



FCC RF EXPOSURE REPORT

CERTIFICATION TEST REPORT

For

Smart Payment Terminal

MODEL NUMBER: A8700

REPORT NUMBER: 4791162494.3-RF-6

ISSUE DATE: March 4, 2024

FCC ID: V5PA8700

Prepared for

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Prepared by

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Revision History

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: PAX Technology Limited
Address: Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour Road, Wanchai, Hong Kong 518057 China

Manufacturer Information

Company Name: PAX Computer Technology (Shenzhen) Co., Ltd.
Address: Room 701, PAX Technology Building, Shanxia Community, Pinghu Sub-district, Longgang District, Shenzhen, China

EUT Information

EUT Name: Smart Payment Terminal
Model: A8700
Brand: PAX
Sample Received Date: January 18, 2024
Sample Status: Normal
Sample ID: 6847696
Date of Tested: January 24, 2024 to March 4, 2024

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC 47CFR§2.1091	PASS

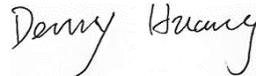
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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 and KDB447498D01v06.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	<p>A2LA (Certificate No.: 4102.01) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p>FCC (FCC Designation No.: CN1187) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p>ISED (Company No.: 21320) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011) UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793. Facility Name: Chamber D, the VCCI registration No. is G-20019 and R-20004 Shielding Room B , the VCCI registration No. is C-20012 and T-20011</p>
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Note: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China.

4. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

RF EXPOSURE LIMIT

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (Minutes)
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

CALCULATION METHOD

$$S = PG / 4\pi R^2$$

Where:

S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

CALCULATED RESULTS

Worst Case					
Mode	Max Tune Up Power	Antenna Gain	Power Density	Power Density Limit	Test Result
	dBm	dBi	mW/cm ²	mW/cm ²	--
BLE	6.5	0	0.00089	1.0	Complies
BT	12	0	0.00315	1.0	Complies
WIFI 2.4G SISO	16	0	0.00792	1.0	Complies
WIFI 5G SISO	17	2.3	0.01693	1.0	Complies
NFC	-81.91	0	0.00000	0.98	Complies

For NFC, the maximum average field strength is 13.29 dBuV/m, the EIRP=13.29-95.2= -81.91 dBm

Simultaneous Operations Condition 1

Operating Mode	Power Density	Limit Threshold	Ratio	Sum of Ratios	Limit of Ratios
	mW/cm ²	mW/cm ²			
BLE	0.00089	1.0	0.00089	0.00089	1
NFC	0.00000	0.98	0.00000		

Simultaneous Operations Condition 2

Operating Mode	ERP	Limit Threshold	Ratio	Sum of Ratios	Limit of Ratios
	mW/cm ²	mW/cm ²			
BT	0.00315	1.0	0.00315	0.00315	1
NFC	0.00000	0.98	0.00000		

Simultaneous Operations Condition 3

Operating Mode	ERP	Limit Threshold	Ratio	Sum of Ratios	Limit of Ratios
	mW/cm ²	mW/cm ²			
WIFI2.4G	0.00792	1.0	0.00792	0.00792	1
NFC	0.00000	0.98	0.00000		

Simultaneous Operations Condition 4

Operating Mode	ERP	Limit Threshold	Ratio	Sum of Ratios	Limit of Ratios
	mW/cm ²	mW/cm ²			
WIFI5G	0.01693	1.0	0.01693	0.01693	1
NFC	0.00000	0.98	0.00000		

Note:

1. The Power comes from report operation description.
2. BT&WLAN 2.4G, BT & WLAN 5G, WLAN 2.4G & WLAN 5G can't transmit simultaneously. BT&NFC, WLAN 5G & NFC, WLAN 2.4G & NFC can transmit simultaneously. (declared by client)
3. The minimum separation distance of the device is greater than 20 cm, and 20cm separation distance was set for calculation.
4. Calculate by WORST-CASE mode.

END OF REPORT