



TEST REPORT

Product Name: LoRa Module

Trademark:   安信可科技
Ai-Thinker

Model Number: Ra-01SC

Prepared For: Shenzhen Ai-Thinker Technology Co., Ltd

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Sample Received Date: May. 15, 2021

Sample tested Date: May. 15, 2021 - May. 26, 2021

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Report No.: CTB210527021RHX

Test Standards: EN 62479:2010

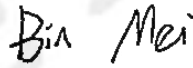
Test Results: PASS

Remark: This is SRD-433MHz Health test report.

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Approved by:

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1. VERSION

Report No.	Issue Date	Description	Approved
CTB210527021RHX	Jul. 5, 2021	Original	Valid

2. GENERAL INFORMATION

2.1 Product Information

Model(s):	Ra-01SC
Model Description:	N/A
Hardware Version:	V1.1
Software Version:	V1.1
SRD:	433.92MHz
Type of Modulation:	Lora
Antenna installation:	Internal Antenna
Antenna Gain:	0dBi
Ratings:	DC 5V from PC

3. Health Requirements

3.1 Limits

According to Council Recommendation: the criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

Reference levels for electric, magnetic and electromagnetic fields (10MHz to 300GHz)

Low-power electronic and electrical equipment is deemed to comply with the provisions of this standard if it can be demonstrated using routes B, C or D that the available antenna power and/or the average total radiated power is less than or equal to the applicable low-power exclusion level P_{max} .

Annex A contains example values for P_{max} derived from existing exposure limits listed in the bibliography, such as the ICNIRP guidelines [1], IEEE Std C95.1-1999 [2], and IEEE Std C95.1-2005 [3].

For wireless devices operated close to a person's body with available antenna powers and/or average total radiated powers higher than the P_{max} values given in Annex A, the alternative P_{max} values (called P_{max}'), described in Annex B can also be used.

For low power equipment using pulsed signals, other limits may apply in addition to those considered in Annex A and Annex B. Both ICNIRP guidelines [1] and IEEE standards [2], [3] have specific restrictions on exposures to pulsed fields, and the requirements of those standards with respect to exposure to pulses shall be met. Annex C discusses this topic further.

Exposure tier	Region of body	Exclusion level P_{max}
General public	Head and trunk	20mW(13dBm)
General public	Limbs	40mW(16dBm)

3.2 Exposure Evaluation

Mode	The worst e.i.r.p. (dBm)	Pmax(dBm)	Result
SRD	4.526	13	PASS
Remark: 1, refer to RF test report for e.i.r.p. 2, After performed the test at low/middle/high channel, the record is the worst.			