

## MPE CALCULATION

FCC ID: N6C-SDMAN2

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RF Exposure Requirements:	47 CFR §1. 1307(b)
RF Radiation Exposure Limits:	47 CFR §1. 1310
RF Radiation Exposure Guidelines:	FCC OST/OET Bulletin Number 65
EUT Frequency Band:	2412-2462MHz/5180-5825MHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500 - 100,000 MHz
Power Density Limit:	1 mW / cm <sup>2</sup>

Equation:  $S = PG / 4\pi R^2$  or  $R = \sqrt{PG / 4\pi S}$   
Where, S = Power Density  
P = Power Input to Antenna  
G = Antenna Gain  
R = distance to the center of radiated antenna

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Prediction distance 20cm

(WLAN 2.4GHz): Power = 32.93 mW, Antenna Gain = 2 dBi (2.4GHz), Power density = 0.01310 mW/cm<sup>2</sup>

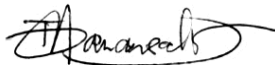
(WLAN 5GHz): Power = 28.27 mW, Antenna Gain = 2.5 dBi (2.4GHz), Power density = 0.01406 mW/cm<sup>2</sup>

Mode	Prediction Distance (cm)	Target power (mW)	Max. Antenna Gain (dBi)	Power Density (mW/cm <sup>2</sup> )
WLAN 2.4GHz	20	32.93	2.00	0.01310
WLAN 5GHz	20	28.27	2.50	0.01406

**Note: 5GHz radio does not transmit simultaneously. Even taking into account the tolerance, this device can be satisfied with the limits.**

The Above Result had shown that the Device complied with MPE requirement.

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Date: March 16, 2016