



Report No.: FCS202408296W03

FCC RF Exposure

EUT Description:Smart Face Recognition Terminal

ModelNo.:CX7, FacePass 7 Pro

FCC ID: 2BKHH-CX7

Equipment type: Fixed equipment

Test procedures according to the technical standards: KDB 447498 D01 V06 and FCC 2.1091.

1. Limits

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)

Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)	
	(A) Limit	ts for Occupational/Controlled E	xposures		
0.3-3.0	614	1.63	*(100)	6	
3.0–30	1842/f	4.89/f	*(900/f ²)	6	
30–300	61.4	0.163	1.0	6	
300–1500			f/300	6	
1500-100,000			5	6	
	(B) Limits fo	r General Population/Uncontroll	led Exposure		
0.3-1.34	614	1.63	*(100)	30	
1.34-30	824/f	2.19/f	*(180/f ²)	30	
30–300	27.5	0.073	0.2	30	
300–1500			f/1500	30	
1500-100,000			1.0	30	

F = frequency in MHz

Formula: Pd = (Pout*G)/(4* π *r²)

Where:

 $Pd = power density in mW/cm^2$,

Pout = output power to antenna in mW;

G = gain of antenna in linear scale,

 $\pi = 3.14$;

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

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

2. Test Procedure

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





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3. Test Result of RF Exposure Evaluation

WIFI

	Output	Max	Antenna	Power	Limit	Result
	power(dBm)	tune-up(mW)	Gain(dBi)	Density	(mW/cm ²)	
				at R=20cm		
				(mW/cm²)		
802.11b	20.26	106.17	4.66	0.06171	1.0	Pass
802.11g	14.81	30.27	4.66	0.01759	1.0	Pass
802.11n20	15.25	33.50	4.66	0.01947	1.0	Pass

WIFI+RFID=0.06171+0.004/1850=0.06171<1

Conclusion: No SAR is required