

MPE CALCULATION

For PAXAR – 802.11b/g Module; Part Number: 126720

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: 2412 – 2462 MHz

EUT Maximum Measured Conducted Power: 20.2 dBm (0.1047 watt)

EUT Antenna Gain: 2.2 dBi (1.66 numeric)

Limits for General Population/Uncontrolled Exposure: 1500 – 100,000 MHz

Power Density Limit: 1.0 mW/cm² or 10 W/m²

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

$$S = 0.1047W * 1.66 / 4 * 3.14 * (0.2m)^2 = 0.1738W / 0.503m^2 = 0.3458 W/m^2 (0.03458 mW/cm^2)$$

EUT comply with 20cm distance exposure.