070297-FCC-H2-V2

Supersede Report No.: N/A

Applicant	Remote Solution co.,Ltd	
Product Name	REMOTE CONTROL UNIT	
Model No.	CRB36	
Serial No.	N/A	
Test Standard	FCC 2.1093:2016	
Test Date	June 07 to June 21, 2017	
Issue Date	June 30, 2017	
Test Result	☒ Pass ☐ Fail	
Equipment complied with the specification ☒		
Equipment did not comply with the specification ☐		
		
Leen Yang Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park

South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108

Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn

Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

Test Report	17070297-FCC-H2-V2
Page	3 of 8

This page has been left blank intentionally.

CONTENTS

1. REPORT REVISION HISTORY	5
2. CUSTOMER INFORMATION.....	5
3. TEST SITE INFORMATION	5
4. EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5. FCC §2.1093 - RADIOFREQUENCY RADIATION EXPOSURE EVALUATION: PORTABLE DEVICES.	7
5.1 RF EXPOSURE.....	7
5.2 TEST RESULT	8

1. Report Revision History

Report No.	Report Version	Description	Issue Date
17070297-FCC-H2	NONE	Original	June 22, 2017
17070297-FCC-H2-V1	V1	Changed the Applicant address	June 29, 2017
17070297-FCC-H2-V2	V2	Changed the FCC ID	June 30, 2017

2. Customer information

Applicant Name	Remote Solution co.,Ltd
Applicant Add	92, Chogokri,Nammyun,Kimchon City, Kyungbuk,South Korea
Manufacturer	Remote Solution HK Ltd
Manufacturer Add	No.7,6 Road, Gaoli Industrial Zone, Tangxia Town, Dong guan City, China

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

4. Equipment under Test (EUT) Information

Description of EUT: REMOTE CONTROL UNIT

Main Model: CRB36

Serial Model: N/A

Date EUT received: June 06, 2017

Test Date(s): June 07 to June 21, 2017

Antenna Gain: 0 dBi

Antenna Type: PCB antenna

Type of Modulation: QPSK

RF Operating Frequency (ies): 2425-2475 MHz

Number of Channels: 25CH

Port: N/A

Input Power: DC: 3V

Trade Name : N/A

FCC ID: TX4CRB36C

5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

5.1 RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), 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 level in excess of the Commission's guidelines.

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

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{\text{(GHz)}}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ where

- $f_{\text{(GHz)}}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 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.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

$$\text{result} = P \sqrt{F} / D$$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm

5.2 Test Result

ZigBee Mode:

Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2425	3.308	2.5±1	3.5	2.239	0.69	3
	Mid	2450	3.438	2.5±1	3.5	2.239	0.70	3
	High	2475	2.572	2.5±1	3.5	2.239	0.71	3

Result: Compliance

No SAR measurement is required.