

## TEST REPORT

Report Reference No.: HK2512116489-2EH

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Date of issue: 2026/03/25

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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-HMI3010

Trade Mark: EDATEC

Product Model: ED-HMI3010-215CA

Series Model: ED-HMI3010-116C, ED-HMI3010-116CA, ED-HMI3010-133C,  
ED-HMI3010-133CA, ED-HMI3010-156C, ED-HMI3010-156CA,  
ED-HMI3010-185C, ED-HMI3010-185CA, ED-HMI3010-215C

Hardware Version: V2.0

Software Version: V1.0

Ratings: DC 12V From Adapter

Result: Pass

## TEST REPORT

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**HK2512116489-2EH**

**2026/03/25**

**Date of issue**

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ED-HMI3010-133CA, ED-HMI3010-156C, ED-HMI3010-156CA,  
ED-HMI3010-185C, ED-HMI3010-185CA, ED-HMI3010-215C

**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	2026/03/25	Jason Zhou

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## 1. GENERAL INFORMATION

### 1.1 GENERAL REMARKS

Date of receipt of test sample	:	2025/12/11
Testing commenced on	:	2025/12/11
Testing concluded on	:	2026/03/25



## 1.2 GENERAL DESCRIPTION OF EUT

Equipment	ED-HMI3010	
Model Name	ED-HMI3010-215CA	
Series Model	ED-HMI3010-116C, ED-HMI3010-116CA, ED-HMI3010-133C, ED-HMI3010-133CA, ED-HMI3010-156C, ED-HMI3010-156CA, ED-HMI3010-185C, ED-HMI3010-185CA, ED-HMI3010-215C	
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-HMI3010-215CA.	
Product Description	The EUT is ED-HMI3010.	
	BT-BLE:	
	Operation Frequency:	2402 MHz ~ 2480 MHz
	Modulation Type:	GFSK
	Antenna Designation:	External Antenna
	Antenna Gain(Peak)	1dBi
	BT-EDR:	
	Operation Frequency:	2402 MHz ~ 2480 MHz
	Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
	Antenna Designation:	External Antenna
	Antenna Gain(Peak)	1dBi
	2.4G Wifi	
	Operation Frequency:	IEEE 802.11b/g/n20/AX HE20 2412-2472MHz
	Modulation Type:	DSSS, OFDM
	Antenna Designation:	External Antenna
	Antenna Gain(Peak)	1dBi
	5G 5150-5250:	
	Operation Frequency:	IEEE 802.11a:5180MHz-5240MHz IEEE 802.11n HT20/IEEE 802.11ac HT20: 5180 MHz- 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)	1dBi

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 15 days only. The document is issued by Shenzhen HUAKE Testing Technology Co., Ltd., this document cannot be reproduced except in full with our prior written permission.

	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) 1dBi
	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	V2.0
Software Version	V1.0
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

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.



### 3. RESULT

#### 3.1 Summary of Results

Limit (W/ m <sup>2</sup> )	Result (W/ m <sup>2</sup> )	Verdict
10	0.060	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 <sup>2</sup> )	Limit (W/m <sup>2</sup> )	Conclusion
BT-BLE	0.001	0.2	0.002	10	PASS
BT-EDR	0.001	0.2	0.002	10	PASS
2.4GWIFI	0.030	0.2	0.060	10	PASS
5150-5250	0.020	0.2	0.040	10	PASS
5745-5825	0.018	0.2	0.036	10	PASS

#### 3.3 Measurement Uncertainty

Extended Uncertainty (k=2) 95%      0.5dB

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