Shenzhen Toby Technology Co., Ltd.

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RF Exposure Evaluation FCC ID: 2AACU-PD20

1. Client Information

Applicant: ShenZhen Link-Create Technology Co., Ltd.

Address: 6/F., 17 Building, Pingshan Industrial Park, Taoyuan Street, Nanshan,

Shenzhen, China

Manufacturer: ShenZhen Link-Create Technology Co., Ltd.

Address: 6/F., 17 Building, Pingshan Industrial Park, Taoyuan Street, Nanshan,

Shenzhen, China

2. General Description of EUT

EUT Name	:	MID				
Models No.	:	PD20, PD10-PD100, PD200-PD900, PA10-PA100, PX1-PA100,				
	-	PM10-PM100, PW10-PW100, AP10-AP100, SP1-SP100,				
		SX1-SX100, PH10-PH100				
Model	:	The different models are identical in schematic, structure and				
Difference		critical component, the only different is the appearance.				
		Operation Frequency: 802.11b/g/n(HT20): 2412MHz~24				
		802.11n(HT40): 2422MHz~2452MHz				
		Number of Channel:	802.11b/g/n(HT20):11 channels			
			802.11n(HT40): 7 channels			
		Out Power:	802.11b: 9.47 dBm			
			802.11g: 8.64 dBm			
Product			802.11n (HT20): 8.63 dBm			
Description			802.11n (HT40): 8.78 dBm			
		Antenna Gain:	0 dBi Printed Antenna			
		Modulation Type:	802.11b: DSSS (CCK, QPSK, BPSK)			
			802.11g: OFDM			
			802.11n: OFDM			
		Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps			
			802.11g:54/48/36/24/18/12/9/6 Mbps			
			802.11n:up to 150Mbps			
Power Supply	:					
		USB DC power from Host system.				
D D (-	DC Voltage supplied from Li-Polymer battery.				
Power Rating	:	· · · · · · · · · · · · · · · · · · ·				
		Output: DC 5V 2A				

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		DC 3.7V 3000mAh from Li-Polymer battery
	:	Please refer to the User's Manual
Port(S)		

Note

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



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MPE Calculations

1. FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies V05.

Appendix A: SAR Test Thresholds for 100MHz~6GHz and ≤50mm.

SAR can be exempted if the output power is less than the SAR exclusion (1)Threshold: For F=2450, and Distance=5mm, the output power is less than 10mW (10 dBm).

Please see the follow table:

Please see	tile lollow	table.				
MHz	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
2450	10	19	29	38	48	Tin Concret (in (1))
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	C.4.D. T.
1500	73	86	98	110	122	SAR Test Exclusion
1900	65	76	87	98	109	Threshold (mW)
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	

(2)The Antenna Distance please see the actual photo such bellow:





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2. Calculation:

EIRP= P+G

Where P=Conducted Output Power (dBm) G=Power Gain of the Antenna (dBi)

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802.11b/g/n(HT20)								
Test Mode	Conducted Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)				
802.11b	9.47	0	9.47	8.8512				
802.11g	8.64	0	8.64	7.3114				
802.11n(HT20)	8.63	0	8.63	7.2946				
802.11n(HT40)	8.78	0	8.78	7.5509				

3. Conclusion:

No SAR Evaluation required since Transmitter output power is bellow FCC threshold and IC standards.