

# MPE CALCULATION

FCC ID: ZPTTITANHDX

|   |                                |
|---|--------------------------------|
| 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:   | 5160~5240, 5745 – 5825 MHz     |
| Limits for General Population/Uncontrolled Exposure in the band of: | 1.5 – 100 GHz                  |
| 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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5.8 GHz, Power = 13.7 dBm , Antenna Gain = 5 dBi, Distance = 20 cm  
**S = 0.0147 mW/cm<sup>2</sup>**

5.1GHz, Power = 16.5 dBm , Antenna Gain = 5 dBi, Distance = 20 cm  
**S = 0.0281 mW/cm<sup>2</sup>**

The Above Result had shown that Device complied with 1 mW/cm<sup>2</sup> Power density requirement for distance of 20cm.

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