

Maximum Permissive Exposure

FCC ID: BEJWN8122E1

Product Name: Wi-Fi module

Model No: WN8122E1

1. According to FCC CFR 47 §1.1310, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Table 1 Limits for Maximum Permissible Exposure

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Average Time (Minutes) |
|---|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| (A) Limits For Occupational / Control Exposures (f = frequency) | | | | |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | ... | ... | f/300 | 6 |
| 1500-100,000 | ... | ... | 5.0 | 6 |
| (B) Limits For General Population / Uncontrolled Exposure (f = frequency) | | | | |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | ... | ... | f/1500 | 30 |
| 1500-100,000 | ... | ... | 1.0 | 30 |

Futaba Corporation declares that the product described above has been evaluated and found to comply with the RF exposure limits for humans, as specified based on ANSI/FCC recommendation.

Based on safety distance (r) **20cm**, the antenna gain (G) is **1.153Numerical**, and the highest power output (P) is **84.723mW**, the power density (S) is **0.019434mW/cm²**

RF Exposure Calculations:

$$S = (P * G) / (4 * \pi * r^2) \text{ or } r = \sqrt{(P * G) / (4 * \pi * S)}$$

Where :

| | |
|---|--|
| Based on safety distance (r)= | 20 cm |
| Highest Power Output (P)= | 19.28 dBm = 84.723 mW |
| Antenna Gain (G)= | 0.62 dBi = 1.153 Numerical |
| MPE (S) = (P*G) / (4*π*r ²) = | = (84.723*1.153)/(4*π*20²)= 0.019434 mW/cm² |

Sincerely Yours,



Mr. Ben Cheng
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