TEST REPORT

EN IEC 62311:2020

Report Reference No. ..... :	**HK2305242105-2EH**
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Supervised by (position+printed name+signature) . :	Technique principal Sliver Wan
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Date of issue ..... :	2023/06/02
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Applicant's name ..... :	Shenzhen Cudy Technology Co., Ltd.
Address ..... :	Room A606, Gaoxinqi Industrial Park, Liuxianyi Road, Baoan District, Shenzhen, China
Test specification:	
Standard ..... :	**EN IEC 62311:2020**
TRF Originator ..... :	Shenzhen HUAK Testing Technology Co., Ltd.
Master TRF ..... :	Dated 2019-07

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Test item description .....:	AC1200 Dual Band Wi-Fi Range Extender
Trade Mark ..... :	cudy
Model/Type reference ..... :	RE1200
Listed Models ..... :	RE400
Hardware Version..... :	1.0
Software Version ..... :	1.15.21
Rating ..... :	AC 100-240V, 50/60Hz
Result ..... :	**PASS**

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TEST REPORT

Test Report No. :	HK2305242105-2EH	2023/06/02 Date of issue

Equipment under Test	:	AC1200 Dual Band Wi-Fi Range Extender
Model /Type	:	RE1200
Listed Models	:	RE400
Applicant	:	Shenzhen Cudy Technology Co., Ltd.
Address	:	Room A606, Gaoxinqi Industrial Park, Liuxianyi Road, Baoan District, Shenzhen, China
Manufacturer	:	Shenzhen Cudy Technology Co., Ltd.
Address	:	Room A606, Gaoxinqi Industrial Park, Liuxianyi Road, Baoan District, Shenzhen, China

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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2022/01/13	Jason Zhou
Revision 2.0	Only change power port, no affect test. All test data were obtained from: HK2112295050-2EH.	2023/06/02	Jason Zhou

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1. GENERAL INFORMATION

1.1 GENERAL REMARKS

Date of receipt of test sample	:	2021/12/29
Testing commenced on	:	2021/12/29
Testing concluded on	:	2022/01/13

1.2 GENERAL DESCRIPTION OF EUT

Equipment	AC1200 Dual Band Wi-Fi Range Extender
Model Name.	RE1200
Serial Model	RE400
Difference descrption	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: RE1200.
Product Description	The EUT is AC1200 Dual Band Wi-Fi Range Extender. 2.4G WIFI Operation Frequency: IEEE 802.11b/g/n20 2412-2472MHz IEEE 802.11 n40 2422-2462MHz Modulation Type: DSSS,OFDM Antenna Designation: External Antenna Antenna Gain(Peak) 1.0dBi 5G 5150-5250: Operation Frequency: IEEE 802.11a:5180MHz-5240MHz IEEE 802.11n HT20/IEEE 802.11ac HT20:5180MHz-5240MHz IEEE 802.11n HT40/IEEE 802.11ac HT40:5190MHz-5230MHz IEEE 802.11ac HT80:5210MHz Modulation Type: IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac HT20: OFDM (256QAM, 64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac HT40: OFDM (256QAM, 64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac HT80: OFDM (256QAM, 64QAM, 16QAM, QPSK,BPSK) Antenna Designation: External Antenna Antenna Gain(Peak) 1.0dBi Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.
Channel List	Refer to below
Hardware Version	1.0
Software Version	1.15.21

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2.EN IEC 62311 REQUIREMENT

2.1 GENERAL INFORMATION

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

EN IEC 62311:2020 [Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)]

2.2 LIMIT

A. Typical usage, installation and the physical characteristics of equipment make it inherently compliant with the applicable EMF exposure levels such as those listed in the bibliography. This low-power equipment includes unintentional (or non-intentional) radiators, for example incandescent light bulbs and audio/visual (A/V) equipment, information technology equipment (ITE) and multimedia equipment (MME) that does not contain radio transmitters.

NOTE Equipment is described as A/V equipment, ITE or MME if its main use is playback/recording of music, voice or images, or processing of digital information.

B. The input power level to electrical or electronic components that are capable of radiating electromagnetic energy in the relevant frequency range is so low that the available antenna power and/or the average total radiated power cannot exceed the low-power exclusion level defined in 4.2.

C. The available antenna power and/or the average total radiated power are limited by product standards for transmitters to levels below the low-power exclusion level defined in 4.2.

D. Measurements or calculations show that the available antenna power and/or the average total radiated power are below the low-power exclusion level defined in 4.2.

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3. RESULT

3.1 Summary of Results

Limit (W/ m²)	Result (W/ m²)	Verdict
10	0.358	passed

3.2 MPE Evaluation

$S = PG / 4\pi R^2$

P = Power input to antenna

G = Antenna Gain

R = distance to the center of radiation of antenna (in meter) = 0.2 m

π=3.142

The maximum power density at a distance of 0.2 m for EUT is shown as below:

Operation Mode	Max. Conducted Power (W)	R (m)	Max. EIRP (W)	Limit (W/m2)	Conclusion
2.4GWIFI	0.094	0.2	0.188	10	PASS
5150-5250	0.179	0.2	0.358	10	PASS

3.3 Measurement Uncertainty

Extended Uncertainty (k=2) 95% 0.5dB

.....End of Report.....

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