FCC RF EXPOSURE REPORT

Jiangmen Dascom Computer Peripherals Co.,Ltd.

Label & Barcode Printer

Model Number: DL-210

Additional Model: DL-310

FCC ID: Z7ODL2101

Prepared for : Jiangmen Dascom Computer Peripherals Co.,Ltd.
No 399,Jin Xing Road,Jiang Hai District, Jiangmen City Guang Dong Province China

Prepared By :EST Technology Co., Ltd.
Santun(guantai Road), Houjie Town, DongGuan City,GuangDong, China.

Tel: 86-769-83081888-808

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Maximum Permissible Exposure

1、Applicable Standard

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

(a)、Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm2)	Averaging Times｜E｜2，｜H｜2 or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-10000			5	6

(b)、Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm2)	Averaging Times｜E｜2，｜H｜2 or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-10000			1.o	30

Note: f=frequency in MHz; *Plane-wave equivalent power density

2、MPE Calculation Method

E (V/m) = $(30*P*G)^{0.5}/d$ Power Density: Pd (W/m2) = $E^2/377$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$Pd = (30*P*G) / (377*d^2)$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

3、Calculated Result and Limit

Mode	Frequency (MHz)	output power (dBm)	output power (mW)	Target power （dBm）	Antenna gain		Power Density (S) (mW /cm2)	Limited of Power Density (S) (mW /cm2)	Test Result
					(dBi)	(Linear)			
IEEE 802.11b	2412	11.98	15.78	11±1	3	1.99	0.00629	1	Compiles
	2437	11.56	14.32	11±1	3	1.99	0.00629	1	Compiles
	2462	11.27	13.40	11±1	3	1.99	0.00629	1	Compiles
IEEE 802.11g	2412	2.60	1.82	2±1	3	1.99	0.00079	1	Compiles
	2437	1.05	1.27	1±1	3	1.99	0.00063	1	Compiles
	2462	3.08	2.03	3±1	3	1.99	0.00079	1	Compiles