

# MPE CALCULATION

**For Amimon WHDI Module; Model: AMN12100**

**FCC ID: VQSAMN12100R44**

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:	5180~5220, 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 = 12.1 dBm , Antenna Gain = 1.9 dBi, Distance = 20 cm  
S = 0.005 mW/cm<sup>2</sup>

5.1GHz, Power = 8.5 dBm , Antenna Gain = 1.9 dBi, Distance = 20 cm  
S = 0.0022 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.

Completed By : Kent Kim

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