

RF EXPOSURE REPORT

for

Hypertechnologie Ciara Inc. Ciara Technologies Inc

Model Number: IDN535,CRIUS N100-G1,CRIUS
N100-GY,CRIUS N105-G1,CRIUS N110-G1,CRIUS
N115-G1,CRIUS N120-G1,CRIUS N125-G1,CRIUS
N200-G1,CRIUS N205-G1,CRIUS N210-G1,CRIUS
N215-G1,CRIUS N220-G1,CRIUS N225-G1,CRIUS
N300-G1,CRIUS N305-G1,CRIUS N310-G1,CRIUS
N315-G1,CRIUS N320-G1,CRIUS N325-G1

FCC ID: 2BDS2-IDN535

Prepared for : Hypertechnologie Ciara Inc. Ciara Technologies Inc
Address : 5555, Rue Cypihot, Saint-Laurent, QC, H4S 1R3

Prepared by : Shenzhen ZKT Technology Co., Ltd.
1/F, No. 101, Building B, No. 6, Tangwei Community Industrial Avenue,
Address : Fuhai Street, Bao'an District, Shenzhen, China

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)]

* [$\sqrt{f(\text{GHz})}$]

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 82.15dBuV/m.

$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 82.15 - 95.2 = -13.05dBm,$

conducted power = $EIRP - ANT\ gain = -13.05 - (2.5) = -15.55\ dBm.$

The max. tune-up level is -14.55dBm(0.035mw),

$MPE = 0.035\ mw / 5mm * \sqrt{(2.402GHz)} = 0.01 < 7.5\ (extremity\ sar),\ sar\ exempt.$

Conclusion:

So no SAR is required.