

Declaration of Compliance

FCC ID : AZP-FDP03

Product Name : 2.4GHz Embedded Type Wireless Modem with **chip antenna**

Model Number : FDP03

For chip antenna:

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 20cm, the antenna gain is **0dBi**, and the power output is **3.4mW**, the power density is **0.00067mW/cm²**.

RF Exposure Calculations:

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

Where S = Power Density in mW/cm²

$$P = 5.32\text{dBm} = 3.4\text{mW}$$

$$G = 0\text{dBi} = 1.0 \text{ Numerical}$$

$$r = 20\text{cm}$$

$$S = 3.4 * 1 / 4 * \pi * 20^2 = 3.4 / 5026.56 = 0.00067\text{mW/cm}^2$$

$$\text{Limit MPE} < 1\text{mW/cm}^2$$

For Pedestal:

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 20cm, the antenna gain is **2.14dBi**, and the power output is **3.4mW**, the power density is **0.0011mW/cm²**.

RF Exposure Calculations:

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

Where S = Power Density in mW/cm²

$$P = 5.32\text{dBm} = 3.4\text{mW}$$

$$G = 2.14\text{dBi} = 1.64 \text{ Numerical}$$

$$r = 20\text{cm}$$

$$S = 3.4 * 1.64 / 4 * \pi * 20^2 = 5.576 / 5026.56 = 0.0011\text{mW/cm}^2$$

Limit MPE < 1mW/cm²

Result: Passed

Signature:



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