

EMF TEST REPORT

Test Report No. : OT-237-RWD-008

Reception No. : 2305001521

Applicant : Remote Solution Co.,Ltd.

Address : 92, Chogokri Nammyun, Kimchon City, Kyungbuk, Korea

Manufacturer : Remote Solution Co.,Ltd.

Address : 92, Chogokri Nammyun, Kimchon City, Kyungbuk, Korea

Type of Equipment : BLE REMOTE CONTROLLER

FCC ID. : TX4RD48D

Model Name : XR100-RQ

Multiple Model Name : N/A

Serial number : N/A

Total page of Report : 6 pages (including this page)

Date of Incoming : June 14, 2023

Date of issue : July 06, 2023

SUMMARY

The equipment complies with the regulation; **FCC CFR 47 PART 2.1093**

This test report only contains the result of a single test of the sample supplied for the examination.

It is not a generally valid assessment of the features of the respective products of the mass-production.

This report is not correlated with the "KS Q ISO/IEC 17025 and KOLAS accreditation" of Korean Laboratory Accreditation Scheme.



Tested by
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Revision History

Rev. No.	Issue Report No.	Issued Date	Revisions	Section Affected
0	OT-237-RWD-008	July 06, 2023	Initial Release	All

* Please contact us (e-mail: info@onetech.co.kr) for verification of this test report.

1. VERIFICATION OF COMPLIANCE

Applicant : Remote Solution Co.,Ltd.

Address : 92, Chogokri Nammyun, Kimchon City, Kyungbuk, Korea

Contact Person : Byung-Cheol Kim / Manager

Telephone No. : +82-54-420-4517

FCC ID : TX4RD48D

Model Name : XR100-RQ

Brand Name : XUMO / COMCAST / REMOTESOLUTION

Serial Number : N/A

Date : July 06, 2023

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	BLE REMOTE CONTROLLER
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	KDB 447498 D01 General RF Exposure Guidance v06
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
Modifications on the Equipment to Achieve Compliance	None

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. GENERAL INFORMATION

2.1 Product Description

The Remote Solution Co.,Ltd., Model XR100-RQ (referred to as the EUT in this report) is a BLE REMOTE CONTROLLER. The product specification described herein was obtained from product data sheet or user's manual.

DEVICE TYPE	BLE REMOTE CONTROLLER
OPERATING FREQUENCY	2 402 MHz ~ 2 480 MHz
MODULATION TYPE	DSSS Modulation (GFSK)
RF OUTPUT POWER	2.74 dBm
NUMBER OF CHANNEL	40 Channel
ANTENNA TYPE	PCB Antenna
ANTENNA GAIN	2.15 dBi
Electrical Rating	DC 3.0 V
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	32 MHz

2.2 Alternative type(s)/model(s); also covered by this test report.

-. None

3. EUT MODIFICATIONS

-. None

4. RF EXPOSURE EVALUATION

4.1 RF Exposure Calculation

According to the FCC rule §4.3. General SAR test exclusion guidance, the limit for 1-g and 10-g SAR test exclusion thresholds are ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR by the device operating 100 MHz to 6 GHz and test separation distances ≤ 50 mm

4.2 EUT Description

Kind of EUT	BLE REMOTE CONTROLLER
Device Category	☒ Portable (< 20 cm separation) ☐ Mobile (> 20 cm separation) ☐ Others
Exposure Evaluation Applied	☐ MPE ☐ SAR ☒ N/A

4.3 Test Result

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW})/(\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3.0$$

$$= [(2.37/5)] \times \sqrt{2.480} = 0.745$$

4.3.1 Test data for Bluetooth LE

Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
2 480.00	2.74 ± 1.0	3.74	2.37	5	0.745