

**MPE CALCULATION**  
**FCC ID: PQC-MX40WL3**

<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>	2412 - 2462 MHz; 5180 – 5320 MHz, 5500 – 5700MHz, 5745 - 5825MHz
<b>Limits for General Population/Uncontrolled Exposure in the band of:</b>	1500 - 100,000 MHz
<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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Prediction distance 20cm

(UNII Band): Power = 13.92 dBm, Antenna Gain = 4.4 dBi, Power density = 0.0135 mW/ cm<sup>2</sup>

(2.4GHz DTS Band): Power = 22.38dBm, Antenna Gain = 4.2 dBi, Power density = 0.0905 mW/ cm<sup>2</sup>

The maximum power density is 0.0905 mW/ cm<sup>2</sup>, which is less than 1 mW/ cm<sup>2</sup>

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

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Date: May 7th, 2015