



## TEST REPORT EN IEC 62311:2020

Report Reference No.: HK2312075949-2EH

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Jason Zhou

Date of issue : 2023/12/18

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Applicant's name: EDA Technology Shanghai Co., Ltd.

Address : Building 29, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Test specification :

Standard : EN IEC 62311:2020

TRF Originator: Shenzhen HUAKE Testing Technology Co., Ltd.

Master TRF: Dated 2020-05

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Product Name : ED-IPC2000

Trade Mark : EDA

Product Model : ED-IPC2010

Serial Model: ED-IPC2020

Hardware Version: V1.1

Software Version : V2.0

Ratings : DC 9-28V

Result : Pass



## TEST REPORT

Test Report No. :

HK2312075949-2EH

2023/12/18

Date of issue

Product Name : ED-IPC2000

Product Model : ED-IPC2010

Serial Model : ED-IPC2020

Applicant : EDA Technology Shanghai Co., Ltd.

Address : Building 29, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

Manufacturer : EDA Technology Shanghai Co., Ltd.

Address : Building 29, No.1661 Jialuo Road, Jiading District, Shanghai, PRC



**\*\* Modified History \*\***

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2023/12/18	Jason Zhou



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**1. GENERAL INFORMATION****1.1 GENERAL REMARKS**

Date of receipt of test sample	:	2023/12/07
Testing commenced on	:	2023/12/07
Testing concluded on	:	2023/12/18

**1.2 GENERAL DESCRIPTION OF EUT**

Equipment	ED-IPC2000																																
Model Name	ED-IPC2010																																
Serial Model	ED-IPC2020																																
Difference description	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: ED-IPC2010.																																
Product Description	<p>The EUT is ED-IPC2000.</p> <p>BT-BLE:</p> <table><tr><td>Operation Frequency:</td><td>2402 MHz ~ 2480 MHz</td></tr><tr><td>Modulation Type:</td><td>GFSK</td></tr><tr><td>Antenna Designation:</td><td>External Antenna</td></tr><tr><td>Antenna Gain(Peak)</td><td>2 dBi</td></tr></table> <p>BT-EDR</p> <table><tr><td>Operation Frequency:</td><td>2402 MHz ~ 2480 MHz</td></tr><tr><td>Modulation Type:</td><td>GFSK, <math>\pi/4</math>DQPSK, 8DPSK</td></tr><tr><td>Antenna Designation:</td><td>External Antenna</td></tr><tr><td>Antenna Gain(Peak)</td><td>2dBi</td></tr></table> <p>2.4G Wifi</p> <table><tr><td>Operation Frequency:</td><td>IEEE 802.11b/g/n20 2412-2472MHz IEEE 802.11 n40 2422-2462MHz</td></tr><tr><td>Modulation Type:</td><td>DSSS, OFDM</td></tr><tr><td>Antenna Designation:</td><td>External Antenna</td></tr><tr><td>Antenna Gain(Peak)</td><td>2dBi</td></tr></table> <p>5G 5180-5240:</p> <table><tr><td>Operation Frequency:</td><td>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</td></tr><tr><td>Modulation Type:</td><td>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(256AQAM, 64QAM, 16QAM, QPSK, BPSK)</td></tr><tr><td>Antenna Designation:</td><td>External Antenna</td></tr><tr><td>Antenna Gain(Peak)</td><td>2dBi</td></tr></table>	Operation Frequency:	2402 MHz ~ 2480 MHz	Modulation Type:	GFSK	Antenna Designation:	External Antenna	Antenna Gain(Peak)	2 dBi	Operation Frequency:	2402 MHz ~ 2480 MHz	Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK	Antenna Designation:	External Antenna	Antenna Gain(Peak)	2dBi	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)	2dBi	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(256AQAM, 64QAM, 16QAM, QPSK, BPSK)	Antenna Designation:	External Antenna	Antenna Gain(Peak)	2dBi
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The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



	<b>5260-5320</b>	
	Operation Frequency:	IEEE 802.11a:5260MHz-5320MHz IEEE 802.11n HT20/IEEE 802.11ac HT20:5260MHz-5320MHz IEEE 802.11n HT40/IEEE 802.11ac HT40:5270MHz-5310MHz/IEEE 802.11ac HT80:5290MHz
	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 (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac HT80: OFDM (64QAM, 16QAM, QPSK,BPSK)
	Antenna Designation:	External Antenna
	Antenna Gain(Peak)	2dBi
	<b>5500-5700</b>	
	Operation Frequency:	IEEE 802.11a:5500MHz-5700MHz IEEE 802.11n HT20/IEEE 802.11ac HT20:5500MHz-5700MHz IEEE 802.11n HT40/IEEE 802.11ac HT40:5510-5670MHz/IEEE 802.11ac HT80:5530-5610MHz
	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 (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac HT80: OFDM (64QAM, 16QAM, QPSK,BPSK)
	Antenna Designation:	External Antenna
	Antenna Gain(Peak)	2dBi
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	V1.1	
Software Version	V2.0	
Note:	For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.	



## 1.EN IEC 62311 REQUIREMENT

### 1.1 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 (0 Hz to 300 GHz)]

### 1.2 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.



### 3. RESULT

See Report 2107RSU065-E5 for test data

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