

Declaration of Compliance

FCC ID: BEJ9QK-DMR3

IC: 2703H-DMR3

Product Name: Wireless Adapter Card

Model No: R3

LG Electronics Inc. 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.

For WLAN(2.4GHz)

Based on safety distance 20cm, the antenna gain is 1.0dBi, and the power output is 18.243mW, the power density is 0.0142mW/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=17.54dBm=56.754mw

G =1.0dBi=1.259Numerical

r = 20cm

$$S = 56.754 * 1.259 / 4 * \pi * 20^2 = 0.0142 \text{ mW/cm}^2$$

For WLAN(5.2GHz):

Based on safety distance 20cm, the antenna gain is 3.0dBi, and the power output is 23.878mW, the power density is 0.0095mW/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 = 13.78dBm= 23.878mW

G = 3.0dBi =1.995Numerical

r = 20cm

$$S = 23.878 * 1.995 / 4 * \pi * 20^2 = 0.0095 \text{ mW/cm}^2$$

For WLAN(5.8GHz):

Based on safety distance 20cm, the antenna gain is 4.6dBi, and the power output is 35.584mW, the power density is 0.01869mW/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 = 15.13dBm = 32.584mW

G = 4.6dBi = 2.884 Numerical

r = 20cm

$$S = 32.584 * 2.884 / 4 * \pi * 20^2 = 0.01869 \text{ mW/cm}^2$$

Sincerely Yours,



Mr. Ben Cheng

Manager

AUDIX Technology Corporation