

RF EXPOSURE REPORT

for

Hypertechnologie Ciara Inc. Ciara Technologies Inc

Model Number: RPL819,CRIUS CO100-G1,CRIUS
CO100-GY,CRIUS CO105-G1,CRIUS CO110-G1,CRIUS
CO115-G1,CRIUS CO120-G1,CRIUS CO125-G1,CRIUS
CO200-G1,CRIUS CO205-G1,CRIUS CO210-G1,CRIUS
CO215-G1,CRIUS CO220-G1,CRIUS CO225-G1,CRIUS
CO300-G1,CRIUS CO305-G1,CRIUS CO310-G1,CRIUS
CO315-G1,CRIUS CO320-G1,CRIUS CO325-G1

FCC ID: 2BDS2-RPL819

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1. RF EXPOSURE EVALUATION

Test Result of RF Exposure Evaluation

According to the KDB-447498 D01 V06, FCC 47CFR § 2.1093 the following RF exposure evaluation shall to demonstrate RF exposure compliance.

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance,mm)]

* [√ f(GHz)]

2.4G

	Antenna port	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Maximum Conducted Output Power (mW)	Antenna Gain (dBi)	Separation distance mm	RF exposure	Total RF exposure
802.11b	ANT1	8±1.0	9	7.94	1.77(2.5dBi)	5	2.466	/
	ANT2	8±1.0	9	7.94	1.77(2.5dBi)		2.466	
802.11g	ANT1	8±1.0	9	7.94	1.77(2.5dBi)	5	2.466	/
	ANT2	8±1.0	9	7.94	1.77(2.5dBi)		2.466	
802.11n 20MHz	ANT1	6±1.0	7	5.01	3.54(5.5dBi)	5	1.556	2.792
	ANT2	5±1.0	6	3.98	3.54(5.5dBi)		1.236	
802.11n 40MHz	ANT1	6±1.0	7	5.01	3.54(5.5dBi)	5	1.556	2.792
	ANT2	5±1.0	6	3.98	3.54(5.5dBi)		1.236	

5180-5240MHz

	Antenna port	Target power W/ tolerance (dBm)	Max tune up power tolerance (dBm)	Maximum Conducted Output Power (mW)	Antenna Gain (dBi)	Separation distance mm	RF exposure	Total RF exposure
802.11a	ANT1	7±1.0	8	6.30	1.77(2.5dBi)	5	2.872	/
	ANT2	6±1.0	7	5.01	1.77(2.5dBi)		2.281	
802.11n 20MHz	ANT1	4±1.0	5	3.16	3.54(5.5dBi)	5	1.439	2.878
	ANT2	4±1.0	5	3.16	3.54(5.5dBi)		1.439	
802.11n 40MHz	ANT1	4±1.0	5	3.16	3.54(5.5dBi)	5	1.439	2.878
	ANT2	4±1.0	5	3.16	3.54(5.5dBi)		1.439	
802.11ac 20MHz	ANT1	4±1.0	5	3.16	3.54(5.5dBi)	5	1.439	2.878
	ANT2	4±1.0	5	3.16	3.54(5.5dBi)		1.439	
802.11ac 40MHz	ANT1	4±1.0	5	3.16	3.54(5.5dBi)	5	1.439	2.878
	ANT2	4±1.0	5	3.16	3.54(5.5dBi)		1.439	
802.11ac 80MHz	ANT1	4±1.0	5	3.16	3.54(5.5dBi)	5	1.439	2.878
	ANT2	4±1.0	5	3.16	3.54(5.5dBi)		1.439	

The Max RF exposure is 0.8.

Threshold at which no SAR required is ≤ 3.0 for 1-g SAR, Separation distance is 5mm.

For BT mode

-- The max. field strength of fundamental frequency is 85.00dB μ v/m.

EIRP[dBm] = E[dB μ V/m] - 95.2 = 85.00 - 95.2 = -10.2dBm,

conducted power = EIRP - ANT gain = -10.2 - (2.5) = -12.7 dBm.

The max. tune-up level is -11.7dBm(0.06mw),

MPE=0.06 mw / 5mm * $\sqrt{(2.402\text{GHz})}$ = 0.02 < 7.5 (extremity sar), sar exempt.

Conclusion:

So no SAR is required.