HUAK TESTING

TEST REPORT

Report Reference No......: **HK2604270463-2EH**

Compiled by
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Supervised by
(position+printed name+signature)..: Technique principal Sliver Wan

Approved by
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Date of issue.....: 2026/06/29

Testing Laboratory Name.....: Shenzhen HUAK Testing Technology Co., Ltd.

Address.....: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

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

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

Test specification..... **:**

Standard .....: **EN IEC 62311:2020**

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

Master TRF.....: Dated 2020-05

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Product Name ..... : ED-IPC3020E

Trade Mark.....: EDATEC

Product Model.....: ED-IPC3020E

Series Model.....: N/A

Hardware Version .....: V2.0

Software Version.....: V1.0

Ratings.....: DC 5.1V From Adapter

Result.....: **Pass**

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TEST REPORT

Test Report No. :	HK2604210436E-2EH	2026/06/29 Date of issue

Product Name	:	ED-IPC3020E
Product Model	:	ED-IPC3020E
Series Model	:	N/A
Applicant	:	EDA Technology Shanghai Co.,Ltd
Address	:	Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road, Jiading District, Shanghai, PRC
Manufacturer	:	EDA Technology Shanghai Co.,Ltd
Address	:	Building 29, Shengchuang Enterprise Park, No.1661 Jialuo Road, Jiading District, Shanghai, PRC

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** Issued History **

Revision	Description	Issued Date	Remark
Revision 1.0	Initial Test Report Release	2026/06/29	Jason Zhou

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1. GENERAL INFORMATION

1.1 GENERAL REMARKS

Date of receipt of test sample	:	2026/04/27
Testing commenced on	:	2026/04/27
Testing concluded on	:	2026/06/29

1.2 GENERAL DESCRIPTION OF EUT

Equipment	ED-IPC3020E
Model Name	ED-IPC3020E
Series Model	N/A
Difference descrption	N/A
Product Description	The EUT is ED-IPC3020E. BT-BLE: Operation Frequency: 2402 MHz ~ 2480 MHz Modulation Type: GFSK Antenna Designation: External Antenna Antenna Gain(Peak) 3.5dBi BT-EDR: Operation Frequency: 2402 MHz ~ 2480 MHz Modulation Type: GFSK, π/4DQPSK, 8DPSK Antenna Designation: External Antenna Antenna Gain(Peak) 3.5dBi 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) 3.5dBi 5G 5150-5250: Operation Frequency: IEEE 802.11a:5180MHz-5240MHz IEEE 802.11n HT20:5180MHz-5240MHz IEEE 802.11n HT40:5190MHz-5230MHz IEEE 802.11ac HT20:5180MHz-5240MHz 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) 2.5dBi

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<table>
<tr><td></td><td>
5260-5320:
<table>
<tr><td>Operation Frequency:</td><td>IEEE 802.11a:5180MHz-5240MHz
IEEE 802.11n HT20:5180MHz-5240MHz
IEEE 802.11n HT40:5190MHz-5230MHz
IEEE 802.11ac HT20:5180MHz-5240MHz
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 (256QAM, 64QAM, 16QAM, QPSK, BPSK)</td></tr>
<tr><td>Antenna Designation:</td><td>External Antenna</td></tr>
<tr><td>Antenna Gain(Peak)</td><td>2.5dBi</td></tr>
</table>
5500-5700:
<table>
<tr><td>Operation Frequency:</td><td>IEEE 802.11a:5180MHz-5240MHz
IEEE 802.11n HT20:5180MHz-5240MHz
IEEE 802.11n HT40:5190MHz-5230MHz
IEEE 802.11ac HT20:5180MHz-5240MHz
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)
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<tr><td>Antenna Designation:</td><td>External Antenna</td></tr>
<tr><td>Antenna Gain(Peak)</td><td>2.5dBi</td></tr>
</table>
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.
</td></tr>
<tr><td>Channel List</td><td>Refer to below</td></tr>
<tr><td>Hardware Version</td><td>V1.0</td></tr>
<tr><td>Software Version</td><td>V2.0</td></tr>
<tr><td>Note:</td><td>For a more detailed features description, please refer to the manufacturer’s specifications or the User's Manual.</td></tr>
<tr><td colspan="2">Note: Antenna gain Refer to the antenna specifications.
The cable loss data is obtained from the supplier.
The test results in the report only apply to the tested sample.</td></tr>
</table>

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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 (0 Hz to 300 GHz)]

2.2 LIMIT

The equipment is deemed to fulfil the requirements of this document if the values obtained by the assessment are less than or equal to the limits and if the actual assessment uncertainty is less than or equal to the maximum uncertainty specified for the applied assessment method(s). If the actual assessment uncertainty is larger than the maximum uncertainty then the procedure given in 6.2 shall be applied.

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3. RESULT

3.1 Summary of Results

Limit (W/ m²)	Result (W/ m²)	Verdict
10	0.171	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. EIRP (W)	R (m)	S (W/m2)	Limit (W/m2)	Conclusion
BT-BLE	0.005	0.2	0.010	10	PASS
BT-EDR	0.009	0.2	0.018	10	PASS
2.4GWIFI	0.074	0.2	0.147	10	PASS
5150-5250	0.086	0.2	0.171	10	PASS
5260-5320	0.083	0.2	0.165	10	PASS
5500-5700	0.078	0.2	0.155	10	PASS

3.3 Measurement Uncertainty

Extended Uncertainty (k=2) 95% 0.5dB

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

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