



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

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

Report No.: FYCR221000039009

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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

Evaluation Result:

Pass*

* 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

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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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 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.

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 ²)	Limit (mW/cm ²)	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 ²)	Limit (mW/cm ²)	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 ²)	Limit (mW/cm ²)	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 ²)	Limit (mW/cm ²)	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 ²)	Limit (mW/cm ²)	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 ²)	Limit (mW/cm ²)	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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