

# MPE CALCULATION

**For Exalt Communication, Inc– 5GHz Radio Module**

**FCC ID: TTM-105P25N**

|                                                                            |                                |
|----------------------------------------------------------------------------|--------------------------------|
| <b>RF Exposure Requirements:</b>                                           | 47 CFR §1.1307(b)              |
| <b>RF Radiation Exposure Limits:</b>                                       | 47 CFR §1.1310                 |
| <b>RF Radiation Exposure Guidelines:</b>                                   | FCC OST/OET Bulletin Number 65 |
| <b>EUT Frequency Band:</b>                                                 | 5745 – 5825 MHz                |
| <b>Limits for General Population/Uncontrolled Exposure in the band of:</b> | 1.5 – 100 GHz                  |
| <b>Power Density Limit:</b>                                                | 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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## Point to point Link

5.8 GHz, Power = 24.3 dBm, Antenna Gain = 37.9dBi,  
R= 363.385cm

## Result

The Above Result had shown that Device complied with 1mW/cm<sup>2</sup> Power density requirement for distance with minimum distance of 400cm.

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Date : Jun 16, 2010