



RF EXPOSURE REPORT

- Product: Smart Kiosk
- Model Name: SK600
- Additional model: SK800
 - FCC ID: V5PSK600
 - Applicant: PAX Technology Limited
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 - Manufacturer: PAX Computer Technology (Shenzhen) Co., Ltd.
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 - Report No.: SA191120W002-1
 - Received Date: Jul. 09, 2019
 - **Test Date:** Jul. 10, 2019 ~ Jul. 11, 2019
 - Issued Date: Dec. 11, 2019

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA190429W001-1	Original release	Jul. 13, 2019
SA191120W002-1	Based on the original product add one model SK800, changed power module. All test date is copied from the original test report SA190429W001-1.	Dec. 11, 2019



1 CERTIFICATION

PRODUCT:Smart KioskBRAND NAME:PAXMODEL NAME:SK600ADDITIONAL MODEL:SK800APPLICANT:PAX Technology LimitedTESTED:Jul. 09, 2019 ~ Jul. 10, 2019TEST SAMPLE:Production UnitSTANDARDS:FCC Part 2 (Section 2.1091)FCC OET Bulletin 65, Supplement C (01-01)KDB 447498 D01 General RF Exposure Guidance v06IEEE C95.1

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.

DATE: Dec. 11, 2019

DATE:

PREPARED BY :

(Alex Chen/ Engineer)

APPROVED BY :

(Luke Lu / Manager)

BV 7Layers Communications Technology (Shenzhen) Co. Ltd

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Dec. 11, 2019



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Kiosk			
MODEL NAME	SK600			
ADDITIONAL MODEL	SK800			
NOMINAL VOLTAGE	AC120V			
OPERATING TEMPERATURE RANGE	0 ~ 50°C			
MODULATION TYPE	WLAN	802.11b : DSSS 802.11a/g/n/ac : OFDM Bluetooth : GFSK, π/4-DQPSK, 8-DPSK, LE		
MODULATION TIPE	WCDMA	BPSK/QPSK		
	LTE	QPSK, 16QAM		
	WIFI 2.4G	WLAN : 2412 ~ 2462, 5150 ~ 5350, 5470 ~ 5725, 5725 ~ 5825 Bluetooth : 2402 ~ 2480		
OPERATING	WCDMA	1852.4MHz ~ 1907.6MHz (FOR WCDMA II) 826.4MHz ~ 846.6MHz (FOR WCDMA V)		
FREQUENCY	LTE 1850.7MHz ~ 1909.3MHz (FOR LTE Band2 1710.7MHz ~ 1754.3MHz (FOR LTE Band4 824.7MHz ~ 848.3MHz (FOR LTE Band5) 699.7MHz ~ 715.3MHz (FOR LTE Band12) 706.5MHz ~ 713.5MHz (FOR LTE Band17)			
	WLAN 2.4G	External Antenna with 1.5dBi gain		
	WLAN 5G	External Antenna with 6.04dBi gain for B1 External Antenna with 5.79dBi gain for B2 External Antenna with 5.25dBi gain for B3 External Antenna with 4.75dBi gain for B4		
	WCDMA V	Fixed External Antenna with 1.0dBi gain		
ANTENNA GAIN	WCDMA II	Fixed External Antenna with 1.5dBi gain		
	LTE Band 2	Fixed External Antenna with 1.5dBi gain		
	LTE Band 4	Fixed External Antenna with 1.5dBi gain		
	LTE Band 5	Fixed External Antenna with 1.0dBi gain		
	LTE Band 12	Fixed External Antenna with 1.0dBi gain		
	LTE Band 17	Fixed External Antenna with 1.0dBi gain		
HW VERSION	NA			
SW VERSION	NA			



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. The hardware differences between SK800 with SK600:

Product size and weigh	t
SK600	Size: 660 x325 x 178 (mm) Weight: 7.8kg
SK800	Size: 965x 390x 175 (mm) Weight: 13kg

Product screen size					
SK600	screen size: 15"				
SK800	screen size: 23.8"				

Except Listings above, the others are the same.

3. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.



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)						
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 = 3.1416

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 CONDUCTED POWER

TUNE-UP POWER TABLE

Band	Frequency (MHz)	Operating Mode	Tune-Up Power And Tolerance (dBm)
BT	2441	GFSK	9.5
WIFI 2.4G	2437	11b(20MHz)	16.0
WIFI 5G B1	5230	11a(20MHz)	15.0
WIFI 5G B2	5270	11a(20MHz)	15.0
WIFI 5G B3	5510	11a(20MHz)	15.0
WIFI 5G B4	5755	11a(20MHz)	15.0
WCDMA II	1880	RMC12.2K	23.0
WCDMA V	836.4	RMC12.2K	23.0
LTE 2	1880	QPSK	23.0
LTE 4	1732.5	QPSK	22.0
LTE 5	836.5	QPSK	23.0
LTE 12	707.5	QPSK	23.0
LTE 17	710	QPSK	22.0



3.5 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

BT

Band	Frequency (MHz)	Operating Mode	Antenna Gain (dBi)	Tune-up Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm^2)	limit (mW/cm^2)	PASS / FAIL
Bluetooth	2441	BT_GFSK	1.50	9.50	12.589	0.003	1.00	PASS

WIFI 2.4G

Band	Frequency (MHz)	Operating Mode	Antenna Gain (dBi)	Tune-up Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm^2)	limit (mW/cm^2)	PASS / FAIL
WIFI 2.4G	2437	11b	1.50	16.00	56.234	0.011	1.00	PASS

WIFI 5G

Band	Frequency (MHz)	Operating Mode	Antenna Gain (dBi)	Tune-up Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm^2)	limit (mW/cm^2)	PASS / FAIL
WIFI 5G B1	5230	11a	6.04	15.00	127.057	0.025	1.00	PASS
WIFI 5G B2	5270	11a	5.79	15.00	119.950	0.024	1.00	PASS
WIFI 5G B3	5510	11a	5.25	15.00	105.925	0.021	1.00	PASS
WIFI 5G B4	5755	11a	4.75	15.00	94.406	0.019	1.00	PASS

WCDMA

Band	Frequency (MHz)	Operating Mode	Antenna Gain (dBi)	Tune-up Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm^2)	limit (mW/cm^2)	PASS / FAIL
WCDMA II	1880.0	RMC12.2K	1.50	23.00	281.838	0.056	1.00	PASS
WCDMA V	846.4	RMC12.2K	1.00	23.00	251.189	0.050	0.56	PASS

LTE

Band	Frequency (MHz)	Operating Mode	Antenna Gain (dBi)	Tune-up Power (dBm)	E.I.R.P Power (mW)	Power Density (mW/cm^2)	limit (mW/cm^2)	PASS / FAIL
Band 2	1880	QPSK	1.50	23.00	281.838	0.056	1.00	PASS
Band 4	1732.5	QPSK	1.50	22.00	223.872	0.045	1.00	PASS
Band 5	836.5	QPSK	1.00	23.00	251.189	0.050	0.56	PASS
Band 12	707.5	QPSK	1.00	23.00	251.189	0.050	0.47	PASS
Band 17	710.0	QPSK	1.00	22.00	199.526	0.040	0.47	PASS



3.6 CONCLUSION OF SIMULTANEOUS TRANSMITTER

Both of the WLAN and 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, which is less than "1", This confirmed that the device comply with FCC 1.1310 MPE limit.

Band	Frequency (MHz)	Power Density (mW/cm^2)	limit (mW/cm^2)	Power Density / Limit	Total Power Density / Limit	MPE Limit	PASS / FAIL
WIFI 5G-11a	5230	0.025	1	0.025	0.001	1.000	PASS
LTE Band 2	1880	0.056	1	0.056	0.081		

--END--