

## 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>

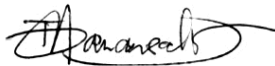
(WLAN 5GHz): Power = 28.27 mW, Antenna Gain = 2.5 dBi (2.4GHz), Power density = 0.01406 mW/cm<sup>2</sup>

| 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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