



CTC Laboratories, Inc.

1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel: +86-755- 27521059 Fax: +86-755- 27521011 Http://www.sz-ctc.org.cn

Maximum Permissible Exposure Evaluation

FCC ID: 2AYQPPB08AC0

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b)

EUT Specification

Product Name:	Face Recognition & Temperature Terminal
Trade Mark:	/
Model/Type reference:	PB-08AC0
Listed Model(s):	PB-08A00
Model Difference:	The difference between models is touch functionality, with the PB-08AC0 supporting capacitive touch functionality and the PB-08A00 having no touch functionality.
Frequency band (Operating)	☐ BT: 2.402GHz ~ 2.480GHz ☒ BLE: 2.402GHz ~ 2.480GHz ☒ WLAN: 2.412GHz ~ 2.462GHz ☐ RLAN: 5.180GHz ~ 5.240GHz ☐ RLAN: 5.745GHz ~ 5.825GHz
Device category	☐ Portable (<5mm separation) ☐ Mobile (>20cm separation) ☒ fixed (>20cm separation) ☐ Others
Exposure classification	☐ Occupational/Controlled exposure (S=5mW/cm ²) ☒ General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	☒ Single antenna ☐ Multiple antenna ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity
Antenna gain (Max)	1.5dBi
Evaluation applied	☒ MPE Evaluation ☐ SAR Evaluation

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
(A) Limits for Occupational/Control Exposures				
300-1500	--	--	F/300	6
1500-100000	--	--	5	6
(B) Limits for General Population/Uncontrol Exposures				
300-1500	--	--	F/1500	6
1500-100000	--	--	1	30

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1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

Fax: (86)755-27521011

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Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = Power density in mW/cm^2

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d the limit of MPE $1mW/cm^2$. If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Measurement Result

BR/ EDR							
Type	Channel frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm^2)	Power density Limits (mW/cm^2)
GFSK	2402	4.95	5±1	6	1.5	0.00112	1
	2441	4.62	4±1	5	1.5	0.00089	1
	2480	4.02	4±1	5	1.5	0.00089	1
π /4-DQPSK	2402	2.79	3±1	4	1.5	0.00071	1
	2441	2.40	2±1	3	1.5	0.00056	1
	2480	2.04	2±1	3	1.5	0.00056	1
8-DPSK	2402	3.15	2±1	3	1.5	0.00056	1
	2441	1.70	2±1	3	1.5	0.00056	1
	2480	1.41	1±1	2	1.5	0.00045	1



Type	Channel frequency (MHz)	Max. Measured Power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm ²)	Power density Limits (mW/cm ²)
802.11b	2412	18.57	18±1	19	1.5	0.02232	1
	2437	18.56	18±1	19	1.5	0.02232	1
	2462	18.37	18±1	19	1.5	0.02232	1
802.11g	2412	21.19	21±1	22	1.5	0.04454	1
	2437	21.28	21±1	22	1.5	0.04454	1
	2462	21.14	21±1	22	1.5	0.04454	1
802.11n(HT20)	2412	20.49	20±1	21	1.5	0.03538	1
	2437	20.47	20±1	21	1.5	0.03538	1
	2462	20.31	20±1	21	1.5	0.03538	1

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

*****THE END*****