

MPE CALCULATION

For AIRAYA Corp–Wireless Bridge, Model: WirelessGRID-300

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:	4945MHz ~4985MHzMHz
Limits for General Population/Uncontrolled Exposure in the band of:	1500MHz – 100000MHz
Power Density Limit:	1 mW/ cm ² ;

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

Power = 30.24dBm, Typical Antenna Gain = 29dBi, MPE limit= 1mW/cm²

By using equation $R = \sqrt{PG / 4\pi S}$

R= 50cm

Result

The Above Result had shown that the minimum separation distance in order to meet MPE requirement is 50cm.

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