



Test Report No.: W7L-P21100003SA01



RF EXPOSURE REPORT

Product: Integrated Smart Terminal

Model Name: E700

FCC ID: V5PE700BW

Applicant: PAX Technology Limited

Address: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Hong Kong China

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

Address: 4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.

Prepared by: BV 7Layers Communications Technology (Shenzhen) Co. Ltd

Lab Location: No.B102, Dazhu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

TEL: +86 755 8869 6566

FAX: +86 755 8869 6577

E-MAIL: customerservice.dg@cn.bureauveritas.com

Report No.: W7L-P21100003SA01

Received Date: Sep. 29, 2021

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

Issued Date: Oct. 28, 2021

This report should not be used by the client to claim product certification, approval, or endorsement by A2LA or any government agencies.

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TABLE OF CONTENTS

RF EXPOSURE REPORT	1
RELEASE CONTROL RECORD.....	3
1 CERTIFICATION	4
2 GENERAL INFORMATION.....	5
2.1 GENERAL DESCRIPTION OF EUT	5
3 RF EXPOSURE	6
3.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)	6
3.2 MPE CALCULATION FORMULA	6
3.3 CLASSIFICATION.....	6
3.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER	7
3.5 CONCLUSION OF SIMULTANEOUS TRANSMITTER.....	7



BUREAU
VERITAS

Test Report No.: W7L-P21100003SA01

RELEASE CONTROL RECORD

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



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 No. CN1171

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 : Simon, **DATE:** Oct. 28, 2021
(Simon Wang / Engineer)

APPROVED BY : Luke Lu, **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	
MODULATION TYPE	WLAN	DSSS, OFDM
	BT_LE	GFSK
	Bluetooth	GFSK, $\pi/4$ -DQPSK, 8DPSK
	NFC	ASK
OPERATING FREQUENCY	WLAN	2412 ~ 2462MHz for 11b/g/n(HT20) 5180 ~ 5240MHz for 11a/ n(HT20)/ n(HT40) / ac(VHT20)/ ac(VHT40) / ac(VHT80)
	Bluetooth/BT_LE	2402MHz ~ 2480MHz
	NFC	13.56 MHz
ANTENNA GAIN	PIFA Antenna with 1dBi gain for Bluetooth/ BT_LE/ WIFI 2.4G PIFA Antenna with 2dBi gain for WIFI 5G	
I/O PORTS	Refer to user's manual	
CABLE SUPPLIED	N/A	

NOTE:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 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	HONOTO	ADS-65HI-19A-3 24065E	I/P:100-240Vac, 1.5A O/P: 24Vdc, 2.7A

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/cm ²)	AVERAGE TIME (minutes)
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

$$Pd = (Pout * G) / (4 * pi * r^2)$$

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**.

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)	Power Density (mW/cm ²)	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--