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www.e-ctk.com

RF EXPOSURE EVALUATION

Applicant : Center Network Solution

Applicant Address : Suwon industrial, District2, 990-1,
Gosaek-dong, Gwonsun-gu, Suwon-si,
Gyeonggi-do, Korea

Kind of Product : NetweeN

Equipment model name : C340T

Antenna type : Ant0 : Dipole antenna Gain 3 dBi
Ant1 : Dipole antenna Gain 3 dBi

Frequency Range : 2400 – 2483.5 MHz

Number of channels : 802.11b/g/n(20 MHz) : 11
802.11n(40 MHz) : 7



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** MPE Calculations **

No Evaluation Required if power is below this threshold. ($60 / f(\text{GHz})$)

- 802.11b/g/n(20 MHz)

Frequency (MHz)		mW
Low	2412	24.37
Middle	2437	
High	2462	

- 802.11n(40 MHz)

Frequency (MHz)		mW
Low	2422	24.47
Middle	2437	
High	2452	

- 802.11n(20 MHz, Ant0 + Ant1)

Frequency (MHz)		mW
Low	2412	24.37
Middle	2437	
High	2462	

- 802.11n(40 MHz, Ant0 + Ant1)

Frequency (MHz)		mW
Low	2422	24.47
Middle	2437	
High	2452	

For multiple co-located transmitters operating simultaneously the total power density can be calculated by summing the Power * Gain product (in linear units) of each transmitter.

LIMITS

1.0 mW/cm²



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RESULTS

Mode	EIRP (dBm)	EIRP (mW)	MPE Distance (cm)	Power Density (mW/cm ²)	Results
802.11b/g/n(20MHz)	18.67	73.621	20	0.07680	Complies
802.11n(40 MHz)	18.39	69.024	20	0.07201	Complies
802.11n Ant0+ Ant1(20 MHz)	21.14	130.017	20	0.13564	Complies
802.11n Ant0+ Ant1(40 MHz)	20.94	124.165	20	0.12953	Complies

$$S = (P1 * G1) / (4R^2 * \pi)$$
$$= (0.21) / (4 * 20^2 * \pi)$$

S = Power Density in mW/cm²
Px = Power of transmitter x in mW
Gx = Numeric gain of antenna x
R = distance in cm