



RF EXPOSURE REPORT

Product: Integrated Smart Terminal

Model Name: E700

FCC ID: V5PE700BW

Applicant: PAX Technology Limited

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Kong China

Manufacturer: PAX Computer Technology (Shenzhen) Co., Ltd.

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Report No.: W7L-P21100003SA01

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Test Date: Sep. 29, 2021 ~ Oct. 27, 2021

Issued Date: Oct. 28, 2021

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RELEASE CONTROL RECORD

ISSUE NO.	I REASON FOR CHANGE	DATE ISSUED	
W7L-P21100003SA01	Original release	Oct. 28, 2021	

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1 CERTIFICATION

PRODUCT: Integrated Smart Terminal

BRAND NAME: PAX
MODEL NAME: E700

APPLICANT: PAX Technology Limited

TESTED: Sep. 29, 2021 ~ Oct. 27, 2021

TEST SAMPLE: Production Unit

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1

FCC Designation

CN1171

No.

The above equipment has been tested by **BV 7Layers Communications Technology (Shenzhen) Co. Ltd** and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY:	Timon	,	DATE:	Oct. 28, 2021	
	(Simon Wang / Engineer)				

APPROVED BY : _______, DATE: ________, Oct. 28, 2021

(Luke Lu / Manager)



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Integrated Smart Terminal			
MODEL NAME	E700			
NOMINAL VOLTAGE	24Vdc (adapter) 3.63Vdc (Li-ion, battery) 3.6 Vdc (Li-ion, battery)			
OPERATING TEMPERATURE RANGE	0 ~ 50°C			
	WLAN	DSSS, OFDM		
MODULATION TYPE	BT_LE	GFSK		
MODULATION THE	Bluetooth	GFSK, π/4-DQPSK, 8DPSK		
	NFC	ASK		
OPERATING	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20) 5180 ~ 5240MHz for 11a/ n(HT20)/ n(HT40) ac(VHT20)/ ac(VHT40) / ac(VHT80)		
FREQUENCY	Bluetooth/BT_LE	2402MHz ~ 2480MHz		
	NFC	13.56 MHz		
ANTENNA GAIN	1dBi gain for Bluetooth/ BT_LE/ WIFI 2.4G 2dBi gain for WIFI 5G			
I/O PORTS	Refer to user's manual			
CABLE SUPPLIED	N/A			

NOTE:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

List of Accessory:

ACCESSORIES	BRAND	MODEL	SPECIFICATION
Battery1	EVE	A0671-LE	Capacity: 3.63vdc 2550mAh
Battery2	EVE	A0671B	Capacity: 3.6vdc 2550mAh
AC Adapter	НОМОТО	ADS-65HI-19A-3 24065E	I/P:100-240Vac, 1.5A O/P: 24Vdc, 2.7A

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3 RF EXPOSURE

3.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm²)	AVERAGE TIME (minutes)					
LIMI	LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE								
300-1500			F/1500	30					
1500-100,000			1.0	30					

F = Frequency in MHz

3.2 MPE CALCULATION FORMULA

Pd = (Pout*G) / (4*pi*r2)

where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.14

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

3.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

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3.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

Worst case as below:

BT & WIFI 2.4G & WIFI 5G

Band	Frequency (MHz)	Antenna Gain (dBi)	Tune-up Conducted Power (dBm)	Tune-up Conducted Power (mW)	Doncity	limit (mW/cm^2)	PASS/ FAIL
Bluetooth	2402	1	8.16	6.55	0.0016	1.0	PASS
WIFI 2.4G	2412	1	23.95	248.31	0.0622	1.0	PASS
WIFI 5G B1	5180	2	14.22	26.42	0.0083	1.0	PASS

3.5 CONCLUSION OF SIMULTANEOUS TRANSMITTER

BT,WLAN and WWAN plug-in device can transmit simultaneously, the formula of calculated the MPE is:

CPD1/LPD1+CPD2/LPD2+.....etc. < 1

CPD = Calculation power density

LPD = Limit of power density

Therefore the worst-case situation is 0.0016/1.00+0.0622/1.00=0.0638, which is less than "1", This confirmed that the device comply with FCC 1.1310 MPE limit.

--END--

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