

# Declaration of Compliance

FCC ID: BEJ9QK-WN8522D2  
Product Name: WLAN Adapter Card  
Model No: WN8522D2

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 for 2400 to 2483.5MHz is 1.35dBi= 1.36  
5150 to 5850MHz is 1.89dBi= 1.55  
5725 to 5850MHz is 1.62dBi = 1.45

The maximum power in **2400 to 2483.5MHz** is 21.68dBm=147.23mW

RF Exposure Calculations:

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

$$S = 147.23 * 1.36 / 4 * \pi * 20^2 = 0.0399 \text{mW/cm}^2$$

The maximum power in **5150 to 5250MHz** is 13.37dBm=21.73mW

RF Exposure Calculations:

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

$$S = 21.73 * 1.55 / 4 * \pi * 20^2 = 0.007 \text{mW/cm}^2$$

The maximum power in **5725 to 5850MHz** is 24.24dBm=265.46mW

RF Exposure Calculations:

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

$$S = 265.43 * 1.45 / 4 * \pi * 20^2 = 0.0077 \text{mW/cm}^2$$

Sincerely Yours,



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Jae Cheon Lee / General Manager  
LG Electronics USA