Shenzhen Toby Technology Co., Ltd.

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Maximum Permissible Exposure Evaluation

FCC ID: Y9E-IAD18006

1. Client Information

Applicant	-5	IAdea Corporation	
Addres		3F, No. 21 Lane 168, Xingshan Road,Neihu Dist., Taipei, Taiwan, R.O.C	
Manufacturer		IAdea Corporation	
Address	258	3F, No. 21 Lane 168, Xingshan Road, Neihu Dist., Taipei, Taiwan, R.O.C	

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2. General Description of EUT

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•	(Tablet without battery)				
	XDS-1088-H/IAD-18006,XDS-1088-A/IAD-18004,				
	XDS-108Z-Y/IAD-18006,XDS-108Z-Y/IAD-18004				
	(Note: Z is "0~9", and Y is "A~Z",				
	represents the software version or customer's models)				
	All models are in the same PCB layout interior structure and				
10	electrical circuits, Just different on colors, software version or				
	customer's model number.				
	Operation Frequency:	Bluetooth (BLE): 2402MHz~2480MHz			
A		802.11b/g/n(HT20): 2412MHz~2462MHz			
8	Max Output Power:	WIFI: 16.08dBm			
•		Bluetooth (BLE): 8.527dBm			
	Antonno Coin	BLE:1.14dBi FPC Antenna			
	Antenna Gain:	WIFI:1.5dBi FPC Antenna			
6	AC/DC Adapter(FJ-SW1202000N)				
	Input: AC 100~240V, 50/60Hz, 0.6A.				
	Output: DC 12V, 2A.				
	N/A				
25					
	R35				
2					
	Please refer to the User's Manual				
		XDS-1088-H/IAD-1800 XDS-108Z-Y/IAD-1800 (Note: Z is "0~9" ,and represents the software All models are in the sa electrical circuits, Just ocustomer's model num Operation Frequency: Max Output Power: Antenna Gain: AC/DC Adapter(FJ-SW Input: AC 100~240V, 5 Output: DC 12V, 2A. N/A R35			

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MPE Calculations for WIFI

1. Antenna Gain:

BLE: 1.14dBi FPC Antenna WIFI: 1.5dBi FPC Antenna.

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

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

Where

S: power density

P: power input to the 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

4. Test Result:

Mode	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]
802.11b	16.08	16±1	17	1.5	20	0.014085
802.11g	14.83	15±1	16	1.5	20	0.011188
802.11n (HT20)	14.84	15±1	16	1.5	20	0.011188
BLE	8.527	8±1	9	1.14	20	0.002055



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5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm²)		
300-1,500	F/1500		
1,500-100,000	1.0		

For 802.11b/g/n:2412~2462 MHz

For Bluetooth (BLE): 2402MHz~2480MHz

MPE limit S: 1mW/cm²

The MPE is calculated as 0.014085mW / cm² < limit 1mW / cm². So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

----END OF REPORT----