CERT #5473.03		No.: FCCSZ2024-0065-H
Т	EST REPORT	
FCC ID :	2AUA5-P2	
NAME OF SAMPLE :	Smart Desktop Termi	nal
APPLICANT :	IMachine(Xiamen)Inte	elligent Devices Co.,Ltd.
CLASSIFICATION OF TEST :	N/A	
CVC Testing Te	chnology (Shenzhe	en) Co., Ltd.
L		

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		Name: IMachine	e(Xia	men)Intellig	gent D	evices Co	o.,Ltd.
Applicant		Address:7F-2,I	No.88	8-1,Tonghui	South	ı	
		Road,Tongan,	Ciamo	en,China.			
		Name:IMachin	e(Xia	men)Intellig	gent D	evices Co	o.,Ltd.
Manufacturer		Address:7F-2,I Roa		8-1,Tonghui ngan,Xiame			
		Product Name	:Sma	rt Desktop	Termir	nal	
		Model/Type: P2	2				
		Additional Mod	del/Ty	/pe: See Ch	napter	1	
Equipment Under	[.] Test	Brand Name: N	1/A	-	-		
	Sample NO.:2-	1					
Date of Receipt.	20	D24.08.27 Date of Testing 2024.08.27~2024.10.2				3.27~2024.10.22	
Test S	Specificati	on		Test Result			
FCC Part 2	2 (Section	2.1091)					
KDB	447498 D	4			PASS		
IE	EE C95.1						
		The equip	ment	under test	was fo	ound to co	mply with the
		requirements of the standards applied.					
Evaluation of Test Res	ult						Seal of CVC
							e Date:2024.11.06
Compiled by:		Revie	wedl	ov:		Appr	oved by:
Liony Jia try		Mo	-	rats			
Liang Jiatong		Mo Xianbiao Dong Sanbi					<u>g Sanbi</u>
Name Signa	ture	Name Signature Name Signature					
Other Aspects: NONE.							

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCCSZ2024-0065-H	Original release	2024.11.06

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1. GENERAL PRODUCT INFORMATION

PRODUCT	Smart Desktop Terminal
BRAND	N/A
TEST MODEL	P2
POWER SUPPLY	DC 12V From Adapter P1、P2、P3、P5、P6、P7、P8、P9、P1S、P2S、P3S、P5S、 P6S、P7S、P8S、P9S、P1 MINI、P2 MINI、P3 MINI、P5 MINI、 P6 MINI、P7 MINI、P8 MINI、P9 MINI、P1 PLUS、P2 PLUS、 P3 PLUS、P5 PLUS、P1Pro、P2Pro、P3Pro、P5Pro; A1、A2、A3、A5、A6、A7、A8、A9、A1S、A2S、A3S、A5S、 A6S、A7S、A8S、A9S、A1 MINI、A2 MINI、A3 MINI、A5 MINI、 A6 MINI、A7 MINI、A8 MINI、A9 MINI、A1 Plus、A2 PLUS、 A3 PLUS、A5 PLUS、A1Pro、A2Pro、A3Pro、A5Pro、 A1 PlusPro、A2PlusPro、A3 PlusPro、 K1、K2、K3、K5、K6、K7、K8、K9、K1S、K2S、K3S、K5S、 K6S、K7S、K8S、K9S、K1 PLUS、K1Pro、L1,L1 PLUS,L1Pro、 L1S、M1,M1 PLUS,M1Pro、M1S、N1,N1 PLUS,N1Pro、N1S、 Q1,Q1 PLUS,Q1Pro、Q1S、R1,R1 PLUS,R1Pro、R1S、S1, S1 PLUS、S1Pro、S1S、T1,T1 PLUS or Pro or PLUS Pro or blank) A***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) K***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) K***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) K***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) K***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) K***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) K***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank) M***(*=0-9 or A-Z or MINI or PLUS or Pro or PLUS Pro or blank)
OPERATING FREQUENCY	2402MHz ~ 2480MHz for BT_EDR 2402MHz ~ 2480MHz for BT_LE 2412MHz ~ 2462MHz for 2.4G WiFi 5180MHz ~ 5825MHz for 5G WiFi
PEAK OUTPUT POWER	3.61dBm for BT-EDR 4.6dBm for BT-LE 15.33dBm for 2.4GWIFI 15.80dBm for 5G WIFI
ANTENNA TYPE AND GAIN (Remark 4/5)	BT Antenna(Main): FPC Antenna with 1.41dBi gain for BT WiFi Antenna(Aux) FPC Antenna with 1.41dBi gain for 2.4G WiFi FPC Antenna with 4.04dBi gain for 5G WiFi

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I/O	PORTS	Refer to user's manual					
Re	mark:						
1.	For more detailed features de Manual.	scription, please refer to the manufacturer's specifications or the User's					
2.	For the test results, the EUT h	ad been tested with all conditions. But only the worst case was shown in					
	test report.						
3.		(Report NO.: FCCSZ2024-0065-EUT).					
4.	4. Please refer to the antenna report.						
5.	Since the above data and/or in	nformation is provided by the client relevant results or conclusions of this					
	report are only made for these	e data and/or information, CVC is not responsible for the authenticity,					
	integrity and results of the data	a and information and/or the validity of the conclusion.					

6. Test Model(P2) and other model the only difference is the model name

	Adapter1	Adapter2
Brand	MASS POWER	DA-JING
Model No.:	S050-1A120400B3	ADP60A-12500A1
Intput:	100V-240V,50/60Hz,1.5A	100V-240V,50/60Hz,1.5A
Output:	12V/4A	12V/5A

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2. RF EXPOSURE LIMIT

(Option B) According to FCC Part2.1091 and FCC Part1.1307b, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P is given by:

 $P_{\rm th} \,({\rm mW}) = \begin{cases} ERP_{20\,\,{\rm cm}} (d/20\,\,{\rm cm})^x & d \le 20\,\,{\rm cm} \\ \\ ERP_{20\,\,{\rm cm}} & 20\,\,{\rm cm} < d \le 40\,\,{\rm cm} \end{cases}$

Where:

$$x = -\log_{10}\left(\frac{60}{ERP_{20}\,\mathrm{cm}\sqrt{f}}\right)$$

and f is in GHz; and

 $P_{\text{th}} (\text{mW}) = ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$

(Option C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source Frequency (MHz)	Threshold ERP (W)
0.3 - 1.34	1920R ²
1.34 - 30	3450R ² /f ²
30 - 300	3.38R ²
300 - 1500	0.0128R ² /f ²
1500 - 100000	19.2R ²



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For multiple RF sources: Multiple RF sources are exempt if:

- a) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).
- b) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for Pth, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth, j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source *k* either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.

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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**.

4. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
2.4G WiFi or BT	1.41	FPC Antenna
5G WiFi	4.04	FPC Antenna

This is provided by the manufacturer. The laboratory is not responsible for technical data provided by the customer.

5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The measured Conducted Power

Option	Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
	BT_EDR	2402~2480	4	+-1	3	5
	BT_LE	2402~2480	4	+-1	3	5
	2.4G WiFi	2412 ~ 2462	16	+-1	15	17
	5G WiFi	5180 ~ 5825	16	+-1	15	17

The tuned Conducted Power (declared by client)

Option	Technology	Maximum tune up power (dBm)	Maximum Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Part1.1307b Threshold (mW)	Ratio	Verify
В	BT_EDR	5	1.41	6.41	4.26	2.67	3060	0.0009	PASS
	BT_LE	5	1.41	6.41	4.26	2.67	3060	0.0009	PASS
	2.4G WiFi	17	1.41	18.41	16.26	42.27	3060	0.0138	PASS
	5G WiFi	17	4.04	21.04	18.89	77.45	3060	0.0253	PASS

Note: R=20cm

CONCLUSION:

Max: BT +5G WIFI: 0.0009 + 0.0253= 0.0262< 1, which is less than the "1" limit. So is compliant with the RF exposure requirements.

Important

(1) The test report is invalid without the official stamp of CVC;

(2) Any part photocopies of the test report are forbidden without the written permission from CVC;

(3) The test report is invalid without the signatures of Approval and Reviewer;

(4) The test report is invalid if altered;

(5) Objections to the test report must be submitted to CVC within 15 days.

(6) Generally, commission test is responsible for the tested samples only.

(7) As for the test result "-" or "N" means "not applicable", "/" means "not test", "P" means "pass" and "F" means "fail"

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