

FCC RF EXPOSURE REPORT

FCC ID: 2A70H-EA-XRN-7B004

Test Report No.....: RF250530006-01-005

Product(s) Name.....: Industrial touch all-in-one PC

Model(s).....: EA-XRN-7B004, EA-XRN-7B006

Trade Mark.....: N/A

Applicant.....: Shenzhen Tengtek Technology Co., Ltd

Address.....: Room 1202, Building 160, East Lisongkuang Community, Gongming
Street, Guangming District, Shenzhen, China 518106

Receipt Date.....: 2025.06.04

Test Date.....: 2025.06.06

Issued Date.....: 2025.06.11

Standards.....: FCC Guidelines for Human Exposure IEEE C95.1
FCC Title 47 Part 2.1091
KDB 447498 D01 General RF Exposure Guidance v06

Testing Laboratory.....: Shenzhen Haiyun Standard Technical Co., Ltd.

Prepared By:	Checked By:	Approved By:	
Albert Fan	Black Ding	Tim Zhang	
<i>Albert Fan</i>	<i>Black Ding</i>	<i>Tim Zhang</i>	

History of this test report

Original Report Issue Date: 2025.06.11

- ☒ No additional attachment
- ☐ Additional attachments were issued following record

Attachment No.	Issue Date	Description

1.. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

For 2.4GHz_WiFi:

Antenna gain	Antenna Type
2.86dBi	FPC Antenna

For 5GHz_WiFi:

Antenna gain	Antenna Type
3.60dBi	FPC Antenna

For BDR+EDR/BLE:

Antenna gain	Antenna Type
2.86dBi	FPC Antenna

2.. TEST RESULTS

Worst case as below

Operating Mode	Freq.	Maximum conducted output power	Directional Antenna Gain	Calculated maximum EIRP		MPE Limit	MPE Value
	(MHz)	(dBm)	(dBi)	(dBm)	(mW)	(mW/cm ²)	
BDR+EDR	2402-2480	0.80	2.86	3.66	2.32	1	0.0005
BLE	2402-2480	2.64	2.86	5.50	3.55	1	0.0007
2.4G Wifi	2412-2462	14.39	2.86	17.25	53.09	1	0.0106
5G Wifi	5180-5825	11.62	3.60	15.22	33.27	1	0.0066

Note: 1. The calculated distance is 20 cm.
 2. The 2.4G Wifi function can not transmit at the same time with the 5G Wifi function
 3. The Wifi function can not transmit at the same time with the BT function.

Result: Complies

Statement

1. The report is invalid without the official seal or special seal of Shenzhen Haiyun Standard Technical Co., Ltd. (hereinafter referred to as the unit).
2. The report is invalid without the signature of the approver.
3. The report is invalid if altered arbitrarily.
4. The report shall not be partially copied without the written approval of the unit.
5. The reported test results are only valid for the tested samples.
6. If there is any objection to the test report, it shall be submitted to the test unit within 15 days from the date of receiving the report, and the overdue shall not be accepted.

Shenzhen Haiyun Standard Technical Co., Ltd.

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(END OF REPORT)