

RF Exposure Evaluation Report

Application No.: GZCR2108020814AT
Applicant: PAX TECHNOLOGY LIMITED
Address of Applicant: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour, Hong Kong, China
Manufacturer: PAX Computer Technology(Shenzhen) Co., Ltd.
Address of Manufacturer: 4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.

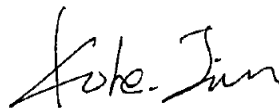
Equipment Under Test (EUT):

EUT Name: Smart Kiosk
Model No.: SK700
Trade Mark: PAX
Standards: 47 CFR PART 1.1310
 47 CFR PART 2.1091
 447498 D01 General RF Exposure Guidance v06

Date of Receipt: 2021-06-21
Date of Test: 2021-06-29 to 2021-08-25
Date of Issue: 2021-08-27

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.



Kobe Jian
 EMC Laboratory Manager



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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-08-27		Original

Authorized for issue by:			
			
		<hr/> Curry Wu/Project Engineer	
			
		<hr/> Ricky Liu/Reviewer	



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3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	3
4 GENERAL INFORMATION	4
4.1 GENERAL DESCRIPTION OF EUT	4
4.2 TEST LOCATION	6
4.3 TEST FACILITY	6
4.4 DEVIATION FROM STANDARDS	7
4.5 ABNORMALITIES FROM STANDARD CONDITIONS	7
4.6 OTHER INFORMATION REQUESTED BY THE CUSTOMER	7
5 RF EXPOSURE EVALUATION	8
5.1 RF EXPOSURE COMPLIANCE REQUIREMENT	8
5.1.1 Limits	8
5.1.2 Test Procedure	8
4.1.3 EUT RF EXPOSURE EVALUATION	9



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4 General Information

4.1 General Description of EUT

Power supply:	AC100-240V, 50/60Hz, 65W Max
Cable(s):	AC power cable: 1m unshielded cable without ferrite core
Firmware Version:	V0.0.0.X
Hardware Version:	SK700
Sample NO.:	2190000239
For BT:	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	PIFA Antenna
Antenna Gain:	1.5dBi
For BLE:	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Data Rate:	1Mbps, 2Mbps
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	1.5dBi
For 2.4G WIFI	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Number of Channels:	802.11b/g/n(HT20):11
Channel Spacing:	5MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	1.5dBi



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For 5G WIFI

	U-NII-1: 5180-5240MHz;
	U-NII-2A: 5260-5320MHz;
Operation Frequency (20MHz):	U-NII-2C: 5500-5700MHz;
	U-NII-3: 5745-5825MHz
	U-NII-1: 5190-5230MHz;
Operation Frequency (40MHz):	U-NII-2A: 5270-5310MHz;
	U-NII-2C: 5510-5670MHz;
	U-NII-3: 5755-5795MHz
	U-NII-1: 5210MHz;
Operation Frequency (80MHz):	U-NII-2A: 5290MHz;
	U-NII-2C: 5530-5610MHz;
	U-NII-3: 5775MHz
	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK);
Modulation Type:	802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM);
	802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	802.11a/n(HT20)/ac(HT20): 20MHz;
Channel Spacing:	802.11n(HT40)/ac(HT40): 40MHz;
	802.11ac(HT80): 80MHz
DFS Function:	Slave without Radar detection
TPC Function:	Without TPC function
Antenna Type:	PIFA Antenna
Antenna Gain:	1.5dBi
For WCDMA:	
Operation Frequency Band:	UMTS FDD Band II/IV/V
Modulation Type:	QPSK for WCDMA
Supported Channel Bandwidth:	5MHz for WCDMA
UMTS Power Class:	Level 3
Antenna Type:	PIFA antenna
Antenna Gain:	WCDMA band II: 0.8dBi; band IV: 0.8dBi; band V: 0.5dBi
For LTE:	
LTE Operation Frequency Band:	LTE FDD Band 2, 4, 5, 12, 13, 17
Modulation Type:	QPSK, 16QAM
LTE Power Class:	Level 3
Antenna Type:	PIFA Antenna
Antenna Gain:	LTE band 2: 0.8dBi; band 4: 0.8dBi; band 5: 0.5dBi; band 12: 0.5dBi; band 13: 0.5dBi; band 17: 0.5dBi;



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4.2 Test Location

All tests were performed at:
 SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District,
 Guangzhou, China 510663
 Tel: +86 20 82155555 Fax: +86 20 82075059

4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio



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equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

• **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500 .....	.....	.....	f/1500	30
1500–100,000 .....	.....	.....	1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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4.1.3 EUT RF Exposure Evaluation

For Stand alone:

For BT:

Antenna Gain: 1.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.41 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Max Conducted Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	MPE ratio	Result
2402	8.60	7.24	0.0020	1.0000	0.0020	PASS

Note: Refer to report No. GZCR210802081401 for EUT test Max Conducted Output Power value.

The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For BLE:

Antenna Gain: 1.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.41 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Max Conducted Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	MPE ratio	Result
2402	6.85	4.84	0.0015	1.0000	0.0015	PASS

Note: Refer to report No. GZCR210802081402 for EUT test Max Conducted Output Power value.

The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 2.4G WIFI:

Antenna Gain: 1.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.41 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Max Conducted Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	MPE ratio	Result
2437	15.86	38.55	0.0108	1.0000	0.0108	PASS



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Note: Refer to report No. GZCR210802081403 for EUT test Max Conducted Output Power value.
 The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 5G:

Antenna Gain: 1.5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.41 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Max Conducted Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	MPE ratio	Result
5500	12.19	16.56	0.0047	1.0000	0.0047	PASS

Note: Refer to report No. GZCR210802081404 for EUT test Max Conducted Output Power value.
 The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For WCDMA:

Antenna Gain: 0.8dBi for band 2, 4; 0.5dBi for band 5

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.20 for band 2, 4; 1.12 for band 5 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Operation Band	Max Conducted Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	MPE ratio	Result
2	24	251.19	0.0601	1.0000	0.0601	PASS
4	23	199.53	0.0477	1.0000	0.0477	PASS
5	23	199.53	0.0445	0.5509	0.0808	PASS

Note: Refer to report No. GZCR210802081406 for EUT test Max Conducted Output Power value.
 The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For LTE:

Antenna Gain: 0.8dBi for band 2, 4; 0.5dBi for band 5, 12, 13, 17



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Antenna Gain: The maximum Gain measured in fully anechoic chamber is 1.20 for band 2, 4; 1.12 for band 5, 12, 13, 17 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Operation Band	Max Conducted Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)	Limit (mW/cm ²)	MPE ratio	Result
2	24	251.19	0.0601	1.0000	0.0601	PASS
4	23	199.53	0.0477	1.0000	0.0477	PASS
5	23	199.53	0.0445	0.5509	0.0808	PASS
12	23	199.53	0.0445	0.4665	0.0954	PASS
13	23	199.53	0.0445	0.5197	0.0856	PASS
17	23	199.53	0.0445	0.4710	0.0945	PASS

Note: Refer to report No. GZCR210802081407 for EUT test Max Conducted Output Power value.

The distance r (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For Maximum Simultaneous Transmission:

Operation mode	MPE ratio	Limit	Result
BT+WCDMA	0.0828	1.0000	PASS
BT+LTE	0.0974	1.0000	PASS
WIFI+WCDMA	0.0916	1.0000	PASS
WIFI+LTE	0.1062	1.0000	PASS

Remark:

1. For the operation mode above, BT refers to maximum power of classical BT and BLE, and WIFI refers to the maximum power in 2.4G band and 5GHz band. In this case, power for classical BT is greater than BLE, and WIFI in 2.4GHz band is greater than that in 5GHz band, therefore, the maximum ones were taken for final MPE ratio consideration.
2. For WCDMA & LTE, the maximum power including tune up was taken into consideration.

- End of the Report -



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