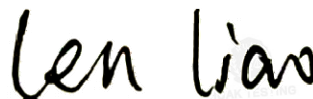


TEST REPORT

Report Reference No......: **HK2509024997-2EH**

Compiled by

(position+printed name+signature)...: Testing engineer Len Liao



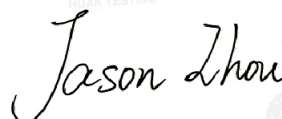
Supervised by

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



Approved by

(position+printed name+signature)...: Manager Jason Zhou



Date of issue.....: 2025/09/12

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

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

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Product Name : ED-HMI3100

Trade Mark.....: EDATEC

Product Model.....: ED-HMI3120-101C

Serial Model.....: ED-HMI3120-070C

Hardware Version: V1.3

Software Version.....: Debian 12

Ratings.....: DC 12V From Adapter

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

TEST REPORT

| | | |
|--------------------------|-------------------------|----------------------|
| Test Report No. : | HK2509024997-2EH | 2025/09/12 |
| | | Date of issue |

Product Name : ED-HMI3100

Product Model : ED-HMI3120-101C

Serial Model : ED-HMI3120-070C

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

**** Issued History ****

| Revision | Description | Issued Date | Remark |
|--------------|-----------------------------|-------------|------------|
| Revision 1.0 | Initial Test Report Release | 2025/09/12 | Jason Zhou |
| | | | |
| | | | |

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1. GENERAL INFORMATION

1.1 GENERAL REMARKS

| | | |
|--------------------------------|---|------------|
| Date of receipt of test sample | : | 2025/09/02 |
| Testing commenced on | : | 2025/09/02 |
| Testing concluded on | : | 2025/09/12 |

1.2 GENERAL DESCRIPTION OF EUT

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---|----------------------|---------------------|------------------|----------------------------|----------------------|------------------|--------------------|------|----------------------|---------------------|------------------|------|----------------------|------------------|--------------------|------|----------------------|--|------------------|------------|----------------------|------------------|--------------------|------|----------------------|--|------------------|--|----------------------|------------------|
| Equipment | ED-HMI3100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Model Name | ED-HMI3120-101C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial Model | ED-HMI3120-070C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Difference description | The main difference between different models is that the size of the LCD screen is not the same, and the maximum size is tested. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Product Description | <p>The EUT is ED-HMI3100.</p> <p>BT-EDR:</p> <table> <tr> <td>Operation Frequency:</td><td>2402 MHz ~ 2480 MHz</td></tr> <tr> <td>Modulation Type:</td><td>GFSK, $\pi/4$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>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>2dBi</td></tr> </table> <p>2.4G Wifi</p> <table> <tr> <td>Operation Frequency:</td><td>IEEE 802.11b/g/n20 2412-2472MHz IEEE 802.11n40 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 5150-5250:</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 (256QAM, 64QAM, 16QAM, QPSK,BPSK)</td></tr> <tr> <td>Antenna Designation:</td><td>External Antenna</td></tr> </table> | Operation Frequency: | 2402 MHz ~ 2480 MHz | Modulation Type: | GFSK, $\pi/4$ DQPSK, 8DPSK | Antenna Designation: | External Antenna | Antenna Gain(Peak) | 2dBi | Operation Frequency: | 2402 MHz ~ 2480 MHz | Modulation Type: | GFSK | Antenna Designation: | External Antenna | Antenna Gain(Peak) | 2dBi | Operation Frequency: | IEEE 802.11b/g/n20 2412-2472MHz IEEE 802.11n40 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 (256QAM, 64QAM, 16QAM, QPSK,BPSK) | Antenna Designation: | External Antenna |
| Operation Frequency: | 2402 MHz ~ 2480 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Modulation Type: | GFSK, $\pi/4$ DQPSK, 8DPSK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna Designation: | External Antenna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna Gain(Peak) | 2dBi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operation Frequency: | 2402 MHz ~ 2480 MHz | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Modulation Type: | GFSK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna Designation: | External Antenna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna Gain(Peak) | 2dBi | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Operation Frequency: | IEEE 802.11b/g/n20 2412-2472MHz IEEE 802.11n40 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 (256QAM, 64QAM, 16QAM, QPSK,BPSK) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Antenna Designation: | External Antenna | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
|--|--|--|--|
| | Antenna Gain(Peak) | 2dBi | |
| | 5745-5825 | | |
| | Operation Frequency: | IEEE 802.11a/ IEEE 802.11n HT20/802.11ac HT20:5745MHz-5825MHz IEEE 802.11n HT40/ IEEE 802.11ac HT40:5755-5795MHz IEEE 802.11ac HT80:5775MHz | |
| | 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) | 2dBi | |
| | 4G: | | |
| | Operation Frequency: | Band 1:1920-1980MHz, Band 3:1710-1785MHz, Band 7:2500-2570MHz, Band 8:880-915MHz, Band 20:832-862MHz, Band 28:703-733MHz, Band 38:2570-2620MHz, Band 40:2300-2400MHz | |
| | Modulation Type: | QPSK , 16-QAM | |
| | 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 | V1.3 | |
| | Software Version | Debian 12 | |
| Note: | For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. | | |
| 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. | | | |

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

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.



HUAKE TESTING

3. RESULT

3.1 Summary of Results

| Limit (W/ m ²) | Result (W/ m ²) | Verdict |
|----------------------------|-----------------------------|---------|
| 10 | 0.080 | 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

$$\pi=3.142$$

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/m ²) | Limit (W/m ²) | Conclusion |
|----------------|---------------|-------|-----------------------|---------------------------|------------|
| EDR | 0.0009 | 0.2 | 0.0018 | 10 | PASS |
| BLE | 0.0005 | 0.2 | 0.001 | 10 | PASS |
| 2.4G WIFI | 0.040 | 0.2 | 0.080 | 10 | PASS |
| 5150-5250 | 0.037 | 0.2 | 0.074 | 10 | PASS |
| 5745-5825 | 0.018 | 0.2 | 0.036 | 10 | PASS |

4G See test report 2302RSU052-E1 and 2302RSU052-E2.

3.3 Measurement Uncertainty

Extended Uncertainty (k=2) 95% 0.5dB

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