

# Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR221000039009

Page: 1 of 10

## TEST REPORT

**Application No.:** FYCR2210000390AT  
**Applicant:** PAX Technology Limited  
**Address of Applicant:** Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Hong Kong  
**Manufacturer:** PAX Computer Technology (Shenzhen) Co., Ltd.  
**Address of Manufacturer:** 401 and 402, Building 3, Shenzhen Software Park, Nanshan District, Shenzhen City, Guangdong Province, P.R.C

**Equipment Under Test (EUT):**

**EUT Name:** Integrated Smart Terminal  
**Model No.:** E700Mini  
**Trade Mark:** PAX  
**FCC ID:** V5PE700MINI  
**Standard(s) :** 47 CFR Part 1.1307  
 47 CFR Part 1.1310  
 47 CFR Part 2.1091  
 447498 D04 Interim General RF Exposure Guidance v01

**Date of Receipt:** 2022-10-08  
**Date of Evaluation:** 2022-10-10 to 2022-10-23  
**Date of Issue:** 2022-10-28

<b>Evaluation Result:</b>	<b>Pass*</b>
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\* In the configuration evaluated, the EUT complied with the standards specified above.



Winkey Wang  
 EMC Technical Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-10-28		Original

<b>Authorized for issue by:</b>			
		<i>Tree Zhan</i>	
		<hr/>	
		<b>Tree Zhan/Project Engineer</b>	
		<i>Winkey Wang</i>	
		<hr/>	
		<b>Winkey Wang/Reviewer</b>	



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### 3 General Information

#### 3.1 Details of E.U.T.

Power supply:	DC3.7V by Li-ion battery(1100mAh) DC24V/2.7A from AD/DC adapter Adapter M/N: G065A1-240002700 Adapter input:AC100-240V, 50/60Hz, 1.5A max Adapter output: DC24V/2.7A
Cable(s):	Power adapter cable: 3m unshielded cable with one ferrite core about 8cm to the DC port
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:	4.38dBi
For BLE:	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual mode
Data rate:	1M/2M
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	4.38dBi
For 2.4G WIFI:	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz;802.11n(HT40): 2422MHz to 2452MHz
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;802.11n(HT40):7
Channel Spacing:	5MHz
Antenna Type:	PIFA Antenna
Antenna Gain:	4.38dBi
For 5G WIFI:	
Operation Frequency	U-NII-1: 5180-5240MHz; U-NII-2A: 5260-5320MHz; U-NII-2C: 5500-



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(20MHz):	5700MHz; U-NII-3: 5745-5825MHz
Operation Frequency (40MHz):	U-NII-1: 5190-5230MHz; U-NII-2A: 5270-5310MHz; U-NII-2C: 5510-5670MHz; U-NII-3: 5755-5795MHz
Operation Frequency (80MHz):	U-NII-1: 5210MHz; U-NII-2A: 5290MHz; U-NII-2C: 5530-5610MHz; U-NII-3: 5775MHz
Modulation Type:	802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n(HT20)/ac(HT20): 20MHz; 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:	4.38dBi
For NFC:	
Operation Frequency:	13.56MHz
Modulation Type:	ASK
Antenna Type:	Loop Antenna
For WCDMA:	
Support Network:	RMC, HSDPA, HSUPA
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 B2: 3.28dBi, B4: 3.38dBi, B5: 2.84dBi
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 B2: 3.28dBi 4: 3.38dBi 5: 2.84dBi 12: 1.34dBi 13: 1.45dBi 17: 1.34dBi



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447498 D04 Interim General RF Exposure Guidance v01 is not accredited by A2LA

### 3.2 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

### 3.3 Test Facility

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

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

### 3.4 Deviation from Standards

None

### 3.5 Abnormalities from Standard Conditions

None



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## 4 Radio Spectrum Technical Requirement

### 4.1 RF Exposure Compliance Requirement

#### 4.1.1 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 <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3–3.0 .....	614	1.63	*(100)	6
3.0–30 .....	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30–300 .....	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3–1.34 .....	614	1.63	*(100)	30
1.34–30 .....	824/f	2.19/f	*(180/f <sup>2</sup> )	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:  $Pd = (Pout \cdot G) / (4 \cdot \pi \cdot R^2)$

Where

Pd = power density in mW/cm<sup>2</sup>

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

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

Pd id the limit of MPE, 1 mW/cm<sup>2</sup>. 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.

#### 4.1.2 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: 4.38dBi, which is 2.74 in linear scale

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	MPE ratio	Result
2441	4	2.5119	0.0014	1.0	0.0014	PASS

**For BLE:**

Antenna Gain: 4.38dBi, which is 2.74 in linear scale

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Max Conducted Peak Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	MPE ratio	Result
2402	7	5.0119	0.0027	1.0	0.0027	PASS

**For 2.4G WIFI:**

Antenna Gain: 4.38dBi, which is 2.74 in linear scale

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Max Conducted AV Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	MPE ratio	Result
2437	16	39.8107	0.0217	1.0	0.0217	PASS

**For 5G WIFI:**

Antenna Gain: 4.38dBi, which is 2.74 in linear scale

Output Power Into Antenna & RF Exposure Evaluation Distance:



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Frequency (MHz)	Max Conducted AV Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	MPE ratio	Result
5230	15	31.6228	0.0172	1.0	0.0172	PASS

### For WCDMA:

Antenna Gain: 3.28dBi for band 2, 3.38dBi for band 4; 2.84dBi for band 5

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.13 for band 2, 2.18 for band 4; 1.92 for band 5 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Operation Band	Max Conducted Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	MPE ratio	Result
1880	2	23	199.5262	0.0845	1.0000	0.0845	PASS
1752.6	4	23	199.5262	0.0864	1.0000	0.0864	PASS
846.6	5	23	199.5262	0.0763	0.5644	0.1352	PASS

### For LTE:

Antenna Gain: Band 2: 3.28dBi; Band 4: 3.38dBi; Band 5: 2.84dBi; Band 12: 1.34dBi; Band 13: 1.45dBi; Band 17: 1.34dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.13 for band 2, 2.18 for band 4; 1.92 for band 5, 1.36 for band 12, 1.4 for band 13, 1.36 for band 17 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

Frequency (MHz)	Operation Band	Max Conducted Output Power (dBm)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	MPE ratio	Result
1880	2	23	199.5262	0.0845	1.0000	0.0845	PASS
1754.3	4	23	199.5262	0.0864	1.0000	0.0864	PASS
848.3	5	23.5	223.8721	0.0857	0.5655	0.1515	PASS
699.7	12	24	251.1886	0.0680	0.4665	0.1458	PASS
784.5	13	23	199.5262	0.0554	0.5230	0.1059	PASS
713.5	17	23.5	223.8721	0.0606	0.4757	0.1274	PASS



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**For Maximum Simultaneous Transmission:**

Operation mode	MPE ratio	Limit	Result
BT+WCDMA	0.1379	1.0000	PASS
BT+LTE	0.1542	1.0000	PASS
WIFI+WCDMA	0.1569	1.0000	PASS
WIFI+LTE	0.1732	1.0000	PASS

Remark: all the power listed above included tune up tolerance.

## 5 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for FYCR2210000390AT

- End of the Report -



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